European Congress of Radiology

# ECR 2015

*Vienna*

March 4–8

## Preliminary Programme

EUROPEAN SOCIETY OF RADIOLOGY

ECR 2015 will be a green meeting designed to meet environmental sustainability criteria set by the *Österreichisches Umweltzeichen (Austria's national eco-friendly certificate).*

## Coordination

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# Table of Contents

## General Information


ECR 2015 Timeline . . . . . 4
Registration Information . . . . . 5
Timetable . . . . . 6
Foreword by the ESR President . . . . . 8
Foreword by the ECR President . . . . . 10
ESR Dignitaries . . . . . 16
East meets west at ECR 2015 . . . . . 22
Streamlined structure brings clarity to education at ECR 2015 . . . . . 40
ESR Executive Council . . . . . 114
ECR 2015 Committees . . . . . 115
ECR 2015 Topic Coordinators . . . . . 119


## Scientific Programme


Headline Sessions . . . . . 14
ESR/EFRS meets Sessions . . . . . 19
New Horizons Sessions . . . . . 25
State of the Art Symposia . . . . . 27
Special Focus Sessions . . . . . 29
Professional Challenges Sessions . . . . . 33
Multidisciplinary Sessions . . . . . 37
European Excellence in Education ($E^3$) . . . . . 39
- Rising Stars Programme . . . . . 43
- The Beauty of Basic Knowledge . . . . . 47
- European Diploma Prep Sessions . . . . . 49
- ECR Academies . . . . . 51
- ECR Master Classes . . . . . 59

Mini Course . . . . . 63
Pros & Cons Session . . . . . 65
Multimedia Classroom . . . . . 67
Refresher Courses . . . . . 69
- Abdominal and Gastrointestinal . . . . . 70
- Breast . . . . . 72
- Cardiac . . . . . 74
- Chest . . . . . 76
- Computer Applications . . . . . 78
- Molecular Imaging . . . . . 79
- Genitourinary . . . . . 80
- Head and Neck . . . . . 82
- Interventional Radiology . . . . . 83
- Musculoskeletal . . . . . 85
- Neuro . . . . . 87
- Paediatric . . . . . 89
- Physics in Radiology . . . . . 90
- Radiographers . . . . . 91
- Vascular . . . . . 93
- Oncologic Imaging . . . . . 94
- Emergency Radiology . . . . . 95

Joint Sessions . . . . . 97


## Industry Programme


Satellite Symposia . . . . . 105
Industry Workshops . . . . . 111


Please note that sessions are marked with a logo to indicate their classification according to the European Training Curriculum.

LEVEL I First three years of training

LEVEL II Fourth and fifth years of training (general radiologist standard)

LEVEL III Subspecialty training standard

# **ECR 2015** Timeline

| | |
|---|---|
| From August 28, 2014 | **Online Registration Open** |
| August 2014 – January 8, 2015 | **Poster Upload to EPOS™ (for Accepted Exhibits)** |
| November 10 – December 15, 2014 | **Late-Breaking Clinical Trials Submission** |
| December 2014 | **Notification of Paper Abstract Acceptance** (Oral Presentations) |
| **March 4–8, 2015** | **ECR 2015**<br>**NEW: Wednesday to Sunday** |

## Congress Venue

Austria Center Vienna
Bruno Kreisky Platz 1
1220 Vienna, Austria

## Congress Language

English

## CME Accreditation

Each ECR delegate has access to confirmation of all activities attended (CME confirmation and record of attendance). The maximum number of CME points of scientific activity attendance is 40. Please note that this number may differ from the maximum number of credits your national jurisdiction approves for your continuous medical education.

For further information, please contact the ECR CME Support at cme@myESR.org

## Facts & Figures 2014

- 23,484 Participants
- 3,474 registered ECR Live viewers
- 130 Countries
- 302 Scientific and Educational Sessions
- 3,000 Scientific and Educational Exhibits
- 1,070 Scientific Papers
- 780 Invited Lectures
- Fully Electronic Scientific Exhibition
- Industrial Exhibition
  - 305 exhibitors from 43 countries
  - 26,000 $m^2$

## Scientific and Educational Programme

3 Honorary Lectures
4 ESR meets Sessions
1 EFRS meets Session
2 Image Interpretation Quizzes
3 New Horizons Sessions
3 State of the Art Symposia
16 Special Focus Sessions
9 Professional Challenges Sessions
3 Multidisciplinary Sessions
NEW: $E^3$ – European Excellence in Education
Rising Stars Programme for Residents & Students
Case-Based Diagnosis Training
Radiology Trainees Forum Programme
Basic Sessions
10 The Beauty of Basic Knowledge Sessions
6 European Diploma Prep Sessions
38 ECR Academies Sessions
14 ECR Master Classes
NEW: 1 Pros & Cons Session
1 Mini Course (4 Sessions)
72 Refresher Courses
4 EuroSafe Imaging Sessions
1 ESOR Session
1 EDiR Session
1 EFOMP Workshop
6 Joint Sessions with related societies (EFSUMB, EORTC, ERS, ESMRMB, ESTRO)
3 EIBIR Sessions
2 MIR @ ECR Sessions
8 Multimedia Classroom Sessions
2 Patient Advisory Group for Medical Imaging Sessions
1 ESR Research Education Working Group Session

# **Registration** Information

## **Registration Fees** (including 10% VAT):

| | Middle Fee | Late Fee |
|---|---|---|
| **Full Fee Non-Member** | € 890 | € 995 |
| **ESR Full Member** | € 550 | € 695 |
| **ESR Allied Science Member** | € 670 | € 895 |
| **ESR Corresponding Member** | € 670 | € 895 |
| **Resident Non-Member** | € 435 | € 590 |
| **Resident Member** | € 365 | € 490 |
| **Hospital Manager** | € 680 | € 900 |
| **Nurse** | € 310 | € 450 |
| **Radiographer Non-Member** | € 410 | € 550 |
| **Radiographer Member** | € 310 | € 450 |
| **Participate from home*** | € 330 | € 330 |
| **Oral Presenter Member** | € 250 | – |
| **Single Day Ticket** | onsite only | € 305 |
| **Student@ECR**** | € 40 | € 40 |

**Registration as Member**

In order to qualify for reduced member registration fees for ECR 2015, ESR Membership for the year 2014 must have been settled and approved by August 27, 2014. All other participants must register as non-members.

***Participate from home**

The registration category 'Participate from home' has been created for individuals who are NOT able to attend the congress in person but would still like their EPOS poster to be shown during and after the congress.

****Students** under the age of 30, who do not yet have an academic degree, can register for just € 40.

**ECR Registration Deadlines**

Middle Fee: November 13 – December 17, 2014
Late Fee: from December 18, 2014 onwards

**Cancellation Insurance**

The ESR offers all pre-registered participants the option of taking out a cancellation policy with our partner 'Europäische Reiseversicherung'. The insurance fee depends on the ticket selected and can only be booked during online registration. After completion of registration and/or payment, insurance can no longer be selected. The ESR itself will not refund any registration fees.

For further information please visit www.myESR.org/registration2015 or contact registration@myESR.org

# Timetable

| | 08:30 9:00 09:30 10:00 | 10:30 11:00 11:30 12:00 | 12:15 13:00 13:30 14:00 |
|---|---|---|---|
| Wednesday, March 4 | $E^3$ - ECR Academy<br>**$E^3$ 121**<br>Special Focus Sessions<br>**SF 1a, SF 1b, SF 1c**<br>Refresher Courses **(100)**<br>**1** | $E^3$ - ECR Academy<br>**$E^3$ 221**<br>Scientific Sessions **(200)**<br>**Siemens Healthcare and Bayer HealthCare Joint Symposium - Breast Care Day**<br>**2** | $E^3$ - The Beauty of Basic Knowledge<br>**$E^3$ 24A, $E^3$ 25A**<br>**Siemens Healthcare and Bayer HealthCare Joint Symposium - Breast Care Day**<br>**SuperSonic Imagine Symposium**<br>**Bayer HealthCare Symposium** |
| Thursday, March 5 | $E^3$ - ECR Academies<br>**$E^3$ 518, $E^3$ 519, $E^3$ 520, $E^3$ 521**<br>$E^3$ - Rising Stars Programme<br>**Basic Session 1**<br>State of the Art Symposium<br>**SA 5**<br>Special Focus Session<br>**SF 5**<br>Professional Challenges Sessions<br>**PC 5a, PC 5b**<br>Refresher Courses **(500)**<br>Joint Course: ESR/RSNA<br>**MC 528**<br>Joint Session: ESR/EFSUMB<br>**5** | $E^3$ - ECR Academies<br>**$E^3$ 620, $E^3$ 621**<br>$E^3$ - Rising Stars Programme<br>**Basic Session 2**<br>Scientific Sessions **(600)**<br>Multimedia Classroom **MM 6**<br>Joint Course: ESR/RSNA<br>**MC 628**<br>**6** | **Josef Lissner**<br>**Honorary Lecture**<br>*James A. Brink; US*<br>$E^3$ - The Beauty of Basic Knowledge<br>**$E^3$ 24B, $E^3$ 25B**<br>**Siemens Healthcare Symposia**<br>**Bracco Symposium**<br>**Bayer HealthCare Symposium**<br>**Toshiba Medical Systems Symposium**<br>**GE Healthcare Symposium**<br>**RTF Quiz** |
| Friday, March 6 | $E^3$ - ECR Academies<br>**$E^3$ 918, $E^3$ 919, $E^3$ 921**<br>$E^3$ - ECR Master Classes<br>**$E^3$ 926a, $E^3$ 926b, $E^3$ 926c, $E^3$ 926d**<br>$E^3$ - Rising Stars Programme<br>**Student Session 3**<br>New Horizon Session<br>**NH 9**<br>Special Focus Sessions<br>**SF 9a, SF 9b**<br>Professional Challenges Session<br>**PC 9**<br>Multidisciplinary Session<br>**MS 9**<br>Refresher Courses **(900)**<br>ESR Research and Training Working Group Session<br>Joint Session: ESR/EFOMP<br>**9** | **ESR meets Germany**<br>$E^3$ - ECR Academies<br>**$E^3$ 1020, $E^3$ 1021**<br>$E^3$ - Rising Stars Programme<br>**Student Session 4**<br>Scientific Sessions **(1000)**<br>Multimedia Classroom **MM 10**<br>**EIBIR** Session<br>Joint Session: ESR/EFOMP<br>**10** | **Wilhelm Conrad Röntgen**<br>**Honorary Lecture**<br>*Gerald Antoch; DE*<br>$E^3$ - The Beauty of Basic Knowledge<br>**$E^3$ 24C, $E^3$ 25C**<br>MIR @ ECR<br>**Toshiba Medical Systems Symposia**<br>**Samsung Symposium**<br>**Philips Symposium**<br>**Hitachi Medical Systems Symposium**<br>**Bracco Symposium**<br>**Bayer HealthCare and Siemens Healthcare Joint Symposium**<br>**Guerbet Symposium**<br>**GE Healthcare Symposium** |
| Saturday, March 7 | $E^3$ - ECR Academies<br>**$E^3$ 1318, $E^3$ 1321, $E^3$ 1322, $E^3$ 1323**<br>$E^3$ - ECR Master Class<br>**$E^3$ 1326**<br>$E^3$ - Rising Stars Programme<br>**Basic Session 4**<br>Refresher Courses **(1300)**<br>Joint Session: ESR/EORTC<br>**13** | **ESR meets the Republic of Korea**<br>$E^3$ - ECR Academies<br>**$E^3$ 1422, $E^3$ 1423**<br>$E^3$ - Rising Stars Programme<br>**Basic Session 5**<br>Scientific Sessions **(1400)**<br>Multimedia Classroom **MM 14**<br>ESR Patient Advisory Group Session<br>RTF Highlighted Lectures<br>**14** | **Nikola Tesla**<br>**Honorary Lecture**<br>*Anne G. Osborn; US*<br>**Junior Image Interpretation Quiz**<br>$E^3$ - The Beauty of Basic Knowledge<br>**$E^3$ 24D, $E^3$ 25D**<br>**GE Healthcare Symposium**<br>**Bracco Symposium**<br>**Philips Symposia** |
| Sunday, March 8 | $E^3$ - ECR Academies<br>**$E^3$ 1721, $E^3$ 1722**<br>$E^3$ - ECR Master Class<br>**$E^3$ 1726**<br>$E^3$ - Rising Stars Programme<br>**Basic Session 6**<br>New Horizon Session<br>**NH 17**<br>Special Focus Sessions<br>**SF 17a, SF 17b, SF 17c**<br>Refresher Courses **(1700)**<br>**EDiR** Session<br>Joint Session: ESR/ERS<br>**17** | **ESR meets Turkey**<br>$E^3$ - ECR Academies<br>**$E^3$ 1821, $E^3$ 1823**<br>Scientific Sessions **(1800)**<br>ESR Patient Advisory Group Session<br>**18** | $E^3$ - The Beauty of Basic Knowledge<br>**$E^3$ 24E, $E^3$ 25E**<br>$E^3$ - Rising Stars Programme<br>**Case-Based Diagnosis Training** |

# Timetable

| | 14:00 14:30 15:00 15:30 | 16:00 16:30 17:00 17:30 | 17:45 18:00 18:30 19:00 |
|---|---|---|---|
| Wednesday, March 4 | Scientific Sessions **(300)**<br>**Siemens Healthcare Symposium - Breast Care Day**<br>**3** | $E^3$ - ECR Academy<br>**$E^3$ 418**<br>Special Focus Session<br>**SF 4**<br>Professional Challenges Sessions<br>**PC 4a, PC 4b**<br>Refresher Courses **(400)**<br>**Siemens Healthcare Symposium - Breast Care Day**<br>**4** | **Opening Ceremony**<br>Presentation of Honorary Members:<br>*N. Reed Dunnick; US*<br>*Tae-Hwan Lim; KR*<br>*Anne G. Osborn; US* |
| Thursday, March 5 | $E^3$ - ECR Academies<br>**$E^3$ 720, $E^3$ 721**<br>$E^3$ - Rising Stars Programme<br>**Student Session 1**<br>Scientific Sessions **(700)**<br>Multimedia Classroom **MM 7**<br>**ESOR** Session<br>**EuroSafe** Imaging Session<br>**EIBIR** Session<br>Joint Course: ESR/RSNA<br>**MC 728**<br>**7** | $E^3$ - ECR Academies<br>**$E^3$ 818, $E^3$ 819, $E^3$ 820, $E^3$ 821**<br>$E^3$ - ECR Master Class<br>**$E^3$ 826**<br>$E^3$ - Rising Stars Programme<br>**Student Session 2**<br>Special Focus Sessions<br>**SF 8a, SF 8b, SF 8c**<br>Professional Challenges Sessions<br>**PC 8a, PC 8b**<br>Pros & Cons Session **PS 827**<br>Multidisciplinary Session **MS 8**<br>Refresher Courses **(800)**<br>Multimedia Classroom **MM 8**<br>Joint Course: ESR/RSNA<br>**MC 828**<br>**8** | |
| Friday, March 6 | **EFRS meets Germany**<br>**Image Interpretation Quiz**<br>Multimedia Classroom **MM 11**<br>**EuroSafe** Imaging Session<br>**EIBIR** Session<br>Joint Session: ESR/ESMRMB<br>MIR @ ECR<br>**Hologic Symposium**<br>**GE Healthcare Russia**<br>**11** | **ESR meets EAU**<br>$E^3$ - ECR Academies<br>**$E^3$ 1218, $E^3$ 1219, $E^3$ 1221, $E^3$ 1222**<br>$E^3$ - ECR Master Classes<br>**$E^3$ 1226a, $E^3$ 1226b, $E^3$ 1226c, $E^3$ 1226d**<br>$E^3$ - Rising Stars Programme<br>**Basic Session 3**<br>State of the Art Symposium<br>**SA 12**<br>Special Focus Session<br>**SF 12**<br>Professional Challenges Sessions<br>**PC 12a, PC 12b**<br>Refresher Courses **(1200)**<br>Multimedia Classroom **MM 12**<br>MIR @ ECR<br>**12** | |
| Saturday, March 7 | $E^3$ - ECR Academies<br>**$E^3$ 1518, $E^3$ 1521, $E^3$ 1522, $E^3$ 1523**<br>$E^3$ - ECR Master Class<br>**$E^3$ 1526**<br>$E^3$ - Rising Stars Programme<br>**Student Final Session**<br>New Horizon Session<br>**NH 15**<br>Special Focus Session<br>**SF 15**<br>Refresher Courses **(1500)**<br>Multimedia Classroom **MM 15**<br>**EuroSafe** Imaging Session<br>Joint Session: ESR/ESTRO<br>**15** | $E^3$ - ECR Academies<br>**$E^3$ 1618, $E^3$ 1621, $E^3$ 1622, $E^3$ 1623**<br>$E^3$ - ECR Master Classes<br>**$E^3$ 1626a, $E^3$ 1626b, $E^3$ 1626c**<br>State of the Art Symposium<br>**SA 16**<br>Special Focus Session<br>**SF 16**<br>Multidisciplinary Session<br>**MS 16**<br>Refresher Courses **(1600)**<br>**EuroSafe** Imaging Session<br>Joint Session: ESR/ESTRO<br>**16** | |
| Sunday, March 8 | $E^3$ - ECR Academy<br>**$E^3$ 1923**<br>$E^3$ - Rising Stars Programme<br>**How to write an abstract and to present a paper**<br>$E^3$ - Rising Stars Programme<br>**Case-Based Diagnosis Training**<br>Scientific Sessions **(1900)**<br>**19** | | |

# Dear ESR Members & Colleagues,

As you know, for the European Society of Radiology (ESR), the year doesn't really start in January, but in March, at our annual meeting, the European Congress of Radiology (ECR). It is at the congress that new presidents, council members and committee chairs all take office; new rules and statutes come into effect; and new aims and objectives are set out. We start in March with a clear cycle in our minds, with the following year's congress at the end of it. As I write this, we are a little over half way through the tenth 'ESR year' since the society began, and I am pleased to say it has been another busy and successful one for the ESR, as well as a very interesting and fulfilling one for me personally. There is much more to come, but I am already looking forward to the highlight at the end of it: ECR 2015.

In many ways, this has been a year of big numbers. The ESR has hit a record high in the number of Institutional Member Societies (44); our flagship journal *European Radiology* has achieved its highest Impact Factor ever (4.338); and most significantly the number of individual ESR members has climbed to 62,793. We reached this peak in August after passing the 60,000 mark in June for the first time in the society's history, consolidating our status as the largest radiological society in the world. Considering the young age of the organisation this is a remarkable achievement and a fantastic reflection of all the hard work that has gone into building the ESR. The society had just 10,000 members in 2007, but the introduction that year of our low-cost membership fee and the provision of so many useful benefits to members has seen this number grow and grow. I look forward to seeing how much further it can go.

Looking further back, another high figure this year was the 3,474 people who were able to enjoy ECR 2014 thanks to the expansion of our online streaming service ECR Live. The concept was introduced at ECR 2012 (of which I had the honour of being Congress President) and has grown rapidly in the two years since, attracting ever growing numbers of attendees. At ECR 2015, nearly every lecture will be broadcast live and made available to watch on demand afterwards. As you browse through this programme, I would like you to consider not only which sessions you might attend, but also which ones you will make a note to watch after the congress, and which of them you could recommend to colleagues who may not be attending in person.

The option of saving sessions to watch later is a long-awaited solution to a problem faced by many attendees over the years: that it is impossible to create the perfect schedule. There are so many lectures, courses and workshops worth attending that timetable clashes are inevitable, and ECR 2015 is, of course, no exception. You will not be able to attend both the Nikola Tesla Honorary Lecture on brain tumours and the Junior Image Interpretation Quiz; you can't possibly get to all of the EuroSafe Imaging sessions and every EIBIR session too; and if you attend all the student sessions, you will sadly miss out on ESR meets Germany. In previous years this would just have been bad luck, but now you can watch every one of these highlights at your own convenience.

The ECR is always a wonderful event, but it is made extra special this year by marking the 10th anniversary of the European Society of Radiology. Although the history of the ECR is much longer than that of the ESR, these two pillars of the radiological landscape are obviously very closely related, and it was natural that the ECR, as Europe's largest imaging meeting, would be the annual meeting of the ESR when the society was founded in 2005.

The ESR has taken enormous strides since then, growing to become the largest community of imaging professionals in the world. Likewise, the ECR has evolved too, into a global event that attracts attendees – and more recently, viewers – from every corner of the globe. It is often said that the ESR was formed to create a single house for radiology in Europe, and the ECR has always been the home of radiology in Europe, so it is perfectly fitting that our celebration of the society's first decade should take place in Vienna.

Prof. Bernd Hamm has done an exceptional job in creating a programme to suit the occasion, with some excellent innovations. The restructuring of the session categories according to the European Training Curriculum for Radiology, which you can read all about later in this publication, is an important change, which makes the programme easier to navigate and improves synergy with all the ESR's other educational activities. The increase in the number of slots for scientific sessions and the introduction of online voting to determine best paper awards are also excellent steps, both of which emphasise the fact that the ECR is driven by its own community.

Personally, I am very much looking forward to coming back to Vienna, a city rich with tradition and culture, to celebrate our own history and delve deep into our discipline once again.

Best wishes,
Lorenzo Bonomo
ESR President

Prof. Lorenzo Bonomo is chairman of the Department of Radiological Sciences and Bioimaging at the Catholic University of Rome, A. Gemelli Hospital, Italy.

# Dear Colleagues, dear Friends,

It is a great personal pleasure for me to be able to present to you this Preliminary Programme for the European Congress of Radiology (ECR) 2015. The programme itself has been almost two years in the making and has involved input from a great many people, all of whom share the credit for what will form the structure of an excellent congress. I would like to thank everyone on the ECR 2015 Congress Committee, the Programme Planning Committee, the chairs and members of the Scientific Committee, and of course, the staff at the ESR Office in Vienna, for their exemplary support.

One very special aspect of this congress is that we will be celebrating the 10th anniversary of the European Society of Radiology (ESR), which superseded the European Association of Radiology in 2005. The international reputation of the ECR, which has existed for far longer than the ESR, was crucial for founding the new society and helped bring radiological activities in Europe under a common roof – the ESR. The establishment of the ESR brought a much needed unity to radiology in Europe, which has led to great improvements in the benefits available to imaging professionals and trainees, including the huge educational and scientific opportunity offered by the ECR. This strength in unity and the fact that the ECR brings together radiologists from so many nations across the globe are reflected in **the motto for ECR 2015: radiology without borders.**

This ECR, like every one before it, will include its share of innovations, but this year some of them go right to the heart of the programme. The tradition of quality and the level of scientific excellence will, of course, be maintained, but the structure has undergone some fundamental changes that will make the meeting more transparent and navigable.

So many new types of sessions have been added in recent years, that it has not always been easy for participants to find the sessions that interest them and put together a clear personal schedule. With the exception of the Refresher Courses, most courses in the educational programme will now fall under the banner of **$E^3$ – European Excellence in Education.** These courses are now organised according to the different levels of the European Training Curriculum for Radiology, providing a well-structured teaching programme for medical students, trainee radiographers, residents, general radiologists and subspecialty experts. In addition, this new structure will help the speakers to better focus on the needs of the audience they are talking to. However, every session will be open to anybody interested in attending. You can read about this new structure in detail on pages 34–36.

Despite this reorganisation, the congress will, of course, still bear many features that make it so familiar to participants. The **'ESR meets' sessions** are among the highlights of every ECR and this year will surely be no exception.

On a personal level, I am proud to be welcoming my compatriots from the German Radiological Society as an official guest society, but I am equally delighted to welcome representatives from both the Turkish Society of Radiology and the Korean Society of Radiology to present their respective nations' achievements in the field. We will all get a chance to experience something of the culture of these three countries, and I am sure this special east-to-west spread will add a particularly interesting element to the programme.

In addition to the three guest nations, the ESR will again meet another partner discipline – this time the European Association of Urology. It will be an honour to receive our colleagues from urology at ECR 2015, and I am sure that our joint session on prostate cancer will be very well attended, featuring as it will some of Europe's leading authorities on urological practice and research.

As you browse through this programme you will notice that the EAU is far from the only society with whom we will co-host at the congress. The ESR has also organised **joint sessions** in cooperation with various other organisations, including the European Respiratory Society (ERS); the European Society for Magnetic Resonance in Medicine and Biology (ESMRMB); the European Society for Radiotherapy and Oncology (ESTRO); the European Organisation for Research and Treatment of Cancer (EORTC); the European Federation of Societies for Ultrasound in Medicine and Biology (EFSUMB); and the Radiological Society of North America (RSNA), making ECR 2015 one of the most collaborative meetings the ESR has ever held.

Bernd Hamm is professor of radiology and chairman of all three merged departments of radiology at the Charité, Humboldt-Universität zu Berlin and Freie Universität (Campus Mitte, Campus Virchow-Klinikum, and Campus Benjamin Franklin). He is also clinical director of four outpatient service facilities in nuclear medicine and radiology at the Charité, as well as scientific and clinical chairman of three imaging centres in Berlin.

Of course, the **European Federation of Radiographer Societies** will also play a large role at the congress, with several sessions again planned especially for radiographers, including the 'EFRS meets Germany' session, which will see top radiographers from my homeland giving insight into their clinical and research work with high-end and hybrid technology.

Lastly, two very important features of the congress that are not directly to do with the programme must be mentioned; firstly the **European Diploma in Radiology** (EDiR). Examinations for the EDiR have been taking place at the ECR for the last few years, as well as at various other congresses, as the diploma grows in popularity. I am very pleased that ECR 2015 will play host to the largest diploma examination that has taken place so far, with 200 places available for candidates, all of whom will also receive free congress registration if they apply before December 6.

The second thing is **ECR Live,** the wonderful portal through which the congress will be broadcast all over the world to anyone who is unable to attend in person. This feature has been developed with great care over the last few years and is well on the way to becoming an established part of the congress. With the introduction of the *ECR On Demand* element last year – by which videos of sessions can be viewed not only live, but after they have finished – this service became even more comprehensive. Please inform your colleagues who might be unable to come to Vienna about this opportunity.

The exciting fact is that whatever your plans are for March, the programme in your hands right now offers you a guide to what you will be able to see, both here in Vienna in person and online from the comfort of your own home. But I must say that I heartily recommend the trip. There is nothing quite like the experience of mingling with so many of your colleagues in the Austria Center Vienna, soaking up the atmosphere, or enjoying the marvellous cultural and culinary delights of Vienna ... and sharing the advantages of 'radiology without borders'!

However you choose to experience the programme in March, I do hope you enjoy it, and I look forward to welcoming you to ECR 2015.

With best regards,
Bernd Hamm
ECR 2015 Congress President

European Congress of Radiology

ECR 2015

Vienna

March 4–8

Register Now!

ecr.myESR.org

# Headline Sessions

## OPENING CEREMONY

**Wednesday, March 4, 17:45–19:00, Room A**

**Lorenzo Bonomo; Rome/IT**
ESR President

**Bernd Hamm; Berlin/DE**
ECR 2015 Congress President

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James A. Brink; Boston, MA/US

## JOSEF LISSNER HONORARY LECTURE

**Thursday, March 5, 12:15–12:45, Room A**

**Is the 'Art of Medicine' dead in the era of population health management?**

Gerald Antoch; Düsseldorf/DE

## WILHELM CONRAD RÖNTGEN HONORARY LECTURE

**Friday, March 6, 12:15–12:45, Room A**

**Hybrid imaging: let the two worlds of radiology and nuclear medicine come together**

Anne G. Osborn; Salt Lake City, UT/US

## NIKOLA TESLA HONORARY LECTURE

**Saturday, March 7, 12:15–12:45, Room A**

**Brain tumour update 2015: What's new and why you should care**

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## IMAGE INTERPRETATION QUIZ COUPLES FOR EUROPE

**Friday, March 6, 14:00–15:30, Room A**

Moderator: **Cornelia M. Schaefer-Prokop; Amersfoort/NL**

## JUNIOR IMAGE INTERPRETATION QUIZ BATTLE FOR THE AUDIENCE

**Saturday, March 7, 13:00–14:00, Room A**

Moderator: **Marc Dewey; Berlin/DE**

# Dignitaries
## to be honoured at ECR 2015

### N. Reed Dunnick
Ann Arbor, MI/US
Honorary Member

**N. Reed Dunnick** is the Fred Jenner Hodges Professor of Radiology and chair of the department of radiology at the University of Michigan Health System in Ann Arbor. He served as the 2014 president of the Radiological Society of North America.

With a medical degree from Cornell University, Prof. Dunnick spent two years in internal medicine at Strong Memorial Hospital in New York. He became assistant professor at Stanford in 1976, and later that year he went to work at the National Institutes of Health. He also worked at Duke University Medical Center where he served as chief of uroradiology and director of diagnostic imaging before accepting his current post in Michigan.

A former president of the Academy for Radiology Research, Prof. Dunnick testified before the US Congress on the need to establish a new institute, which was signed into law in 2000 as the National Institute of Biomedical Imaging and Bioengineering.

Prof. Dunnick has written 310 scientific papers, 62 book chapters and ten books. He has also served as a visiting professor at many institutions around the world.

During his career, Prof. Dunnick has received a great number of awards and honours. At ECR 2015 he will receive **Honorary Membership** of the European Society of Radiology.

### Tae-Hwan Lim
Seoul/KR
Honorary Member

**Tae-Hwan Lim** is professor of radiology at the University of Ulsan College of Medicine and a radiologist at the Asan Medical Center's department of radiology in Seoul, Korea.

Prof. Lim recieved his medical degree from Seoul National University, where he also earned a Master of Science degree in 1981 and a Ph.D in 1987. He worked as an intern and resident at Seoul National University Hospital and served as director of radiology at two Korean Armed Forces hospitals before becoming a staff radiologist at Inha General Hospital in Incheon. He was director of the NMR laboratory at the Asan Institute for Life Sciences and also served as chairman of the department of radiology at Asan Medical Center until 2000.

A major figure in promoting and developing training in MR and CT in Korea, Prof. Lim founded the Asian Society of Cardiovascular Imaging in 2007.

Prof. Lim has published 108 scientific papers in Korea, as well as 113 papers in international journals. At ECR 2015, he will receive **Honorary Membership** of the European Society of Radiology.

### Anne G. Osborn
Salt Lake City, UT/US
Honorary Member & Honorary Lecturer

**Anne G. Osborn** is Distinguished Professor of Radiology at the University Of Utah School of Medicine in Salt Lake City. She also holds the William H. and Patricia W. Child Presidential Chair in Radiology at the University of Utah.

Prof. Osborn received her Bachelor's degree and her Medical degree from Stanford University in California, where she also completed her residency. She later worked at the University of Utah School of Medicine and also served as a visiting professor at many prestigious medical institutions.

A renowned neuroradiologist and the first woman to be elected president of the American Society of Neuroradiology, Prof. Osborn has authored several texts considered to be definitive references in her field. Her latest comprehensive textbook, Osborn's Brain, won the 2013 American Medical Writers Association award for Best Book Written by a Physician.

In November, 2000, she was named the first-ever recipient of the RSNA's Outstanding Educator Award. She has also received gold medal awards from many radiological societies around the world. At ECR 2015, she will receive **Honorary Membership** of the European Society of Radiology and deliver the **Nikola Tesla Honorary Lecture** entitled, **'Brain tumour update 2015: What's new and why you should care'.**

## Claus D. Claussen
Tübingen/DE
Gold Medallist

**Claus D. Claussen** is a radiologist at the department of radiology at University Hospital Tübingen in Germany. He is also director of metabolic imaging at the German Diabetes Center in Tübingen.

After graduating from the University of Heidelberg with a degree in medicine Prof. Claussen also completed his residency there. He later worked at the Charlottenburg Clinical Center (now part of the Charité) in Berlin and was promoted to professor of radiology in 1986. He moved to the University of Tübingen in 1988 and served as chairman and professor of radiology until 2014.

Prof. Claussen has been involved in the development of hybrid PET/MRI imaging and he has published in a large range of highly regarded scientific journals.

As a former president of the German Radiological Society, Prof. Claussen is a supporter of international cooperation, and he has been chairman of the ESR's Ethical Compliance Subcommittee since 2010.

In recognition of his work, Prof. Claussen has received numerous awards and honours from many societies. At ECR 2015 he will receive the **Gold Medal** of the European Society of Radiology.

## Yves Menu
Paris/FR
Gold Medallist

**Yves Menu** is professor of radiology and chairman of the department of radiology at Saint Antoine Hospital, Pierre & Marie Curie University in Paris, France.

Prof. Menu graduated from the University of Paris IV Medical School in 1976, and began his residency in neurosurgery, endocrinology and radiology at the Assistance Publique Hôpitaux de Paris and University of Paris in 1977. He later worked at Beaujon Hospital, Bichat Hospital, and Bicêtre Hospital in Paris.

Prof. Menu's main areas of interest are in the fields of gastrointestinal radiology, oncologic imaging, emergency radiology and musculoskeletal radiology. He has published 191 peer-reviewed articles, 19 book chapters and a book. He has also delivered 290 lectures, presentations and invited talks around the world. He was editor-in-chief of the *Journal de Radiologie*, the official journal of the French Society of Radiology, and he has served as reviewer for several other journals.

An active member of the ESR, Prof. Menu served as president of ECR 2011 and served on the ESR's Programme Planning Committee for a number of congresses. AT ECR 2015, he will receive the **Gold Medal** of the European Society of Radiology.

## András Palkó
Szeged/Hungary
Gold Medallist

**András Palkó** is chairman and head of the department of radiology at Szeged University Medical School. He is also editor-in-chief of the journal *Magyar Radiológia*.

Prof. Palkó graduated from the University of Pécs Medical School in 1977 and became a board-certified radiologist in 1981. He has worked in Kuwait, the United States and Germany during his career. His main field of interest is abdominal-gastrointestinal radiology, with a special emphasis on oncologic and emergency imaging.

An active member of the ESR for many years, Prof. Palkó has served on the ESR Board of Directors and as its president in 2012. He is currently secretary-general of the European Society of Abdominal and Gastrointestinal Radiology.

Prof. Palkó has published 91 peer-reviewed articles and 31 book chapters. He has also delivered more than 200 invited lectures around the world. He has received widespread recognition for his work, having been awarded honorary membership by the French, Irish, Polish, Romanian, and Serbian radiological societies, as well as the Radiological Society of North America. At ECR 2015, he will receive the **Gold Medal** of the European Society of Radiology.

## Gerald Antoch
Düsseldorf/DE
Honorary Lecturer

**Gerald Antoch** is professor of radiology and chairman of the department of diagnostic and interventional radiology at University Hospital Düsseldorf.

After completing his medical training, Prof. Antoch began working in the department of general surgery and trauma surgery at the Marien Hospital in Düsseldorf, Germany. He became a board certified radiologist in 2000. From 2004 to 2008, he worked as a consultant radiologist before assuming his current post in 2010.

Prof. Antoch's scientific research focuses on hybrid imaging and interventional radiology. He has published 209 original scientific articles and reviews, as well as 20 book chapters. He has received widespread recognition for his work with a number of awards from societies in Germany and the US.

An active member of several scientific societies, including the German Radiological Society and the European Society of Radiology, Prof. Antoch also served on the ECR 2015 Programme Planning Committee. At ECR 2015, he will deliver the **Wilhelm Conrad Röntgen Honorary Lecture** entitled, **'Hybrid imaging: let the two worlds of radiology and nuclear medicine come together'.**

## James A. Brink
Boston, MA/US
Honorary Lecturer

**James A. Brink** is radiologist-in-chief at Massachusetts General Hospital, Boston and Juan M. Taveras Professor of Radiology at Harvard Medical School, Cambridge, in the United States. Prof. Brink worked as a resident and fellow at Massachusetts General Hospital, after receiving his medical degree from Indiana University. He worked at the Institute of Radiology at the Washington University School of Medicine in Seattle, before going to Yale University in 1997 and serving as chair of the department of diagnostic radiology department from 2006 to 2013. He is also a past president of the Radiological Society of North America.

A highly experienced clinical radiologist, Prof. Brink has a particular interest and expertise in issues related to the monitoring and control of medical radiation exposure and is currently co-chair of the Image Wisely campaign.

Prof. Brink has published 119 papers and 19 book chapters. He has also given 239 presentations. At ECR 2015, he will deliver the **Josef Lissner Honorary Lecture** entitled, **'Is the 'Art of Medicine' dead in the era of population health management?'**

# ESR/EFRS meets Sessions

Once again, the ESR will welcome three countries and a partner discipline to share their expertise as part of the 'ESR meets' programme during ECR 2015, next March in Vienna.

The national radiological societies of Germany, the Republic of Korea, and Turkey, as well as the European Association of Urology (EAU), will present their most recent scientific developments in joint sessions, and try to strengthen links between professionals from different countries and disciplines. The European Federation of Radiographer Societies (EFRS) will also host its own 'meets' session for radiographers, in conjunction with their colleagues from Germany (German Association of Medical Technologists and Analysts).

Both the ESR and the EFRS warmly welcome these societies, and hope to see ECR delegates attend the sessions in large numbers.

# ESR/EFRS meets Sessions

6 March **Friday, March 6, 10:30–12:00, Room B**

## ESR meets Germany

### EM 1 Tradition goes digital: getting ready for the future

ALL LEVELS

**Moderators:** B. Hamm; Berlin/DE
N. Hosten; Greifswald/DE

» **Welcome by the ESR President**
L. Bonomo; Rome/IT

» **Introduction**
N. Hosten; Greifswald/DE

» **State-of-the-art teaching in German radiology: Akademie online**
M.G. Mack; Munich/DE

» **Interlude I: Radiation protection: the concept of 'justifying indication'**
R.W.R. Loose; Nürnberg/DE

» **Population-based MRI: SHIP (study of health in Pomerania) and the national cohort**
K. Hegenscheid; Greifswald/DE

» **Interlude II: The Röntgenhaus: Wilhelm Conrad Röntgen's birthplace**
B. Lewerich; Berlin/DE

» **MRI-PET: a new modality for clinical imaging**
C.D. Claussen; Tübingen/DE
N. Schwenzer; Tübingen/DE

» **Panel discussion:**
**Cross-linking radiology: opportunity or threat?**

6 March **Friday, March 6, 14:00–15:30, Room B**

## EFRS meets Germany

*(European Federation of Radiographer Societies)*

### EM 5 High-end and hybrid technology in clinical and research work of radiographers in Germany

**Moderators:** C. Vandulek; Kaposvár/HU
A. Ohmstede; Oldenburg/DE

» **Introduction**
C. Vandulek; Kaposvár/HU
A. Ohmstede; Oldenburg/DE

» **Teaching and learning with VERT (Virtual Environment for Radiation Therapy Training)**
C. Garske; Berlin/DE

» **Selective Internal Radiation Therapy (SIRT)**
B. Kulitzscher; Berlin/DE

» **Interlude: German Röntgen Museum**
U. Busch; Remscheid/DE

» **PET-CT**
K. Hägele; Böbingen/DE

» **MRI-PET**
V. Diehl; Bremen/DE

6 March **Friday, March 6, 16:00–17:30, Room B**

## ESR meets EAU

*(European Association of Urology)*

### EM 2 Joint ESR-EAU prostate cancer session

LEVEL II+III

**Moderators:** P.-A. Abrahamsson; Malmö/SE
B. Hamm; Berlin/DE

» **Welcome by the ESR President**
L. Bonomo; Rome/IT

» **Introduction**
P.-A. Abrahamsson; Malmö/SE
B. Hamm; Berlin/DE

» **PSA screening: the EAU view**
P.-A. Abrahamsson; Malmö/SE

» **Role of a multiparametric MRI in early detection**
G.M. Villeirs; Gent/BE

» **Active surveillance strategies in prostate cancer**
A. Villers; Lille/FR

» **Role of imaging in active surveillance**
A.R. Padhani; London/UK

» **Panel discussion:**
**When should MRI be used? Before or after prostate biopsy? Qualitative or quantitative MRI reading? Cost-effectiveness of mpMRI as a tool for prostate cancer screening. Can mpMRI detect clinically significant prostate cancer?**

# ESR/EFRS meets Sessions

7 March **Saturday, March 7, 10:30–12:00, Room B**

## ESR meets the Republic of Korea
## EM 3 CT in lung cancer screening and COPD evaluation

LEVEL II

**Moderators:** B. Hamm; Berlin/DE
T.-H. Lim; Seoul/KR

» **Welcome by the ESR President**
L. Bonomo; Rome/IT

» **Introduction: Korean Society of Radiology - evolution and new challenges**
T.-H. Lim; Seoul/KR

» **Lung cancer screening in Korea**
K.S. Lee; Seoul/KR

» **Interlude: Republic of Korea (South Korea): Korean people and culture**
J. Hur; Seoul/KR

» **Computer-aided nodule detection and volumetry: role in lung cancer screening**
J.M. Goo; Seoul/KR

» **Interlude: Introduction of the Korean Society of Thoracic Radiology (KSTR)**
J. Hur; Seoul/KR

» **CT in COPD: now and future**
J.B. Seo; Seoul/KR

» **Panel discussion: Is CT an effective tool for management of lung cancer screening and COPD?**

8 March **Sunday, March 8, 10:30–12:00, Room B**

## ESR meets Turkey
## EM 4 Turkey welcomes ECR

LEVEL II+III

**Moderators:** A. Coşkun; Kayseri/TR
B. Hamm; Berlin/DE

» **Welcome by the ESR President**
L. Bonomo; Rome/IT

» **Introduction**
A. Coşkun; Kayseri/TR

» **Liver hydatid cysts: percutaneous treatment**
O. Akhan; Ankara/TR

» **Interlude I: Music show**
İ. Barutçu; Trabzon/TR

» **fMRI of the brain: beyond expectations?**
C. Calli; Izmir/TR

» **Interlude II: Music show**
İ. Barutçu; Trabzon/TR

» **Advanced hepatopancreaticobiliary imaging**
Ş.M. Ertürk; Istanbul/TR

» **Panel discussion**

# East meets west at ECR 2015

By Mélisande Rouger

With its slogan 'radiology without borders', ECR 2015 embodies the spirit of European cooperation: bringing together imaging experts from all around the world to exchange and discuss the latest trends in their discipline. One of the best examples of ECR's commitment to international collaboration is the 'ESR meets' programme, which invites three national radiological societies to present facts about imaging in their country, and a partner discipline to focus on its cooperation with radiology.

Germany, home to ECR President Prof. Bernd Hamm from Berlin, will kick off the programme on Friday with a session organised by **the German Radiological Society** (DRG) and entitled 'Tradition goes digital: getting ready for the future'.

"This session will deal with changes facing radiologists as their world becomes digital; this does not refer to digital imaging modalities but rather to aspects of new options for radiologist training, population-based imaging and hybrid imaging techniques," Prof. Hamm said.

"Today, in many areas of life, digitisation is the most important trend. Radiology, due to its everyday use of technology, is at the forefront of medical specialties in this respect. Digitisation, as we all know, needs a conscious effort on the part of the user: as radiologists, we do not want to be led but to lead. So we should stop a moment and think how digitisation impacts our profession. Some examples will be given in the session," said DRG President Prof. Norbert Hosten from Greifswald, who will co-moderate the session.

The first speaker, Dr. Martin G. Mack from Munich, will present the achievements of *Akademie online*, a teaching platform run by the German Roentgen Association. "*Akademie online* is a very successful tool in which top-notch speakers debate around state-of-the-art clinic, technology and other aspects of our work as radiologists. There are special sessions for medical students to get them interested in radiology and help them with their exams. Technical assistants have their own sessions and even courses required by the authorities may be completed here," Prof. Hosten explained.

Dr. Katrin Hegenscheid, also from Greifswald, will then introduce the results of population-based MRI studies led by radiologists and epidemiologists to offer evidence-based data. "Evidence is not always as good as desired by reimbursement agencies. Study samples, for example, are slow and endpoints are often somewhat soft. In Greifswald, an old university town near the Baltic Sea and the Polish border, radiologists have teamed up with epidemiologists and performed free whole-body MRI in healthy subjects. Radiogenomics, metabolomics and genomics are available for all patients screened. Early signs of disease on MRI may thus be determined, as patients will be followed for decades," Prof. Hosten said.

Finally, developments in the emerging and promising field of MRI-PET will be at the heart of the presentation given by Dr. Claus D. Claussen and Dr. Nina F. Schwenzen, both from Tübingen. "As a technology-driven medical profession, new technology is the air we breathe. We are optimistic about the future of MRI-PET. Think of MRI – did it really look so promising in the beginning? Remember the joke by other specialists that NMR stands for no money remains. It proved to be utterly wrong, and maybe MRI-PET is closer to clinical reality than we now think," Prof. Hosten said.

Interludes will shed a light on other interesting characteristics of German radiology. Prof. Reinhard R.W. Loose from Nürnberg will first talk about radiation protection and the concept of justifying indications, an increasingly important aspect of healthcare in the advent of teleradiology. "Justifying an indication means asking for the radiologist's confirmation that the risks and benefits are considered before an examination using ionising radiation is performed. Obviously, this strengthens the role of the radiologist. Compromises have to be made for teleradiology. But the danger is that teleradiology facilitates the commoditisation of radiology – radiology reports become something like oxygen in the OR, delivered without a doctor. Justifying indications in the context of teleradiology requires contact between a physician on the site serviced by teleradiology and a radiologist. The future will show how this works out, with other European countries being much more liberal," Prof. Hosten concluded.

Dr. Bernhard Lewerich from Berlin will for his part present the Röntgenhaus, the house in which Wilhelm Conrad Röntgen was born and which is currently being renovated.

Last but not least, **the European Federation of Radiographer Societies** (EFRS) will take part in the programme through the EFRS meets Germany session, which will explore the place of high-end and hybrid technology in the clinical and research work of radiographers.

As every year, the 'ESR meets' programme will welcome a partner discipline to talk about its cooperation with radiology. The **European Association of Urology** (EAU) has prepared a session in which urologists and specialised radiologists will discuss their strengthening collaboration in the early detection and surveillance of prostate cancer.

"Prostate cancer is one of the most common malignancies in the western world and the second leading cause of death from all cancers, with 382,000 new cases and around 89,000 deaths per year in Europe. It has more recently become a very hot topic, as we are approaching a more proactive attitude in terms of early detection and screening in the male population. We published a paper in *European Urology* last year promoting early detection of prostate cancer (1). We prefer early detection rather than screening, as it has been misused by so many colleagues and authors over the years," said EAU President Prof. Per-Anders Abrahamsson from Malmö, Sweden, who will explain the association's view on prostate specific antigen (PSA) screening tests.

A panel of international experts will give talks on the role of multiparametric MRI in early detection, active surveillance strategies and the role of imaging in active surveillance, with the aim of stressing the importance of the cooperation not only between radiologists and urologists, but also more generally the medical team.

"Our collaboration in terms of diagnosis and management is crucial, as not only MRI but also PET scans with choline or any modern tracer are critical in order to optimise radical treatment. In most leading centres across Europe, there is a close interaction and multidisciplinary approach with not only radiologists but also pathologists and medical oncologists. The critical issue is to optimise prostate cancer units and define requirements in order to provide our patients with the best care, not only in terms of diagnosis, but also treatment and follow-up," Prof. Abrahamsson said.

The panel discussion will try to answer questions about MRI use in prostate cancer management, for instance if MRI should be used before or after prostate biopsy and if multiparametric MRI is cost effective in screening. "Multiparametric MRI is of course of importance as transrectal ultrasound with multiple biopsies is obviously not the optimal way to diagnose prostate cancer. We miss too many significant cancers. Evaluation of multiparametric MRI examination is still ongoing as we have a problem to differentiate between low risk, medium risk and high-risk prostate cancer. There is an interesting improvement in terms of transrectal ultrasound with tracer and in the future, perhaps, using both transrectal ultrasound in combination with MRI will be the optimal way to minimise the number of biopsies, in order to identify significant cancers," he said.

The session should help improve an already well-established relationship, Abrahamsson believes. "The relationship between radiologists and urologists is by far much better in Europe than other parts of the world. It means, however, that there are exceptions to the rule in some European countries but I can see a great future ahead of us working very closely together," he said.

Travelling further east, the delegation from the **Korean Society of Radiology** (KSR) will host the session 'CT in lung cancer screening and COPD evaluation' on Saturday.

KSR President Prof. Tae-Hwan Lim from Seoul will present the history of the society and the challenges it is currently facing. Speakers will then deliver talks on lung cancer screening in Korea, the role of computer-aided nodule detection and volumetry in lung cancer screening, and the use of CT in chronic obstructive pulmonary disease (COPD).

The interludes will provide delegates with an insight into Korean culture and an introduction to the Korean Society of Thoracic Radiology. The concluding panel discussion will question whether CT is an effective tool for management of lung cancer screening and COPD.

On Sunday, the delegation of the **Turkish Society of Radiology**, led by Prof. Abdulhakim Coşkun from Kayseri, will feature prominent experts to present state-of-the-art imaging in Turkey, starting with a talk on percutaneous treatment of liver hydatid cysts.

Hydatic disease caused by echinococcus granulosus is still an endemic disease and a public health problem, not only in Turkey but also more generally in the Mediterranean, Middle East and South America. The major criteria for assessing the indications for treatment of hydatid disease of the liver are primarily based on imaging findings, and ultrasonography is the major classification tool of liver hydatidosis, according to Prof. Okan Akhan from Ankara, who will give the presentation.

Surgery remains the conventional treatment for hydatid liver disease, but it is associated with considerable mortality, morbidity, high recurrence rates and hospital stays which can last up to 30 days. The alternative treatment provided by interventional radiology helps to reduce risks, Prof. Akhan argues.

"The long-term follow-up of the lesions treated with the percutaneous approach shows that this treatment is highly successful, reported to be over 98%. It is associated with lower complication and recurrence rates and shorter hospital stay in comparison with surgery. The percutaneous approach is also a treatment alternative to surgery for hepatic cancer located in other organs such as spleen, kidney, peritoneum, lungs, soft tissue, surrenal gland, orbita and parotid gland whenever indicated," he said. Prof. Akhan will underline the importance of the stage-specific approach, and present the indications and different techniques available to radiologists, namely the PAIR technique, catherisation with hypertonic saline and alcohol, and MoCat.

The other presentations will focus on fMRI of the brain, with a speaker from Izmir, Prof. Cem Calli, and advanced hepatopancreaticobiliary imaging with Dr. Sukru Mehmet Ertürk from Istanbul, who will discuss the latest advances made in the field and the remaining challenges.

"The global challenge of hepatopancreaticobiliary imaging is to define and use an analytical diagnostic approach that uses all available tools such as functional MR imaging methods, hepatobiliary-specific MR contrast agents, CT perfusion imaging, and hybrid imaging techniques including PET-CT and MRI-PET, in the work-up of disease entities. This approach needs to be economically viable as well, considering the increasing financial pressure on the healthcare systems of the countries over the world. This is Turkey's challenge too," he said.

In between presentations, delegates will be treated to a music show, to bring a festive note to the debates.

"I think that all societies invited to these sessions put in a lot of effort to make their sessions outstanding. I am confident that these sessions will be a highlight of the congress. I hope that all participants of our congress will live our motto and embrace this unique opportunity for meeting colleagues from so many countries and benefit from this platform for international exchange in the radiological community," Prof. Hamm concluded.

(1): European Urology 64 (2013) 347-354.

# New Horizons Sessions

The New Horizons Sessions aim to provide practitioners with an overview of the new developments in a specific area of practice, whether it is a subspecialty, a particular technique, or certain diseases. These developments may become routine within a few years, or may indicate a new direction for research and clinical application. Each session is 90 minutes long and features an introduction from a chairman, followed by three or four brief presentations on different aspects of the main subject, and concluded by a panel discussion that will hopefully answer some critical questions.

Places are allocated on a first-come, first-served basis.

# **New Horizons** Sessions

6 March **Friday, March 6, 08:30–10:00, Room E2**

## NH 9 Image-guided interventions of the prostate

LEVEL III

- **Chairman's introduction: defining the target**
  A.R. Padhani; London/UK
- **MR-targeted prostate biopsy**
  J.J. Fütterer; Nijmegen/NL
- **MR-US fusion prostate biopsy**
  F. Cornud; Paris/FR
- **Image-guided tumour ablations**
  H.U. Ahmed; London/UK
- **Prostate artery embolisation (PAE) for benign hypertrophy**
  F.C. Carnevale; Sao Paulo/BR
- **Panel discussion: Do organ-sparing prostatic treatments make sense?**

7 March **Saturday, March 7, 14:00–15:30, Room E2**

## NH 15 Optical molecular imaging: a new dimension for radiology

LEVEL II+III

- **Chairman's introduction**
  C.-C. Glüer; Kiel/DE
- **Reporter gene imaging**
  C.W.G.M. Löwik; Leiden/NL
- **Cerenkov - faster than the speed of light**
  J. Grimm; New York, NY/US
- **The kiss of light and sound - optoacoustics**
  V. Ntziachristos; Munich/DE
- **Panel discussion: Potential of optical imaging for translation to human applications**

8 March **Sunday, March 8, 08:30–10:00, Room E2**

## NH 17 Comprehensive personalised imaging of cardiothoracic diseases

LEVEL III

- **Chairman's introduction: how to prepare for the future?**
  T. Benedek; Targu Mures/RO
- **Patients with acute and chronic chest pain**
  C. Loewe; Vienna/AT
- **Patients with acute shortness of breath**
  J. Bremerich; Basle/CH
- **Patients with chronic shortness of breath**
  E.J.R. van Beek; Edinburgh/UK
- **Early detection for cardiothoracic disease in smokers**
  M. Rémy-Jardin; Lille/FR
- **Panel discussion: Comprehensive imaging and education in cardiothoracic diseases**

# State of the Art Symposia

These sessions will inform the audience about the 'real state of the art' of a given subject. Each of the lecturers is an expert on the given topic as a whole or on a specific aspect of the topic.

The 90-minute sessions are chaired by a moderator who will introduce three to four speakers addressing various issues within wider subjects such as anatomical regions, specific diseases, or particular techniques. The presentations will be followed by a discussion conducted by the panellists, led by the chairman.

Places are allocated on a first-come, first-served basis.

# State of the Art Symposia

5 March Thursday, March 5, 08:30–10:00, Room E1

## SA 5 Rethinking ductal carcinoma in situ (DCIS) LEVEL III

» **Chairman's introduction**
G. Forrai; Budapest/HU

» **New molecular pathologic knowledge on DCIS**
T. Tot; Falun/SE

» **Diagnosing DCIS with MRI**
C.K. Kuhl; Aachen/DE

» **Image-guided interventions for DCIS**
R.M. Pijnappel; Utrecht/NL

» **Panel discussion: Patient with DCIS: how to plan her therapy in 2015?**

6 March Friday, March 6, 16:00–17:30, Room F1

## SA 12 Fleischner guidelines for nodules: theory and practice LEVEL II

» **Chairman's introduction**
C.M. Schaefer-Prokop; Amersfoort/NL

» **The 2011 classification of adenocarcinomas: rationale and implications for nodule management**
A. Nicholson; London/UK

» **The Fleischner guidelines for solid and subsolid nodules: theory and practice**
A.A. Bankier; Boston, MA/US

» **Estimating the risk for malignancy of pulmonary nodules**
B. van Ginneken; Nijmegen/NL

» **Panel discussion: Fleischner guidelines: what have we learned?**

7 March Saturday, March 7, 16:00–17:30, Room F1

## SA 16 Controversies in comprehensive imaging of coronary artery disease LEVEL II

» **Chairman's introduction: what is the evidence?**
M. Dewey; Berlin/DE

» **Computed tomography is all you need**
H. Alkadhi; Zurich/CH

» **Magnetic resonance will take the lead**
M. Francone; Rome/IT

» **Hybrid nuclear imaging shows no defeat**
S. Kajander; Turku/FI

» **Panel discussion: Imaging of coronary artery disease in 2020**

# Special Focus Sessions

The concept of a Special Focus Session is to deal with a topic at the cutting edge of development and clinical application. A traditional approach is inappropriate for such a session, which should reflect the lecturers' forthright personal views on a developing subject. The topics of these sessions should be presented in such a way as to promote debate and give an in-depth analysis.

The chairman will introduce each aspect of the topic and the panellists will then discuss their different perspectives and opinions. The audience will have the opportunity to discuss their ideas with the lecturers. Session length: 90 minutes; three to four speakers.

Places are allocated on a first-come, first-served basis.

# **Special Focus** Sessions

4 March **Wednesday, March 4, 08:30–10:00, Room C**

## SF 1a Acute gastrointestinal tract emergencies: an update LEVEL II

- **Chairman's introduction**
  F. Caseiro-Alves; Coimbra/PT
- **The acute abdomen: inflammation and its mimics**
  M. Zins; Paris/FR
- **Mechanical bowel obstruction**
  D.J.M. Tolan; Leeds/UK
- **Evaluation of the ischaemic bowel**
  S. Romano; Naples/IT
- **The acute GI bleed**
  O.M. van Delden; Amsterdam/NL
- **Panel discussion: How should acute GI tract emergencies be managed?**

4 March **Wednesday, March 4, 08:30–10:00, Room E1**

## SF 1b Up-to-date imaging for hearing loss LEVEL III

- **Chairman's introduction**
  A. Trojanowska; Lublin/PL
- **New devices in the treatment of hearing loss**
  B. Ozgen Mocan; Ankara/TR
- **Pre- and postoperative imaging in middle ear implants**
  E. Loney; Bradford/UK
- **Pre- and postoperative imaging in inner ear and brainstem implants**
  B. Verbist; Leiden/NL
- **Panel discussion: Changing demands for imaging in hearing loss**

4 March **Wednesday, March 4, 08:30–10:00, Room E2**

## SF 1c Internal derangement of joints: choosing the right test for the problem LEVEL II

- **Chairman's introduction**
  A.J. Grainger; Leeds/UK
- **CT arthrography: acceptable if MR availability is limited?**
  B. Vande Berg; Brussels/BE
- **MR arthrography: exquisite soft tissue contrast**
  E. Rowbotham; Leeds/UK
- **MRI: when is it enough?**
  C.W.A. Pfirrmann; Zurich/CH
- **Panel discussion: Can one technique ever fulfill all the roles? How will our optimal techniques change in the next 5 years?**

4 March **Wednesday, March 4, 16:00–17:30, Room C**

## SF 4 Pancreatic lesions - the solid, the cystic, and the diffuse: benign or malignant? LEVEL II

- **Chairman's introduction**
  C. Matos; Brussels/BE
- **The solid pancreatic lesion**
  R. Manfredi; Verona/IT
- **The cystic pancreatic lesion**
  J. Wessling; Münster/DE
- **The diffuse pancreatic lesion**
  C. Triantopoulou; Athens/GR
- **Panel discussion: Pitfalls and problems in pancreatic lesions**

5 March **Thursday, March 5, 08:30–10:00, Room C**

## SF 5 Advanced applications in ultrasound LEVEL II

- **Chairman's introduction**
  T. Fischer; Berlin/DE
- **Contrast-enhanced ultrasound of the pancreas**
  M. D'Onofrio; Verona/IT
- **Molecular ultrasound and dynamic contrast-enhanced US for antiangiogenic therapy monitoring**
  N. Lassau; Villejuif/FR
- **State-of-the-art ultrasound technologies: elastography and microvascular imaging - are they useful?**
  A.K.P. Lim; London/UK
- **ShearWave elastography, ultrafast Doppler and image fusion**
  J.-M. Correas; Paris/FR
- **Panel discussion: How could these technologies improve clinical routine?**

5 March **Thursday, March 5, 16:00–17:30, Room B**

## SF 8a Advanced brain MRI techniques in paediatrics: toys or tools in daily practice? LEVEL III

- **Chairman's introduction**
  A. Rossi; Genoa/IT
- **Arterial spin-labelling: measuring perfusion non-invasively in neonates and children**
  J. Hendrikse; Utrecht/NL
- **MR spectroscopy: information vs time**
  J.F. Schneider; Basle/CH
- **Diffusion tensor imaging: connecting the dots**
  T.A.G.M. Huisman; Baltimore, MD/US
- **Panel discussion: Do advanced brain MRI techniques really change current practice?**

# Special Focus Sessions

5 March Thursday, March 5, 16:00–17:30, Room E2

## SF 8b New frontiers in brain tumour imaging

LEVEL III

- **Chairman's introduction**
  H. Rolf Jäger; London/UK
- **Imaging correlates of brain tumour genotypes**
  M. Smits; Rotterdam/NL
- **Multi-parametric MR tumour imaging in brain tumour diagnosis and monitoring**
  M.A. Lucic; Sremska Kamenica/RS
- **MR/PET in brain tumour diagnosis: the added value of combining structural and molecular imaging**
  F. Fraioli; London/UK
- **Panel discussion: Modalities and parameters - what do we really need?**

5 March Thursday, March 5, 16:00–17:30, Room F2

## SF 8c Breast imaging modalities: beyond the conventional

LEVEL III

- **Chairman's introduction**
  M. Lobbes; Maastricht/NL
- **Contrast-enhanced mammography**
  C. Dromain; Villejuif/FR
- **Breast CT**
  W.A. Kalender; Erlangen/DE
- **Non-contrast MRI**
  P.A.T. Baltzer; Vienna/AT
- **Panel discussion: Is there still room for conventional breast imaging?**

6 March Friday, March 6, 08:30–10:00, Room C

## SF 9a Evaluation of treatment response in head and neck cancer

LEVEL II+III

- **Chairman's introduction**
  M. Becker; Geneva/CH
- **Prognostic factors influencing treatment choice and treatment response**
  R. Hermans; Leuven/BE
- **Evaluation of early treatment response: can MRI techniques make a difference?**
  H.C. Thoeny; Berne/CH
- **Post treatment imaging: is PET a reliable indicator for tumour viability?**
  S. Bisdas; Tübingen/DE
- **Panel discussion: Can we provide accurate information for the evaluation of treatment response?**

6 March Friday, March 6, 08:30–10:00, Room D1

## SF 9b The forgotten joints

LEVEL III

- **Chairman's introduction**
  M. Padrón; Madrid/ES
- **Fingers and toes: little joints, big trouble?**
  A. Klauser; Innsbruck/AT
- **The symphysis pubis**
  C.W.A. Pfirrmann; Zurich/CH
- **The acromioclavicular joint: patterns of injury**
  D. Barron; Leeds/UK
- **Panel discussion: Are these topics never to be forgotten?**

6 March Friday, March 6, 16:00–17:30, Room E2

## SF 12 Interventional radiology in venous thromboembolism and chronic venous disease

LEVEL III

- **Chairman's introduction**
  D.K. Tsetis; Iraklion/GR
- **Current endovascular treatment in iliofemoral DVT**
  R. Uberoi; Oxford/UK
- **Vena cava filters: an update**
  M.J. Lee; Dublin/IE
- **Interventional treatment of severe/massive pulmonary embolism**
  G. Carrafiello; Varese/IT
- **Techniques and tools in endovenous thermal ablation**
  D.J. West; Stoke-on-Trent/UK
- **Panel discussion: What the interventional radiologist needs to know about modern anticoagulation treatment?**

7 March Saturday, March 7, 14:00–15:30, Room F1

## SF 15 Cardiac CT: cutting edge techniques

LEVEL III

- **Chairman's introduction: overview of the cutting edge techniques**
  R. Salgado; Antwerp/BE
- **Estimation of coronary flow reserve by CT: a new arrival**
  G. Bastarrika; Pamplona/ES
- **Myocardial perfusion imaging in clinical routine: ready for prime time?**
  K. Kitagawa; Mie/JP
- **Plaque imaging with cardiac CT: coming of age?**
  J. Hoe; Singapore/SG
- **Panel discussion: Which technique will change clinical practice?**

# **Special Focus** Sessions

7 March **Saturday, March 7, 16:00–17:30, Room E2**

## SF 16 Imaging biomarkers in degenerative joint disease

LEVEL III

- **Chairman's introduction**
  S. Trattnig; Vienna/AT
- **Proteoglycan-specific quantitative imaging in osteoarthritis and cartilage repair - part 1**
  E.H.G. Oei; Rotterdam/NL
- **Proteoglycan-specific quantitative imaging in osteoarthritis and cartilage repair - part 2**
  M.-A. Weber; Heidelberg/DE
- **Degenerative joint disease: collagen-specific quantitative imaging of menisci and tendons**
  K.M. Friedrich; Vienna/AT
- **Panel discussion: What are the new imaging biomarkers in degenerative MSK disease?**

8 March **Sunday, March 8, 08:30–10:00, Room D1**

## SF 17a Metabolic bone diseases

LEVEL II

- **Chairman's introduction**
  G. Guglielmi; Andria/IT
- **A critical appraisal of vertebral fracture identification**
  A. Bazzocchi; Bologna/IT
- **Metabolic bone disorders in patients with malabsorption**
  C.M. Phan; Paris/FR
- **Bone quality beyond BMD: what do we know already and what more does the future hold?**
  J.S. Bauer; Munich/DE
- **Panel discussion: How do radiologists get involved?**

8 March **Sunday, March 8, 08:30–10:00, Room F1**

## SF 17b Congenital heart disease: from infancy to adulthood

LEVEL II

- **Chairman's introduction**
  M. Haliloglu; Ankara/TR
- **Cardiac CT: challenges in congenital heart diseases**
  M. Kantarci; Erzurum/TR
- **Segmental approach to MR imaging of congenital heart disease**
  A.M. Taylor; London/UK
- **Imaging of congenital heart disease in adults**
  S. Leschka; St. Gallen/CH
- **Panel discussion: What is the impact of radiologists in the evaluation of congenital heart disease?**

8 March **Sunday, March 8, 08:30–10:00, Room K**

## SF 17c Technology for supporting clinical research in radiology

LEVEL II

- **Chairman's introduction**
  D. Caramella; Pisa/IT
- **Online tools and software solutions for effective clinical research**
  A. Scarsbrook; Leeds/UK
- **PACS for research**
  D. Regge; Turin/IT
- **Using electronic case report forms for clinical imaging trials**
  T. Bäuerle; Erlangen/DE
- **Panel discussion: Are online tools, PACS, or electronic case report forms suitable for clinical research?**

# Professional Challenges Sessions

The idea of these sessions is to communicate and exchange information on professional issues related to radiology, such as training and education, research networking, radiological management and professional developments.

90-minute sessions; introduction by one or two chairmen; three to four lecturers; panel discussion.

Places are allocated on a first-come, first-served basis.

# **Professional Challenges** Sessions

4 March **Wednesday, March 4, 16:00–17:30, Room E2**

## PC 4a Radiologist: imager or doctor? LEVEL II+III

- **Chairman's introduction**
  J.A. Reekers; Amsterdam/NL
- **Which type of radiologist is future proof?**
  N.H. Strickland; London/UK
- **Is subspecialisation the answer?**
  J.A. Reekers; Amsterdam/NL
- **Is teleradiology a threat to radiology?**
  A. Palkó; Szeged/HU
- **Radiology training for the future**
  B. Ertl-Wagner; Munich/DE
- **Panel discussion: How do radiologists stay relevant and what is the role of the ESR?**

4 March **Wednesday, March 4, 16:00–17:30, Room Z**

## PC 4b What are the concrete benefits of structured reporting? LEVEL II

- **Chairman's introduction**
  L. Donoso; Barcelona/ES
- **For the radiologist**
  P. Mildenberger; Mainz/DE
- **For the referring physician**
  J.M.L. Bosmans; Ghent/BE
- **For the patient**
  C.E. Kahn; Philadelphia, PA/US
- **The ESR/RSNA structured reporting initiative**
  O. Ratib; Geneva/CH
- **Panel discussion: What are the concrete benefits of structured reporting?**

5 March **Thursday, March 5, 08:30–10:00, Room E2**

## PC 5a Looking into the future of radiology LEVEL I+II

- **Chairmen's introduction**
  M.H. Fuchsjäger; Graz/AT
  G. Paulo; Coimbra/PT
- **Health technology assessment (HTA)**
  E.J. Adam; London/UK
- **The influence of health economics systems on radiology**
  D. Katsifarakis; Athens/GR
- **Quo vadis radiology professions? A pragmatic approach**
  G.P. Krestin; Rotterdam/NL
- **Panel discussion: What is the role of European societies in building a sustainable model for radiology?**

5 March **Thursday, March 5, 08:30–10:00, Room F2**

## PC 5b Imaging biobanks: from genomic to radiomic in the era of personalised medicine LEVEL III

- **Chairmen's introduction**
  G. Frija; Paris/FR
  E. Neri; Pisa/IT
- **The biobanks: genomic, moleculomic and proteomic - Which link to radiomics?**
  M. Simmaco; Rome/IT
- **Radiomic: report from the ESR Working Group on Imaging Biobanks**
  H.-U. Kauczor; Heidelberg/DE
- **Existing imaging biobanks**
  A. Jackson; Manchester/UK
- **Extraction and analysis of biomarkers from medical images**
  B. Gibaud; Rennes/FR
- **Panel discussion: Future strategies for the development and the federation of biobanks, definition of standards, etc.**

5 March **Thursday, March 5, 16:00–17:30, Room F1**

## PC 8a Integration of imaging biomarker activities on a European level LEVEL III

- **Chairman's introduction**
  G. Frija; Paris/FR
- **From qualitative to quantitative imaging: a paradigm shift in radiology**
  S. Trattnig; Vienna/AT
- **Experience of the Quantitative Imaging Alliance (QIBA) of the RSNA**
  R. Boellaard; Amsterdam/NL
- **Introduction to the Quantitative Imaging European Task Force**
  H.-U. Kauczor; Heidelberg/DE
- **Clinical validation of imaging biomarkers and their role in European Medicine Agency (EMA) applications**
  O. Clément; Paris/FR
- **The role of imaging biomarkers in the EORTC clinical trials**
  N.M. deSouza; Sutton/UK
- **Panel discussion: How to strengthen the role of imaging biomarkers in clinical trials**

# Professional Challenges Sessions

5 March — Thursday, March 5, 16:00–17:30, Room L 1

## PC 8b Imaging in population-based studies

LEVEL II

- **Chairman's introduction**
  N. Hosten; Greifswald/DE
- **Population imaging for the prediction of neuro-degenerative diseases**
  G.P. Krestin; Rotterdam/NL
- **The German National Cohort: population based imaging in a nation-wide multi-centre setting**
  F. Bamberg; Munich/DE
- **Population-based cardiac imaging**
  S. Petersen; London/UK
- **The Trauma Cohort: a joint project of the German Röntgen Society and the German Society of Trauma Surgery**
  S. Langner; Greifswald/DE
- **Ethical aspects of population imaging**
  R. Schmücker; Münster/DE
- **Panel discussion: What does the individual gain from population imaging studies?**

6 March — Friday, March 6, 08:30–10:00, Room E1

## PC 9 Personalised medicine in radiology

LEVEL II

- **Chairman's introduction**
  R. Manfredi; Verona/IT
- **Imaging is everywhere in personalised medicine**
  A. van der Lugt; Rotterdam/NL
- **Personalised prevention: population-based imaging and image-based screening**
  F. Bamberg; Munich/DE
- **Integrated diagnostics: towards one diagnostic department**
  A. Cuocolo; Naples/IT
- **Interventional radiology: a paradigm for personalised medicine**
  S.N. Goldberg; Jerusalem/IL
- **Panel discussion: How can we best accelerate the adoption of personalised medicine in radiological practice?**

6 March — Friday, March 6, 16:00–17:30, Room F2

## PC 12a Harmonised approach for imaging in Europe: myth or reality?

LEVEL III

- **Chairman's introduction**
  L. Donoso; Barcelona/ES
- **Current heterogeneities in imaging in Europe**
  G. Frija; Paris/FR
- **Imaging equipment: an ESR perspective**
  B. Brkljačić; Zagreb/HR
- **Equipment age - COCIR**
  N. Denjoy; Brussels/BE
- **Training and certification**
  B. Ertl-Wagner; Munich/DE
- **Issues related to coding terminology and IT access**
  P. Mildenberger; Mainz/DE
- **Panel discussion: A global plan for imaging**
  J. Griebel; Neuherberg/DE *(HERCA Chair of the Working Group on Medical Applications - BfS, Germany)*
  G. Roesems-Kerremans; Brussels/BE *(Deputy Head of Unit 'Health and Wellbeing' - DG CNECT, European Commission)*
  A. Rys; Brussels/BE *(Director Health systems and products - DG SANCO, European Commission)*
  G. Simeonov; Luxembourg/LU *(Policy Officer Radiation Protection Unit - DG ENER, European Commission)*

6 March — Friday, March 6, 16:00–17:30, Room Z

## PC 12b Medicolegal aspects in daily practice

LEVEL II

- **Chairman's introduction**
  J.I. Bilbao; Pamplona/ES
- **Inadequate consent, missed lesions and misinterpretation: legal challenges in radiology**
  E.J. Adam; London/UK
- **When is a radiologic error simply an error and when is it malpractice?**
  A. Cannavale; Rome/IT
- **The lawyer´s point of view**
  M. Ludvik; Vienna/AT
- **Panel discussion: How present are medicolegal aspects in our daily clinical practice?**

*Education and strategies in European radiology*

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# Multidisciplinary Sessions

The concept of these sessions is to promote a multidisciplinary approach to detection and treatment, integrating radiologists and other clinicians to share their expertise.

Places are allocated on a first-come, first-served basis.

# **Multidisciplinary** Sessions

5 March **Thursday, March 5, 16:00–17:30, Room M**

## MS 8 Critical limb ischaemia (CLI): limb salvage or life salvage?

LEVEL III

- **Chairman's introduction: critical limb ischaemia in daily practise**
  J.A. Reekers; Amsterdam/NL
- **Diagnostic imaging and outcome**
  M. Koelemay; Amsterdam/NL
- **The diabetic foot patient**
  N.C. Schaper; Maastricht/NL
- **Multidisciplinary team case discussion**

6 March **Friday, March 6, 08:30–10:00, Room F2**

## MS 9 Management of rectal cancer: a paradigm shift

LEVEL III

- **Chairman's introduction**
  R.G.H. Beets-Tan; Maastricht/NL
- **Organ-saving treatment: what does the surgeon want to know?**
  G.L. Beets; Maastricht/NL
- **Organ-saving treatment: what does the radiation oncologist want to know?**
  V. Valentini; Rome/IT
- **Organ-saving treatment: what is the radiologist's role?**
  R.G.H. Beets-Tan; Maastricht/NL
- **Interactive case discussion: What do clinicians expect from us in organ-saving treatment management?**

7 March **Saturday, March 7, 16:00–17:30, Studio 2015**

## MS 16 Solving the crossword puzzle in diffuse interstitial lung disease (DILD)

LEVEL III

- **Chairman's introduction**
  H.-U. Kauczor; Heidelberg/DE
- **Pulmologist's approach: the clinical aspects**
  F.J.F. Herth; Heidelberg/DE
- **Pathologist's approach and diagnosis**
  A. Gschwendtner; Amberg/DE
- **Radiologist's approach, patterns and diagnosis**
  C.P. Heussel; Heidelberg/DE
- **DILD-board: Multidisciplinary case presentation and discussion**

# European Excellence in Education ($E^3$)

The $E^3$ programme emphasises the importance of lifelong learning.

It covers the entire range of educational issues, from undergraduate medical education to subspecialised continuing professional development.

The $E^3$ programme consists of the following five branches, which reflect the different levels of education in radiology, as well as the different stages of an individual's professional career:

Rising Stars Programme

The Beauty of Basic Knowledge

European Diploma Prep Sessions

ECR Academies

ECR Master Classes

# Streamlined structure brings clarity to education at ECR 2015

By Mélisande Rouger

The ECR has been driven by innovation since its early days, and many additions and improvements have been made to the educational programme throughout the years. While these novelties have significantly enriched the congress programme, they may also have made it challenging for delegates to navigate through the huge range of sessions and symposia available at the Austria Center Vienna, which hosts the ECR every year in March.

This is the view of ECR 2015 President, Prof. Bernd Hamm from Berlin, who has decided to simplify education at the Congress by merging many of the educational session formats into the **European Excellence in Education ($E^3$) programme;** a change he expects will bring clarity to the programme.

"In recent years, there have been very innovative educational courses added to the ECR. However, in the final analysis, there has been a certain amount of confusion, for both participants and presenters. With the new and clearer course structure under one label, we hope to overcome this confusion," he said.

While proven session formats such as the Refresher Courses, Special Focus Sessions, State of the Art Symposia, Professional Challenges Sessions and New Horizons Sessions will still be on the schedule, the E3 programme will definitely help simplify the course plan.

It will cover the entire range of educational issues from undergraduate medical education to subspecialised continuing professional development, emphasising the importance of lifelong learning. To do so, it will feature the already existing Rising Stars and Beauty of Basic Knowledge sessions, and add new formats: the European Diploma Prep Sessions, ECR Academies and ECR Master Classes. These five branches will reflect the different levels of education in radiology, by covering all the different stages of an individual's professional career.

Residents, medical students and trainee radiographers have become regular guests at the ECR thanks to the **Rising Stars** initiative, which offers an interesting educational agenda and unique opportunities to attend the meeting either free of charge or for a significantly reduced fee. As a result, the number of participants has been growing steadily in recent years.

"The popularity and success of the programme has surpassed our expectations. Over 3,500 students attended the congress over the last three years, and that number is expected to rise at ECR 2015. The number of papers submitted by students in 2014 was close to 200, which also proves that interest in the programme is growing," noted Rising Stars patron, Prof. Małgorzata Szczerbo-Trojanowska from Lublin, Poland.

Approximately 30% of the submitted abstracts last year were from trainee radiographers, and so the organisers have prepared a programme reflecting the interests of radiographers. A session entitled 'How to write a good abstract and create the perfect presentation' has also been added to help participants.

To match demand, places in the **Invest in the Youth initiative,** one of the Rising Stars programme's main projects, have been increased from 360 to 700. The initiative invites residents and trainee radiographers under the age of 35 to submit their abstracts to the Rising Stars programme, and are offered an accommodation voucher worth 350 euros and free registration to the ECR in return. In addition, students and trainee radiographers under 30 without an academic title may also submit their abstracts; the 20 best submitters will receive free travel costs to Vienna, free registration to the congress and 350 euros for their accommodation.*

Furthermore, students under the age of 30 who don't have any academic title can now register for the ECR for a reduced fee of €40, regardless of the time of registration, and any medical student can attend the last day of the ECR free of charge.

The **Basic Sessions** have been a huge success at ECR 2014, with strong attendance and extremely positive feedback. Three sessions have been added to feed the growing interest, bringing the overall number of sessions to six. They will focus on neuroradiology, oncologic imaging, musculoskeletal trauma, interventional radiology, thoracic emergencies and breast imaging.

The sessions will be moderated by some of the most distinguished radiologists in Europe, which should benefit both the audience and the speakers, Prof. Szczerbo-Trojanowska believes.

"All great radiologists recognise the importance of education and raising interest in our specialty among young, talented and devoted doctors, students and radiographers. A leader's position is always bound to their educational activities; they are natural and enthusiastic teachers. They take the opportunity to present the specialty they love to the next generation as an obligation and with great gratification. Lectures in the Rising Stars programme are highly challenging. Speakers have to adapt the format of the lectures on complex matters to the ability of beginners. Such a difficult task can only be successfully taken on by those most experienced. It is very important to raise interest among the audience and avoid distracting them by making lectures too difficult or incomprehensible. I am sure that a lifelong interest in radiology can be initiated by a single encounter with a brilliant educator," she explained.

The two **Case-Based Diagnosis Training Sessions** should also be a much-welcomed feature. The sessions will be divided by a 30-minute interlude called 'Spot the implant – can you identify common and unusual medical devices inside the body?'

Another treat will be the **Radiology Trainees Forum (RTF) quiz,** moderated by the most famous contributor to the ESR blog, Prof. José Cáceres from Barcelona. "We are looking forward to this new event with great excitement and enthusiasm. It will be also an exceptional occasion to meet national RTF delegates and members of the RTF board, and should be of particular appeal to residents," Prof. Szczerbo-Trojanowska said.

Finally, the **Student Sessions** will focus on the role of the radiologist in the management of trauma patients, x-ray imaging and pregnancy, the role of radiographers in screening programmes, and practical topics such as 'my social/educational student project at my university'. As usual, the best presentation will be awarded during the final student session.

Residents, students and trainees are the future of radiology and the Rising Stars programme should give them the keys to familiarise themselves with a demanding and exciting discipline. "Students attending the ECR become acquainted with the cutting-edge achievements and recognise the trends for future development. They also have an opportunity to present their own work at a scientific conference, learn to carry scientific discussions and often identify new areas for research. Attending the ECR gives them a unique opportunity to get to know the leaders in the specialty and to make acquaintances and lifetime friendships with peers from all over the world," Prof. Szczerbo-Trojanowska said.

To provide even more support to young radiologists, ECR 2015 will feature a new type of session to help them prepare for the European Diploma in Radiology (EDiR), an increasingly important part of the aspiring radiologist's portfolio.

The **European Diploma Prep Sessions** will provide trainee radiologists with a concise overview of the diploma curriculum, which certifies a standard of radiological knowledge deemed appropriate by the ESR for independent practice in general radiology.

"I consider it very important for a young radiologist to take the EDiR examination, as it provides the candidate with a unique opportunity to demonstrate his or her knowledge and competence on a European level," said Prof. Birgit Ertl-Wagner from Munich, who will coordinate these sessions at ECR 2015.

The sessions will cover chapters from level I and II of the European Training Curriculum. They will be held in close cooperation with the European Board of Radiology (EBR), which organises the diploma.

The classes are relevant not only to EDiR, but also to everyday radiology practice. They are suitable for residents who want an overview of the various topics relevant to imaging and for those preparing for their national board examinations. The topics will focus on fundamentals of breast imaging, inflammation and tumours of the lung, imaging of the gastrointestinal tract, neurovascular disorders and trauma of the brain, bone tumours, and the principles of imaging and radiation protection.

Organisers are looking forward to having many participants. "Any radiologist is welcome to attend these sessions. Prior registration is not necessary," Prof. Ertl-Wagner said.

Residents and board-certified radiologists who want to refresh their knowledge should find the popular **Beauty of Basic Knowledge sessions,** which focus on knowledge essential to the daily practice of radiology, particularly attractive and appropriate to their level. The format of these sessions reflects the tradition of conventional teaching sessions, in which an experienced teacher shares his or her insights into a topic of particular relevance to a group of attendees.

At ECR 2015, the sessions will be divided in two main themes: skeletal radiology and breast imaging. In the former, areas such as tumoural MSK lesions, metabolic and endocrine disease, and plain radiographs will be tackled; in the latter, sessions will focus on breast ultrasound, breast cancer staging, and high risk lesions, among others.

The new **ECR Academies** consist of a series of sessions on emerging issues and should appeal to general radiologists or radiologists with a subspecialisation. Topics will include hybrid imaging, image-guided interventions in oncology, and modern imaging of the GI tract.

In addition, there will be sessions covering diagnostic urogenital radiology and interactive teaching sessions focusing on different aspects of radiology, such as changes of the gastrointestinal tract after treatment, the treated spine and joints, the treated breast, unexpected findings on brain MRI, cardiac CT, and diagnostic evaluation of bone tumours.

Finally, the **ECR Master Classes** are designed for participants and subspecialists seeking cutting-edge information in specific fields of interest. One ECR Master Class will be offered for each subspecialty in radiology (level III and beyond) and presented by experts in the field.

The classes will reflect state-of-the-art knowledge, as well as emerging trends, and tackle areas such as lung cancer staging, advances in paediatric imaging, cardiac MRI, radiogenomics, epilepsy, osteomyelitis, and the role of interventional radiology in trauma management, to name a few.

The members of the Programme Planning Committee and the ECR 2015 President hope that the E3 programme will help both the audience and the speakers.

"We expect that the new structure will make it easier for participants to choose the courses that will benefit them most. In addition, it might help speakers in preparing their presentations, by providing a clearer idea of the kind of audience to address. I am curious to see how the new session structure will be received by the audience and whether it turns out to be a good basis for further development in the years to come," Prof. Hamm said.

*Please note that to submit an abstract or poster you must be a member of the ESR.

# $E^3$ RISING STARS PROGRAMME

# $E^3$ – Rising Stars Programme

## Case-Based Diagnosis Training

8 March **Sunday, March 8, 13:00–14:00, Studio 2015**

### Case-Based Diagnosis Training – Part I LEVEL I

**Moderators:** K.M. Friedrich; Vienna/AT
S. Robinson; Vienna/AT

» **Neuro**
D. Prayer; Vienna/AT

» **Maxillofacial**
S. Robinson; Vienna/AT

» **Musculoskeletal**
F. Kainberger; Vienna/AT

» **Liver**
L. Martí-Bonmatí; Valencia/ES

» **Breast**
M.H. Fuchsjäger; Graz/AT

8 March **Sunday, March 8, 14:00–14:30, Studio 2015**

### Interlude: Spot the implant – can you identify common and unusual medical devices inside the body? LEVEL I

**Moderators:** W. Drahanowsky; Vienna/AT
S. Robinson; Vienna/AT

8 March **Sunday, March 8, 14:30–15:30, Studio 2015**

### Case-Based Diagnosis Training – Part II LEVEL I

**Moderators:** K.M. Friedrich; Vienna/AT
S. Robinson; Vienna/AT

» **Head and neck**
C. Czerny; Vienna/AT

» **Chest**
H. Prosch; Vienna/AT

» **Spine**
K.M. Friedrich; Vienna/AT

» **Gastrointestinal**
W. Schima; Vienna/AT

» **Genitourinary**
M. Toepker; Vienna/AT

## Radiology Trainees Forum Programme

5 March **Thursday, March 5, 13:30–14:30, Rising Stars Lounge**

### RTF Quiz

**Quiz-Master:** J. Cáceres; Barcelona/ES

7 March **Saturday, March 7, 10:30–12:00, Room M**

### RTF Highlighted Lectures

**Moderator:** t.b.a.

» **Ischemic cardiomyopathy - coronary arteries and myocardium: two sides of the same coin?**
R. Marano; Rome/IT

» **MRI appearances of incidental focal liver lesions: role of hepatocyte specific contrast agents and DWI**
S. Gourtsoyianni; London/UK

» **Radiology and sports injuries, more than reading the image!**
M. Maas; Amsterdam/NL (Member of ACES, Academic Center Evidence Based Sportsmedicine)

# E³ – Rising Stars Programme

## Basic Sessions

5 March **Thursday, March 5, 08:30–10:00, Studio 2015**

### Basic Session 1: Breast imaging

LEVEL I

- **Mammography**
  F.J. Gilbert; Cambridge/UK
- **Breast US**
  C.S. Balleyguier; Villejuif/FR
- **Breast MRI**
  F. Sardanelli; San Donato Milanese/IT

5 March **Thursday, March 5, 10:30–12:00, Studio 2015**

### Basic Session 2: Neuroradiology

LEVEL I

- **Aging and degeneration in the brain**
  B. Gómez-Ansón; Barcelona/ES
- **Brain trauma**
  M. Stajgis; Poznan/PL
- **Vascular malformations**
  P. Vilela; Almada/PT

6 March **Friday, March 6, 16:00–17:30, Studio 2015**

### Basic Session 3: Oncologic imaging

LEVEL I

- **Prostate cancer**
  J.O. Barentsz; Nijmegen/NL
- **Pancreatic cancer**
  F. Caseiro-Alves; Coimbra/PT
- **Musculoskeletal neoplasms**
  M.F. Reiser; Munich/DE

7 March **Saturday, March 7, 08:30–10:00, Studio 2015**

### Basic Session 4: Musculoskeletal trauma

LEVEL I

- **Shoulder**
  M. Zanetti; Zurich/CH
- **Knee**
  K. Verstraete; Ghent/BE
- **Ankle**
  J. Kramer; Linz/AT

7 March **Saturday, March 7, 10:30–12:00, Studio 2015**

### Basic Session 5: Thoracic emergencies

LEVEL I

- **Vascular**
  T. Jargiello; Lublin/PL
- **Pulmonary**
  C.M. Schaefer-Prokop; Amersfoort/NL
- **Cardiac**
  V.E. Sinitsyn; Moscow/RU

8 March **Sunday, March 8, 08:30–10:00, Room L 1**

### Basic Session 6: Interventional radiology

LEVEL I

- **Uterine Fibroid Embolisation**
  T.J. Kroencke; Augsburg/DE
- **Management of trauma patients**
  M. Krokidis; Cambridge/UK
- **Varicocele**
  P. Haage; Wuppertal/DE

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# $E^3$
# THE BEAUTY OF BASIC KNOWLEDGE

The Beauty of Basic Knowledge programmes focus on knowledge essential to the daily practice of radiology. The format of these sessions reflects the tradition of conventional teaching sessions, in which an experienced teacher shares his or her insights into a topic of particular relevance with a group of attendees.

A Beauty of Basic Knowledge session typically consists of a 45-minute lecture held by one speaker (plus 15 minutes for conclusions and discussion). The teaching format is usually case based with some interaction with the attendees.

The content of the sessions is mostly tied to the Level I and Level II European Training Curriculum (ETC) learning objectives. The Beauty of Basic Knowledge sessions are suited to residents and board-certified radiologists who want to refresh their knowledge in basic topics of imaging and image-guided therapy.

# E³ – The Beauty of Basic Knowledge

## Skeletal Radiology

*The programme will be concluded with a self-assessment test, which will be available to ECR delegates during the congress and afterwards online in the ‚ESR Self-Assessment' platform.*

**Moderator:** V.N. Cassar-Pullicino; Oswestry/UK

4 March — Wednesday, March 4, 12:30–13:30, Room D1

**E³ 24A** **Plain radiographs: analysis and interpretation** LEVEL I+II

I. McCall; Devon/UK

5 March — Thursday, March 5, 12:30–13:30, Room D1

**E³ 24B** **The concept of degeneration: the tendons** LEVEL I+II

K. Bohndorf; Vienna/AT

6 March — Friday, March 6, 12:30–13:30, Room D1

**E³ 24C** **Inflammatory/infectious disorders** LEVEL I+II

V.N. Cassar-Pullicino; Oswestry/UK

7 March — Saturday, March 7, 12:30–13:30, Room D1

**E³ 24D** **Tumoural and pseudotumoural MSK lesions** LEVEL I+II

K. Verstraete; Ghent/BE

8 March — Sunday, March 8, 12:30–13:30, Room D1

**E³ 24E** **Metabolic, endocrine and marrow disease** LEVEL I+II

B. Vande Berg; Brussels/BE

## Breast Imaging

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**Moderator:** J. Camps Herrero; Valencia/ES

4 March — Wednesday, March 4, 12:30–13:30, Room B

**E³ 25A** **Breast ultrasound: a primer** LEVEL I

A. Tardivon; Paris/FR

5 March — Thursday, March 5, 12:30–13:30, Room B

**E³ 25B** **Cracking the mystery of needles and gauges** LEVEL I

R.M. Pijnappel; Utrecht/NL

6 March — Friday, March 6, 12:30–13:30, Room B

**E³ 25C** **Breast cancer staging: why and how** LEVEL II

K. Kinkel; Chêne-Bougeries/CH

7 March — Saturday, March 7, 12:30–13:30, Room B

**E³ 25D** **Ductal carcinoma in situ (DCIS): small tumour but big problem** LEVEL II

G. Forrai; Budapest/HU

8 March — Sunday, March 8, 12:30–13:30, Room B

**E³ 25E** **High risk lesions: solving the dilemma** LEVEL II

A. Linda; Udine/IT

# $E^3$
# EUROPEAN DIPLOMA PREP SESSIONS

The European Diploma Prep Sessions aim to prepare prospective candidates for the European Diploma in Radiology (EDiR).

They are also suitable for residents who want an overview of the various topics relevant to imaging and for those preparing for their national board examinations.

The content of the programme reflects Level I and Level II European Training Curriculum (ETC) learning objectives across a two-year cycle. The sessions are held in close cooperation with the European Board of Radiology (EBR).

Each of the six sessions is led by three lecturers and moderated by one chairman.

# E³ – European Diploma Prep Sessions

7 March **Saturday, March 7, 08:30–10:00, Room N**

## E³ 1323 Chest

LEVEL I+II

» **Chairman's introduction**
J. Vilar; Valencia/ES

**A. Fundamentals of chest imaging**
D. Tack; Baudour/BE

**B. Inflammation and tumours of the lung**
H. Prosch; Vienna/AT

**C. Mediastinum, pleura and chest wall**
N. Howarth; Chêne-Bougeries/CH

7 March **Saturday, March 7, 10:30–12:00, Room N**

## E³ 1423 Gastrointestinal and abdominal

LEVEL I+II

» **Chairman's introduction**
C. Stoupis; Männedorf/CH

**A. Hepatobiliary system**
Y. Menu; Paris/FR

**B. Pancreas and spleen**
W. Schima; Vienna/AT

**C. Imaging of the gastrointestinal tract**
R.G.H. Beets-Tan; Maastricht/NL

7 March **Saturday, March 7, 14:00–15:30, Room N**

## E³ 1523 Musculoskeletal

LEVEL I+II

» **Chairman's introduction**
F.M.H.M. Vanhoenacker; Antwerp/BE

**A. Traumatic disorders of the musculoskeletal system**
M. Maas; Amsterdam/NL

**B. Bone tumours**
S. James; Birmingham/UK

**C. Degenerative and inflammatory disorders of the musculoskeletal system**
K.-G. Hermann; Berlin/DE

7 March **Saturday, March 7, 16:00–17:30, Room N**

## E³ 1623 Breast

LEVEL I+II

» **Chairman's introduction**
F. Pediconi; Rome/IT

**A. Fundamentals of mammography**
S. Barter; Cambridge/UK

**B. Breast cancer diagnosis and interventions**
M. Müller-Schimpfle; Frankfurt a. Main/DE

**C. Advanced imaging of the female breast**
R.M. Mann; Nijmegen/NL

8 March **Sunday, March 8, 10:30–12:00, Room N**

## E³ 1823 Neuro

LEVEL I+II

» **Chairman's introduction**
B. Ertl-Wagner; Munich/DE

**A. Congenital and white matter disorders of the brain**
A. Rossi; Genoa/IT

**B. Neurovascular disorders and trauma of the brain**
M. Forsting; Essen/DE

**C. Tumours of the brain and spine**
M.M. Thurnher; Vienna/AT

8 March **Sunday, March 8, 14:00–15:30, Room N**

## E³ 1923 Principles of imaging and radiation protection

LEVEL I+II

ESR EUROSAFE IMAGING

» **Chairman's introduction**
P. Vock; Spiegel/CH

**A. Principles of computed tomography**
W.A. Kalender; Erlangen/DE

**B. Principles of magnetic resonance imaging**
T. Metens; Brussels/BE

**C. Radiation protection**
M. Mahesh; Baltimore, MD/US

*This session is part of the EuroSafe Imaging campaign.*

# $E^3$
# ECR Academies

The ECR Academies consist of a series of four to six sessions relevant to a particular area of radiology. This may be a classic organ-based field or a technically oriented area of another field related to radiology, such as management. Each ECR Academy spans several days, in which the different facets of the area in question are covered by experts in the field. An ECR Academy is a coherent course in which the different sessions complement one another in order to reflect the entirety of the field.

The ECR Academies are particularly suited to general radiologists or radiologists with a subspecialisation.

# E³ – ECR Academies

## Hybrid Imaging (basic)

*The programme will be concluded with a self-assessment test, which will be available to ECR delegates during the congress and afterwards online in the 'ESR Self-Assessment' platform.*

4 March — Wednesday, March 4, 16:00–17:30, Room K

### E³ 418 Scanners and tracers — LEVEL II

**Moderator:** G. Antoch; Düsseldorf/DE

**A. Hybrid imaging: what systems are available and how do they work**
T. Beyer; Vienna/AT

**B. Radionuclides for PET/CT and MR/PET**
M. Hacker; Vienna/AT

**C. Radiopharmaceuticals for SPECT/CT**
J.R. Ballinger; London/UK

5 March — Thursday, March 5, 08:30–10:00, Room K

### E³ 518 Imaging protocols for PET/CT and MR/PET — LEVEL II

**Moderator:** C. Pfannenberg; Tübingen/DE

**A. Does it make sense to use CT-contrast agents in PET/CT**
G. Antoch; Düsseldorf/DE

**B. PET/CT imaging protocols**
A. Scarsbrook; Leeds/UK

**C. MR/PET imaging protocols**
O. Ratib; Geneva/CH

5 March — Thursday, March 5, 16:00–17:30, Room K

### E³ 818 Essentials of hybrid imaging — LEVEL II

**Moderator:** R. McDermott; Dublin/IE

**A. Normal variants and pitfalls**
G. Cook; London/UK

**B. The SUV: when does its use make sense?**
P. Veit-Haibach; Zurich/CH

**C. Indications for hybrid imaging in radiation therapy planning**
D. Georg; Vienna/AT

6 March — Friday, March 6, 08:30–10:00, Room K

### E³ 918 Indications for hybrid imaging in ... — LEVEL II

**Moderator:** T.H. Helbich; Vienna/AT

**A. Oncology**
N. Schwenzer; Tübingen/DE

**B. Neurology**
A. Buck; Zurich/CH

**C. Cardiology**
S.G. Nekolla; Munich/DE

## Hybrid Imaging (advanced)

*The programme will be concluded with a self-assessment test, which will be available to ECR delegates during the congress and afterwards online in the 'ESR Self-Assessment' platform.*

6 March — Friday, March 6, 16:00–17:30, Room K

### E³ 1218 MR/PET - future of hybrid imaging? — LEVEL III

**Moderator:** R.A. Coulden; Leicester/UK

**A. For which indications is MR/PET better than PET/CT?**
L. Umutlu; Essen/DE

**B. MR/PET technology: state of the art**
A. Cuocolo; Naples/IT

**C. Diffusion weighted MRI vs PET in oncology**
F. Giesel; Heidelberg/DE

7 March — Saturday, March 7, 08:30–10:00, Room K

### E³ 1318 Advanced imaging with tracers beyond FDG — LEVEL III

**Moderator:** B. Tavitian; Paris/FR

**A. Neuroendocrine tumours**
S. Fanti; Bologna/IT

**B. Prostate cancer**
M.C. Roethke; Heidelberg/DE

**C. Coronary atherosclerotic plaque**
M.R. Dweck; Edinburgh/UK

7 March — Saturday, March 7, 14:00–15:30, Room K

### E³ 1518 Advanced hybrid imaging of brain — LEVEL III

**Moderator:** G. Morana; Genoa/IT

**A. Memory decline**
L. Nyberg; Umea/SE

**B. Minimal cognitive impairment and dementia**
J.O. Rinne; Turku/FI

**C. Brain tumours**
P. Bartenstein; Munich/DE

7 March — Saturday, March 7, 16:00–17:30, Room K

### E³ 1618 Advanced hybrid imaging in oncology — LEVEL III

**Moderator:** K. Åhlström Riklund; Umea/SE

**A. In female pelvis**
P.R. Ros; Cleveland, OH/US

**B. In head neck cancer**
M. Becker; Geneva/CH

**C. In modern planning of radiation treatment**
U. Nestle; Freiburg/DE

# E³ – ECR Academies

## Image-Guided Interventions in Oncology

*The programme will be concluded with a self-assessment test, which will be available to ECR delegates during the congress and afterwards online in the 'ESR Self-Assessment' platform.*

5 March **Thursday, March 5, 08:30–10:00, Room N**

### E³ 519 Hepatic primary tumours: 'prime time' for interventional radiologists? LEVEL II+III

» **Chairman's introduction**
M. Bezzi; Rome/IT

**A. Percutaneous techniques: the clinical value of minimally invasive options**
B. Gebauer; Berlin/DE

**B. Intra-arterial therapies 2.0: the embolising techniques in the era of the micro-beads**
A. Denys; Lausanne/CH

**C. Intra-arterial therapies 2.0: radioembolisation as a common daily practice**
J.I. Bilbao; Pamplona/ES

5 March **Thursday, March 5, 16:00–17:30, Room N**

### E³ 819 Kidney, lung and bone: an update on oncologic therapy LEVEL III

» **Chairman's introduction**
A.D. Kelekis; Athens/GR

**A. Renal cell carcinoma: when and how can we an compete with surgeons**
R.F. Grasso; Rome/IT

**B. Lung tumours: the clinical evidence for percutaneous techniques**
T. de Baère; Villejuif/FR

**C. Image-guided therapies for bone tumours**
A. Gangi; Strasbourg/FR

6 March **Friday, March 6, 08:30–10:00, Room N**

### E³ 919 Colorectal liver metastases: the emerging role of interventional radiologists in oncology LEVEL II+III

» **Chairman's introduction**
P.L. Pereira; Heilbronn/DE

**A. Tumour ablation: when and how in a modern oncological setting**
V. Válek; Brno/CZ

**B. Intra-arterial drug delivery: the state of art**
M. Bezzi; Rome/IT

**C. Intra-arterial radiation delivery - when and how: the clinical evidence**
T.K. Helmberger; Munich/DE

6 March **Friday, March 6, 16:00–17:30, Room N**

### E³ 1219 The cutting-edge technologies in image-guided tumour therapy LEVEL III

» **Chairman's introduction**
M. Krokidis; Cambridge/UK

**A. HIFU: The ultrasound guidance**
F. Orsi; Milan/IT

**B. HIFU: The magnetic resonance guidance**
A. Napoli; Rome/IT

**C. Update on irreversible electroporation**
A. Nilsson; Uppsala/SE

# E³ – ECR Academies

## Diagnostic Urogenital Radiology

*The programme will be concluded with a self-assessment test, which will be available to ECR delegates during the congress and afterwards online in the 'ESR Self-Assessment' platform.*

5 March — Thursday, March 5, 08:30–10:00, Room MB 5

### E³ 520 Kidney

LEVEL II+III

**Moderator:** C. Nicolau; Barcelona/ES

**A. Differential diagnoses of cystic renal masses**
M. Claudon; Vandoeuvre-les-Nancy/FR

**B. Differential diagnoses of solid renal masses**
S.H. Kim; Seoul/KR

**C. Acute and chronic renal infection**
J. Lopes Dias; Lisbon/PT

5 March — Thursday, March 5, 10:30–12:00, Room MB 5

### E³ 620 Retroperitoneum and adrenals

LEVEL II+III

**Moderator:** F.M. Danza; Rome/IT

**A. Anatomy and imaging techniques of the retroperitoneum**
M.C. Roethke; Heidelberg/DE

**B. Differential diagnoses of retroperitoneal masses**
M.-F. Bellin; Le Kremlin-Bicêtre/FR

**C. Differential diagnoses of adrenal lesions**
G. Heinz-Peer; St. Pölten/AT

5 March — Thursday, March 5, 14:00–15:30, Room MB 5

### E³ 720 Prostate

LEVEL II+III

**Moderator:** J.J. Fütterer; Nijmegen/NL

**A. Ultrasound of the prostate**
J. Venancio; Lisbon/PT

**B. Multiparametric MRI of the prostate**
G.M. Villeirs; Gent/BE

**C. Staging of prostate cancer**
A.R. Padhani; London/UK

5 March — Thursday, March 5, 16:00–17:30, Room MB 5

### E³ 820 Upper and lower urinary tract

LEVEL II+III

**Moderator:** N. Grenier; Bordeaux/FR

**A. CTU and MRU of the upper urinary tract**
N.C. Cowan; Birmingham/UK

**B. Imaging of kidney and ureter**
M.A. Cova; Trieste/IT

**C. Imaging of bladder and urethra**
T. El-Diasty; Mansoura/EG

6 March — Friday, March 6, 08:30–10:00, Room MB 5

### E³ 920 Gynaecology

LEVEL II+III

**Moderator:** T.M. Cunha; Lisbon/PT

**A. MR imaging techniques and normal anatomy of the female pelvis**
C.S. Balleyguier; Villejuif/FR

**B. Staging of cervical cancer**
R. Forstner; Salzburg/AT

**C. Differential diagnoses of adnexal masses**
S. Swift; Leeds/UK

6 March — Friday, March 6, 10:30–12:00, Room MB 5

### E³ 1020 Emergencies

LEVEL II+III

**Moderator:** R.H. Oyen; Leuven/BE

**A. Male pelvis emergencies**
M. Bertolotto; Trieste/IT

**B. Gynaecological emergencies**
R.A. Kubik-Huch; Baden/CH

**C. Imaging of obstetric and puerperal emergencies**
J. McHugo; Birmingham/UK

= Interactive session with electronic voting/self assessment

# E³ – ECR Academies

## Interactive Teaching Sessions

4 March **Wednesday, March 4, 08:30–10:00, Room A**

### E³ 121 Changes of the gastrointestinal tract after treatment

LEVEL II

**A. Gastrointestinal tumours**
A. Laghi; Latina/IT

**B. Non-tumoural intestinal diseases**
J. Rimola; Barcelona/ES

4 March **Wednesday, March 4, 10:30–12:00, Room A**

### E³ 221 The treated breast: what you need to know

LEVEL II

**A. Imaging after treatment of benign breast conditions**
J. Camps Herrero; Valencia/ES

**B. Imaging after treatment of breast cancer**
M.H. Fuchsjäger; Graz/AT

5 March **Thursday, March 5, 08:30–10:00, Room A**

### E³ 521 What to look for after treatment of lung cancer

LEVEL II

**A. Imaging of surgically treated lung cancer**
C.P. Heussel; Heidelberg/DE

**B. Imaging of non-surgical treatment of lung cancer**
B. Ghaye; Brussels/BE

5 March **Thursday, March 5, 10:30–12:00, Room A**

### E³ 621 The treated liver

LEVEL II

**A. Imaging of liver transplantation**
J.B. Karani; London/UK

**B. Imaging of treated liver tumours**
I. Bargellini; Pisa/IT

5 March **Thursday, March 5, 14:00–15:30, Room A**

### E³ 721 The treated spine and joints

LEVEL II

**A. Imaging of the postoperative spine**
P.N.M. Tyrrell; Oswestry/UK

**B. Imaging of joint replacement**
M. Zanetti; Zurich/CH

5 March **Thursday, March 5, 16:00–17:30, Room A**

### E³ 821 Central nervous system changes after treatment: what you need to know

LEVEL II

**A. Drug-related conditions**
F. Barkhof; Amsterdam/NL

**B. Imaging of treated brain tumours**
J. Alvarez-Linera; Madrid/ES

6 March **Friday, March 6, 08:30–10:00, Room A**

### E³ 921 Thoracic changes after treatment

LEVEL II

**A. Drug-related conditions**
T. Franquet; Barcelona/ES

**B. Device-related conditions**
G.R. Ferretti; Grenoble/FR

6 March **Friday, March 6, 10:30–12:00, Room A**

### E³ 1021 Head and neck cancer after treatment: what you need to know

LEVEL II

**A. Imaging after surgical treatment**
M. Lell; Erlangen/DE

**B. Imaging after radiotherapy/chemotherapy**
T. Beale; London/UK

= Interactive session with electronic voting/self assessment

# E³ – ECR Academies

## Interactive Teaching Sessions

6 March **Friday, March 6, 16:00–17:30, Room A**

### E³ 1221 Unexpected findings on brain MRI

LEVEL I+II

**A. Hydrocephalus: atrophy or just normal**
S. Langner; Greifswald/DE

**B. Incidental lesions on a brain MRI**
E.T. Tali; Ankara/TR

7 March **Saturday, March 7, 08:30–10:00, Room A**

### E³ 1321 Diagnostic evaluation of bone tumours

LEVEL I+II

**A. Bone tumours: benign or malignant?**
H.-J. van der Woude; Amsterdam/NL

**B. Pseudotumours: mimic bone tumours**
F.M.H.M. Vanhoenacker; Antwerp/BE

7 March **Saturday, March 7, 14:00–15:30, Room A**

### E³ 1521 Skull base lesions

LEVEL II

**A. Imaging of the cavernous sinus and the anterior skull base**
D. Farina; Brescia/IT

**B. Imaging of the central skull base**
D.-A. Varoquaux; Marseille/FR

7 March **Saturday, March 7, 16:00–17:30, Room A**

### E³ 1621 Cardiac imaging

LEVEL III

**A. Patterns of delayed enhancement**
P. Hunold; Lübeck/DE

**B. Cardiomyopathies: from diagnosis to prognosis**
A. Jacquier; Marseille/FR

8 March **Sunday, March 8, 08:30–10:00, Room A**

### E³ 1721 Cardiac CT: from stenosis assessment to risk stratification

LEVEL III

**A. CT for risk stratification**
R. Marano; Rome/IT

**B. Cardiac CT in the emergency room**
G. Feuchtner; Innsbruck/AT

8 March **Sunday, March 8, 10:30–12:00, Room A**

### E³ 1821 Evaluation of patients with lung emphysema

LEVEL I+II

**A. Pretherapeutic evaluation of lung emphysema**
M. Prokop; Nijmegen/NL

**B. Diagnostic work-up after treatment of lung emphysema**
N. Sverzellati; Parma/IT

= Interactive session with electronic voting/self assessment

# E³ – ECR Academies

## Modern Imaging of the GI Tract

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6 March — Friday, March 6, 16:00–17:30, Room C

### E³ 1222 Perianal fistula disease: all you need to know

LEVEL II

**Moderator:** D. Weishaupt; Zurich/CH

**A. Perianal anatomy and imaging techniques**
K. Horsthuis; Amsterdam/NL

**B. Perianal fistula disease: the basics**
S. Halligan; London/UK

**C. Perianal fistula disease: advanced**
F. Maccioni; Rome/IT

**D. Interactive case discussion**
D. Weishaupt; Zurich/CH

7 March — Saturday, March 7, 08:30–10:00, Room C

### E³ 1322 Imaging the postoperative patient

LEVEL I+II

**Moderator:** A. Graser; Munich/DE

**A. What the surgeon does: surgical procedures and normal postoperative anatomy**
M.M. Maher; Cork/IE

**B. Do I need to re-operate? Postoperative imaging and immediate complications**
D.J.M. Tolan; Leeds/UK

**C. It still hurts: follow-up imaging and long-term complications**
L. Curvo-Semedo; Coimbra/PT

**D. Interactive case discussion**
A. Graser; Munich/DE

7 March — Saturday, March 7, 10:30–12:00, Room A

### E³ 1422 Inflammatory bowel disease

LEVEL II+III

**Moderator:** S.A. Taylor; London/UK

**A. Cross-sectional imaging protocols**
M.A. Patak; Zurich/CH

**B. Small bowel disease**
J. Stoker; Amsterdam/NL

**C. Colitis**
J. Rimola; Barcelona/ES

**D. Interactive case discussion**
S.A. Taylor; London/UK

7 March — Saturday, March 7, 14:00–15:30, Room C

### E³ 1522 Rectal cancer

LEVEL II+III

**Moderator:** L. Blomqvist; Stockholm/SE

**A. Imaging protocols**
S. Gourtsoyianni; London/UK

**B. Challenges in staging, treatment decisions and surgery for high rectal cancer**
L. Curvo-Semedo; Coimbra/PT

**C. Assessment after neoadjuvant treatment**
R.G.H. Beets-Tan; Maastricht/NL

**D. Interactive case discussion**
L. Blomqvist; Stockholm/SE

7 March — Saturday, March 7, 16:00–17:30, Room C

### E³ 1622 Oesophageal and gastric cancer

ALL LEVELS

**Moderator:** W. Schima; Vienna/AT

**A. Modern imaging: an update**
A. Ba-Ssalamah; Vienna/AT

**B. How to provide the perfect staging report**
R.M. Mendelson; Perth, WA/AU

**C. Assessment after treatment**
A.M. Riddell; Sutton/UK

**D. Interactive case discussion**
W. Schima; Vienna/AT

8 March — Sunday, March 8, 08:30–10:00, Room C

### E³ 1722 Gastrointestinal stromal tumours (GIST)

LEVEL II+III

**Moderator:** M. Zins; Paris/FR

**A. Pathology and treatment options**
B. Seddon; London/UK

**B. Disease staging and treatment planning**
C. Hoeffel; Reims/FR

**C. Treatment response assessment and disease follow-up**
A. Graser; Munich/DE

**D. Interactive case discussion**
M. Zins; Paris/FR

= Interactive session with electronic voting/self assessment

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# $E^3$
# ECR Master Classes

The ECR Master Classes focus on continuous professional development and lifelong learning. The classes are designed for subspecialised radiologists seeking cutting-edge information in their particular fields of interest. They are held by experts in the field and reflect state-of-the-art knowledge, as well as emerging trends.

During the ECR, one ECR Master Class is offered for each subspecialty in radiology (CIRSE [one on vascular and one on interventional radiology], ESCR, ESER, ESGAR, ESHNR, ESMOFIR, ESNR, ESOI, ESPR, ESSR, ESTI, ESUR, EUSOBI).

# E³ – ECR Master Classes

5 March **Thursday, March 5, 16:00–17:30, Room D1**

## Chest
## E³ 826 Lung cancer staging

LEVEL III

**Moderator:** E. Castañer; Sabadell/ES

**A. Limitations and perspectives**
A.R. Larici; Rome/IT

**B. CT phenotypes of adenocarcinoma**
M. Das; Maastricht/NL

**C. Functional imaging of lung cancer heterogeneity**
O.L. Sedlaczek; Heidelberg/DE

6 March **Friday, March 6, 08:30–10:00, Room MB 2**

## Paediatric
## E³ 926a Advances in paediatric imaging

LEVEL III

**Moderator:** P. Tomà; Rome/IT

**A. The CNS**
J.F. Schneider; Basle/CH

**B. The MSK - infectious inflammatory disorders**
M. Alison; Paris/FR

**C. The abdomen**
M. Raissaki; Iraklion/GR

6 March **Friday, March 6, 08:30–10:00, Room MB 3**

## Interventional Radiology
## E³ 926b The leading role of interventional radiology in a major trauma center

LEVEL III

» **Chairman's introduction: logistics and imaging of trauma: what do we really need?**
A.-M. Belli; London/UK

**A. Chest trauma**
J. Lammer; Vienna/AT

**B. Upper abdominal trauma**
O.M. van Delden; Amsterdam/NL

**C. Pelvic trauma: not only arteries**
R. Bale; Innsbruck/AT

6 March **Friday, March 6, 08:30–10:00, Room MB 1**

## Vascular
## E³ 926c Uterine and prostate embolisation

LEVEL III

**Moderator:** T. Sabharwal; London/UK

**A. Symptomatic uterine fibroids**
J.-P. Pelage; Caen/FR

**B. Benign hypertrophy of the prostate**
H. Rio Tinto; Lisbon/PT

**C. Post-partum haemorrhage (PPH)**
T.J. Kroencke; Augsburg/DE

6 March **Friday, March 6, 16:00–17:30, Room G**

## Genitourinary
## E³ 1226a Urogenital radiology in 2015: beyond morphology?

LEVEL III

**Moderator:** H.C. Thoeny; Berne/CH

**A. Where are we in measuring kidney function with imaging?**
N. Grenier; Bordeaux/FR

**B. The added value of DWI in gynaecological malignancies: the ADC and beyond**
A.G. Rockall; London/UK

**C. Will genomics change imaging? Renal cancer as a case study**
P.L. Choyke; Bethesda, MD/US

6 March **Friday, March 6, 16:00–17:30, Room MB 4**

## Emergency Radiology
## E³ 1226b Acute postoperative complications in the abdomen: from diagnosis to therapy

LEVEL III

» **Chairman's introduction: the role of imaging in the early detection of postsurgical complications**
D.R. Kool; Nijmegen/NL

**A. Gastrointestinal tract**
M.A. Patak; Zurich/CH

**B. Liver and pancreas**
S. Wirth; Munich/DE

**C. Genitourinary tract**
R.H. Oyen; Leuven/BE

» **Panel discussion: Time is gold - where and when can we go faster?**

= Interactive session with electronic voting/self assessment

# E³ – ECR Master Classes

6 March **Friday, March 6, 16:00–17:30, Room MB 2**

## Cardiac
## E³ 1226c Cardiac MR imaging

LEVEL III

**Moderator:** P. Croisille; Saint-Etienne/FR

**A. T1 and T2 mapping**
C. Lücke; Leipzig/DE

**B. Quantification of myocardial perfusion by MRI**
K. Kitagawa; Mie/JP

**C. 4D MR perfusion imaging of the myocardium**
R. Manka; Zurich/CH

6 March **Friday, March 6, 16:00–17:30, Room MB 1**

## Molecular Imaging
## E³ 1226d Chemical exchange saturation transfer (CEST): a new toy for molecular imaging?

LEVEL III

**Moderator:** O. Clément; Paris/FR

**A. Physical principle**
M. Bock; Freiburg/DE

**B. Probes**
S. Aime; Turin/IT

**C. Clinical applications**
S. Walker-Samuel; London/UK

7 March **Saturday, March 7, 08:30–10:00, Room F1**

## Oncologic Imaging
## E³ 1326 Imaging tumour phenotype: the future is now

LEVEL III

**Moderator:** D. Regge; Turin/IT

**A. Radiogenomics for cancer: phenotypic and genomic heterogeneity**
P.L. Choyke; Bethesda, MD/US

**B. Imaging tumour heterogeneity and perfusion: predicting tumour behaviour**
V.J. Goh; London/UK

**C. Molecular imaging: visualising the characteristics of cancer cells**
G. Cook; London/UK

7 March **Saturday, March 7, 14:00–15:30, Room B**

## Abdominal and Gastrointestinal
## E³ 1526 Advances in liver imaging

LEVEL III

**Moderator:** F. Caseiro-Alves; Coimbra/PT

**A. Molecular imaging: where we go?**
F.M.A. Kiessling; Aachen/DE

**B. Liver perfusion or diffusion?**
M. Ronot; Clichy/FR

**C. MR/PET: blessing or curse?**
P.R. Ros; Cleveland, OH/US

7 March **Saturday, March 7, 16:00–17:30, Room E1**

## Head and Neck
## E³ 1626a Cone-beam vs multi-detector CT in head and neck imaging

LEVEL III

**Moderator:** A. Trojanowska; Lublin/PL

**A. Understanding image quality and radiation dose in MDCT and CBCT**
M. Kachelrieß; Heidelberg/DE

**B. My finest cone-beam CT cases**
J.W. Casselman; Bruges/BE

**C. What can be missed on cone-beam CT: pitfalls and challenges**
R. Maroldi; Brescia/IT

» **Panel discussion: Cone-beam vs multi-detector CT: pro's and con's**
A. Trojanowska; Lublin/PL

7 March **Saturday, March 7, 16:00–17:30, Room F2**

## Breast
## E³ 1626b Breast imaging: improving the information to women

LEVEL III

» **Chairman's introduction**
F. Sardanelli; San Donato Milanese/IT

**A. Overdiagnosis in breast cancer screening**
N. Houssami; Sydney/AU

**B. Breast density, interval cancers, and underdiagnosis**
R.M. Pijnappel; Utrecht/NL

**C. Preoperative breast MRI**
K. Pinker-Domenig; Vienna/AT

» **Panel discussion: How to deliver information to women on difficult and complex issues?**

= Interactive session with electronic voting/self assessment

# E³ – ECR Master Classes

7 March

**Saturday, March 7, 16:00–17:30, Room G**

## Neuro
## E³ 1626c Epilepsy

LEVEL III

**Moderator:** T. Stosic-Opincal; Belgrade/RS

**A. How to image epilepsy in children and adults**
K. Koprivsek; Sremska Kamenica/RS

**B. How to report MRI in patients with epilepsy**
D. Zlatareva; Sofia/BG

**C. MRI, electroclinical and neuropathological correlations**
N. Colombo; Milan/IT

8 March

**Sunday, March 8, 08:30–10:00, Room E1**

## Musculoskeletal
## E³ 1726 Osteomyelitis versus gout: what are the pearls?

LEVEL III

**Moderator:** L.M. Sconfienza; San Donato Milanese/IT

**A. X-ray: classical patterns and challenging features**
A. Cotten; Lille/FR

**B. MRI features and their differential diagnosis**
S. J. Ostlere; Oxford/UK

**C. Ultrasound and DECT features in gout**
A. Klauser; Innsbruck/AT

= Interactive session with electronic voting/self assessment

# Mini Course

The Joint Course of the ESR and RSNA (Radiological Society of North America) focuses on emergency radiology.

Places are allocated on a first-come, first-served basis.

Please note that you can only take part in electronic voting via your own device (smartphone, tablet, laptop) by connecting to the WiFi network of the lecture room you are in. Once connected, you will be automatically directed to the voting website. No app required.

# **Mini** Course

## **Joint Course of the ESR and RSNA** (Radiological Society of North America): **Emergency Radiology**

5 March **Thursday, March 5, 08:30–10:00, Room MB 4**

### MC 528 Abdominal emergencies

LEVEL I

**Moderators:** S.E. Mirvis; Baltimore, MD/US
A. Palkó; Szeged/HU

**A. Abdominal injuries**
A. Palkó; Szeged/HU

**B. The enemy within: non-traumatic abdominal emergencies**
R.J. Zagoria; San Francisco, CA/US

**C. Interactive case discussion**
A. Palkó; Szeged/HU
R.J. Zagoria; San Francisco, CA/US

5 March **Thursday, March 5, 10:30–12:00, Room MB 4**

### MC 628 Chest emergencies

LEVEL I

**Moderators:** S.E. Mirvis; Baltimore, MD/US
A. Palkó; Szeged/HU

**A. Thoracic injuries**
S.E. Mirvis; Baltimore, MD/US

**B. Non-traumatic thoracic emergencies**
C.M. Schaefer-Prokop; Amersfoort/NL

**C. Interactive case discussion**
S.E. Mirvis; Baltimore, MD/US
C.M. Schaefer-Prokop; Amersfoort/NL

5 March **Thursday, March 5, 14:00–15:30, Room MB 4**

### MC 728 CNS emergencies

LEVEL I

**Moderators:** S.E. Mirvis; Baltimore, MD/US
A. Palkó; Szeged/HU

**A. CNS trauma and neurovascular injury**
H.A. Rowley; Madison, WI/US

**B. CNS non-traumatic emergencies**
M. Smits; Rotterdam/NL

**C. Interactive case discussion**
H.A. Rowley; Madison, WI/US
M. Smits; Rotterdam/NL

5 March **Thursday, March 5, 16:00–17:30, Room MB 4**

### MC 828 General principles: paediatric and ENT emergencies

LEVEL I

**Moderators:** S.E. Mirvis; Baltimore, MD/US
A. Palkó; Szeged/HU

**A. General principles**
U. Linsenmaier; Munich/DE

**B. Challenges of imaging paediatric abdominal emergencies**
C.J. Sivit; Cleveland, OH/US

**C. Imaging in ENT emergencies**
D. Nunez; New Haven, CT/US

**= Interactive session with electronic voting/self assessment**

# Pros & Cons Session

The Pros & Cons Session will examine the controversial topic: 'Breast cancer: to screen or not to screen?' The session will be split into one interactive and one non-interactive part.

5 March **Thursday, March 5, 16:00–17:30, Room C**

**PS 827 Breast cancer: to screen or not to screen?** LEVEL II

**Moderator:** F. Sardanelli; San Donato Milanese/IT
**Teaser:** N. Houssami; Sydney/AU

**A. Mammographic screening: pros**
A. Frigerio; Turin/IT

**B. Mammographic screening: cons**
A.B. Miller; Toronto, ON/CA

» **Questions and answers**
F. Sardanelli; San Donato Milanese/IT
N. Houssami; Sydney/AU

= Interactive session with electronic voting/self assessment

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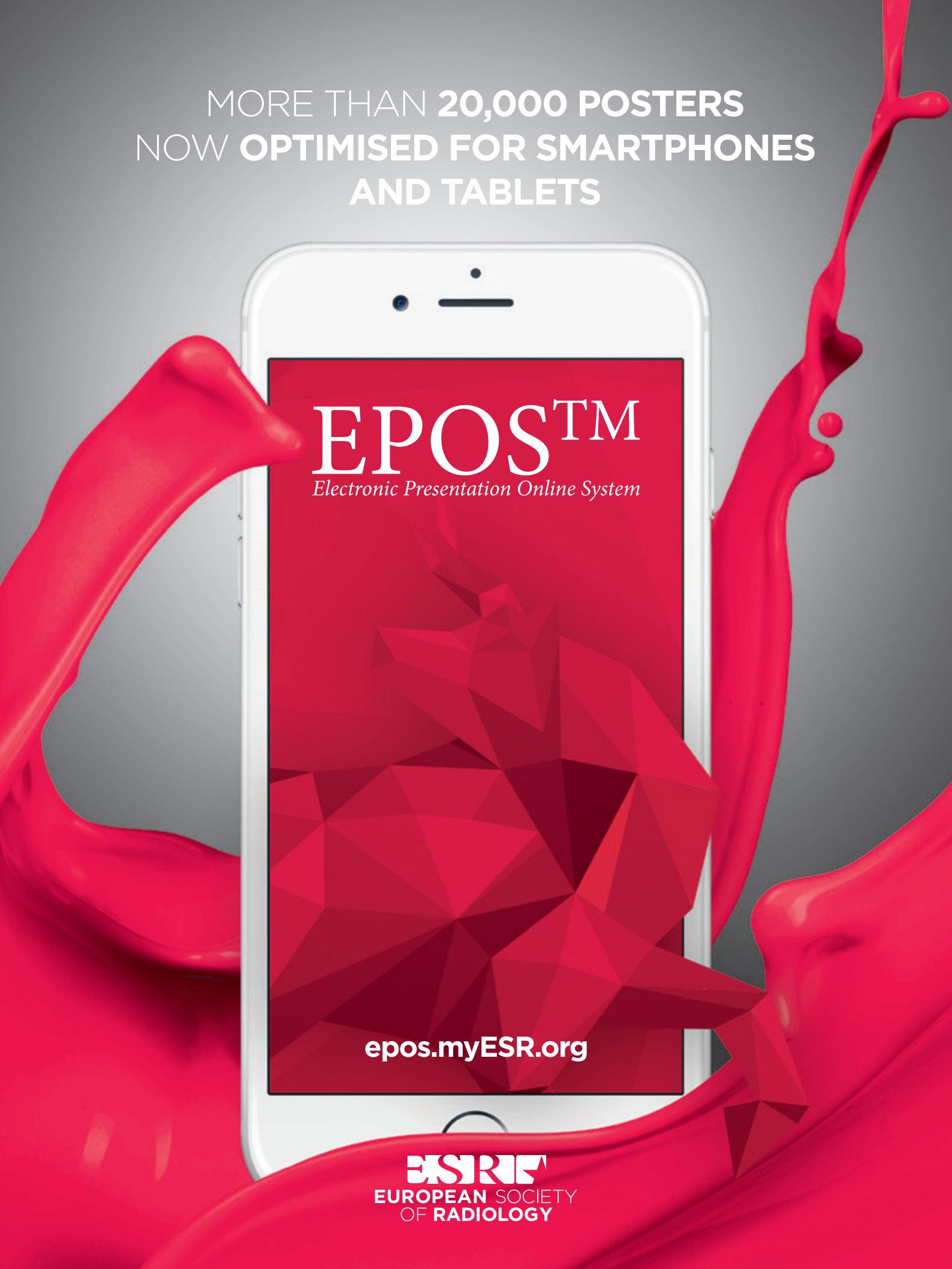


ESR
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# Multimedia Classroom

**Coordinators:**
E. Neri; Pisa/IT
D. Regge; Turin/IT

Due to its remarkable success at ECR 2014, the Multimedia Classroom will take place again at ECR 2015.

In this classroom, participants get a chance to solve cases on workstations supplied by several different companies.

2D and 3D image review and processing at the workstation are essential steps in the radiological workflow, which lead to the final diagnosis and report. Every radiologists needs to be trained in these tasks.

Places are allocated on a first-come, first-served basis.

# **Multimedia** Classroom

5 March **Thursday, March 5, 10:30–12:00, Room Q**

## MM 6 Cardiac CT

**Chairman:** F. Cademartiri; Monastier di Treviso/IT

**Speaker of the Case review:**
G. Bastarrika; Pamplona/ES

**Tutors:**
F. Bamberg; Munich/DE
K. Gruszczynska; Katowice/PL
A. Jacquier; Marseille/FR
C. Peebles; Southampton/UK
M. Rengo; Latina/IT

5 March **Thursday, March 5, 14:00–15:30, Room Q**

## MM 7 CT angiography

**Chairman:** C. Catalano; Rome/IT

**Speaker of the Case review:**
I. Carbone; Rome/IT

**Tutors:**
L. Saba; Cagliari/IT
G. Groezinger; Tubingen/DE
M. Anzidei; Rome/IT
J. Habets; Utrecht/NL
D. Beitzke; Vienna/AT

5 March **Thursday, March 5, 16:00–17:30, Room Q**

## MM 8 Oncologic imaging

**Chairman:** V.J. Goh; London/UK

**Speaker of the Case review:**
I. Bargellini; Pisa/IT

**Tutors:**
F. Nensa; Essen/DE
M. Schammann; Heilbronn/DE
D. Prezzi; Brighton/UK
F. Astegiano; Sommariva Perno/IT
C.N. De Cecco; Rome/IT
E. Rachetta; Candiolo/IT

6 March **Friday, March 6, 10:30–12:00, Room Q**

## MM 10 MDCT in emergencies

**Chairman:** M. Scaglione; Castel Volturno/IT

**Speaker of the Case review:**
U. Linsenmaier; Munich/DE

**Tutors:**
G. Goh; Melbourne/AU
F.H. Berger; Amsterdam/NL
J.M. Artigas; Zaragoza/ES
S. Vaidya; London/UK
V. Miele; Rome/IT

6 March **Friday, March 6, 14:00–15:30, Room Q**

## MM 11 CT angiography

**Chairman:** C. Catalano; Rome/IT

**Speaker of the Case review:**
I. Carbone; Rome/IT

**Tutors:**
L. Saba; Cagliari/IT
G. Groezinger; Tubingen/DE
M. Anzidei; Rome/IT
J. Habets; Utrecht/NL
D. Beitzke; Vienna/AT

6 March **Friday, March 6, 16:00–17:30, Room Q**

## MM 12 Cardiac CT

**Chairman:** F. Cademartiri; Monastier di Treviso/IT

**Speaker of the Case review:**
G. Bastarrika; Pamplona/ES

**Tutors:**
F. Bamberg; Munich/DE
K. Gruszczynska; Katowice/PL
A. Jacquier; Marseille/FR
C. Peebles; Southampton/UK
M. Rengo; Latina/IT

7 March **Saturday, March 7, 10:30-12:00, Room Q**

## MM 14 Oncologic imaging

**Chairman:** V.J. Goh; London/UK

**Speaker of the Case review:**
I. Bargellini; Pisa/IT

**Tutors:**
F. Nensa; Essen/DE
M. Schammann; Heilbronn/DE
D. Prezzi; Brighton/UK
F. Astegiano; Sommariva Perno/IT
C.N. De Cecco; Rome/IT
E. Rachetta; Candiolo/IT

7 March **Saturday, March 7, 14:00–15:30, Room Q**

## MM 15 MDCT in emergencies

**Chairman:** M. Scaglione; Castel Volturno/IT

**Speaker of the Case review:**
U. Linsenmaier; Munich/DE

**Tutors:**
G. Goh; Melbourne/AU
F.H. Berger; Amsterdam/NL
J.M. Artigas; Zaragoza/ES
S. Vaidya; London/UK
V. Miele; Rome/IT

# Refresher Courses Scientific Sessions

Refresher Courses, as the name suggests, aim to refresh knowledge, reviewing and updating the more basic subjects for those who have not kept up to speed with certain developments, or who just need a reminder – something of interest not only to young radiologists but also experienced doctors.

The length of each course is 90 minutes (classic Refresher Course: three parts of 30 minutes each, including the introduction and time for discussion; integrated Refresher Course: three parts of 23 minutes each, leaving enough time for the introduction by the chairpersons and the panel discussion).

The course will be given by two or three lecturers and led by one or two moderator(s) on a defined subject of clinical imaging, imaging technique, interventional radiology and related subjects.

Accepted papers for oral presentation are presented in the Scientific Sessions. Places are allocated on a first-come, first-served basis.

# **Refresher** Courses / **Scientific** Sessions

## Abdominal and Gastrointestinal

4 March **Wednesday, March 4, 08:30–10:00, Room B**

### RC 101 Pitfalls in interpretation in pancreatic imaging

LEVEL III

» **Chairman's introduction**
R. Pozzi-Mucelli; Verona/IT

**A. Pancreatic cancer or pancreatitis**
R. Manfredi; Verona/IT

**B. Cystic tumours vs pseudocysts**
M.A. Bali; Brussels/BE

**C. Incidental findings**
C. Stoupis; Männedorf/CH

» **Panel discussion: How do we manage difficult cases and incidental findings?**

4 March **Wednesday, March 4, 10:30–12:00, Room B**

### SS 201a Liver MRI

**Moderators:** P. Leander; Malmö/SE
M.A. Patak; Zurich/CH

4 March **Wednesday, March 4, 10:30–12:00, Room M**

### SS 201b Improving abdominopelvic imaging: technical aspects

**Moderators:** R. Malago; Verona/IT
G. Maskell; Truro/UK

4 March **Wednesday, March 4, 14:00–15:30, Room B**

### SS 301a Diffuse liver and pancreatic diseases

**Moderators:** M.A. Bali; Brussels/BE
L. Crocetti; Pisa/IT

4 March **Wednesday, March 4, 14:00–15:30, Room M**

### SS 301b Gastro-oesophageal and small bowel imaging

**Moderators:** S. Bickelhaupt; Heidelberg/DE
A.M. Riddell; Sutton/UK

4 March **Wednesday, March 4, 16:00–17:30, Room B**

### RC 401 Misses and difficulties in abdominal imaging

LEVEL II

» **Chairman's introduction**
J. Stoker; Amsterdam/NL

**A. Mesentery and peritoneum**
D. Akata; Ankara/TR

**B. Occult GI bleeding**
A. Filippone; Chieti/IT

**C. Bowel dilatation**
E. Danse; Brussels/BE

» **Panel discussion: What have I learned from misses? Can improvements be made to reduce misses?**

5 March **Thursday, March 5, 08:30–10:00, Room B**

### RC 501 The many faces of benign liver lesions

LEVEL II

**Moderator:** L. Grenacher; Heidelberg/DE

**A. Vascular**
M. Karcaaltincaba; Ankara/TR

**B. Cystic-Biliary**
G. Brancatelli; Palermo/IT

**C. Hepatocellular**
R.L. Baron; Chicago, IL/US

5 March **Thursday, March 5, 10:30–12:00, Room B**

### SS 601a Focal liver lesions

**Moderators:** M. Krokidis; Cambridge/UK
B. Marincek; Cleveland, OH/US

5 March **Thursday, March 5, 10:30–12:00, Room M**

### SS 601b Inflammatory bowel disease

**Moderators:** C. Hohl; Siegburg/DE
F. Paparo; Genoa/IT

5 March **Thursday, March 5, 14:00–15:30, Room B**

### SS 701a Liver steatosis and fibrosis

**Moderators:** M. Bruegel; Munich/DE
L. Martí-Bonmatí; Valencia/ES

5 March **Thursday, March 5, 14:00–15:30, Room MB 2**

### SS 701b Colonic imaging

**Moderators:** P. Lefere; Roeselare/BE
T. Mang; Vienna/AT

# Refresher Courses / Scientific Sessions

## Abdominal and Gastrointestinal

6 March — Friday, March 6, 08:30–10:00, Room B

### RC 901 Technical advances in liver and pancreatic imaging — LEVEL II

**Moderator:** C. Bartolozzi; Pisa/IT

**A. CEUS and elastography**
G.H. Mostbeck; Vienna/AT

**B. MRI: diffusion, perfusion and elastography**
B.E. Van Beers; Clichy/FR

**C. Liver-specific contrast agents**
B.J. Op de Beeck; Antwerp/BE

6 March — Friday, March 6, 10:30–12:00, Room F2

### SS 1001 Rectal cancer and anorectal imaging

**Moderators:** L. Curvo-Semedo; Coimbra/PT
F. Maccioni; Rome/IT

7 March — Saturday, March 7, 08:30–10:00, Room B

### RC 1301 Pancreatic inflammation — ALL LEVELS

**Moderator:** G. Morana; Treviso/IT

**A. Acute pancreatitis**
M. Zins; Paris/FR

**B. Chronic pancreatitis and IPMN**
C. Matos; Brussels/BE

**C. Paraduodenal and autoimmune pancreatitis**
S.A. Jackson; Plymouth/UK

7 March — Saturday, March 7, 10:30–12:00, Room F2

### SS 1401 Abdominal and vascular imaging

**Moderators:** M.M. Maher; Cork/IE
M. Ronot; Clichy/FR

7 March — Saturday, March 7, 16:00–17:30, Room B

### RC 1601 From my workstation: difficult cases on review — LEVEL II

» **Chairman's introduction**
A. Maier; Vienna/AT

**A. Pancreas**
C. Triantopoulou; Athens/GR

**B. Small bowel**
E. Biscaldi; Genoa/IT

**C. Rectum**
D.M. Lambregts; Maastricht/NL

» **Panel discussion: What can we learn from challenging cases?**

8 March — Sunday, March 8, 08:30–10:00, Room B

### RC 1701 Colorectal cancer liver metastases: assessing tumour response — LEVEL III

» **Chairman's introduction**
C.D. Becker; Geneva/CH

**A. Current treatment options**
T.K. Helmberger; Munich/DE

**B. Morphological biomarkers**
S. Skehan; Dublin/IE

**C. Functional biomarkers**
D.-M. Koh; Sutton/UK

» **Panel discussion:**
**The "vanishing" lesions: what to do?**

8 March — Sunday, March 8, 10:30–12:00, Room M

### SS 1801 HCC diagnosis and treatment

**Moderators:** C. Ayuso Colella; Barcelona/ES
A. Furlan; Pittsburgh, PA/US

8 March — Sunday, March 8, 14:00–15:30, Room B

### SS 1901a Pancreas: tumours, pancreatitis

**Moderators:** V. Maniatis; Athens/GR
P. Rodríguez; Madrid/ES

8 March — Sunday, March 8, 14:00–15:30, Room M

### SS 1901b Liver CT and ultrasound: new techniques

**Moderators:** M. Laniado; Dresden/DE
V. Vandecaveye; Leuven/BE

# **Refresher** Courses / **Scientific** Sessions

## Breast

4 March **Wednesday, March 4, 08:30–10:00, Room F2**

### RC 102 Breast ultrasound 2015 LEVEL III

**Moderator:** K. Kinkel; Chêne-Bougeries/CH

**A. Evidence for screening in dense breasts**
V. Girardi; Brescia/IT

**B. Elastosonography: true advances or false hope?**
C.S. Balleyguier; Villejuif/FR

**C. Nodal staging of breast cancer: still needed?**
S.C.E. Diepstraten; Utrecht/NL

4 March **Wednesday, March 4, 10:30–12:00, Room C**

### SS 202a Imaging for neoadjuvant chemotherapy

**Moderators:** P. Martinez-Miravete; Zaragoza/ES
F. Thibault; Paris/FR

4 March **Wednesday, March 4, 10:30–12:00, Room D1**

### SS 202b Axillary imaging and nodal staging

**Moderators:** A. Athanasiou; Paris/FR
M. Dietzel; Jena/DE

4 March **Wednesday, March 4, 14:00–15:30, Room A**

### SS 302a Breast density and imaging biomarkers

**Moderators:** L.A. Carbonaro; San Donato Milanese/IT
C. Colin; Lyon/FR

4 March **Wednesday, March 4, 14:00–15:30, Room C**

### SS 302b Risk imaging and stratification

**Moderators:** E. Azavedo; Stockholm/SE
P.A.T. Baltzer; Vienna/AT

4 March **Wednesday, March 4, 16:00–17:30, Room F2**

### RC 402 Radio-pathological correlation: more important than you thought LEVEL II

» **Chairman's introduction**
F.J. Gilbert; Cambridge/UK

**A. Pre-treatment planning**
C.K. Kuhl; Aachen/DE

**B. Intra-operative specimen evaluation**
J. Camps Herrero; Valencia/ES

**C. Radiologist meets pathologist**
B. Ingold-Heppner; Berlin/DE

» **Panel discussion: How to enhance the interaction between radiologists and pathologists?**

5 March **Thursday, March 5, 10:30–12:00, Room C**

### SS 602 Imaging techniques and interventions

**Moderators:** F. Engelken; Berlin/DE
F. Pediconi; Rome/IT

5 March **Thursday, March 5, 14:00–15:30, Room C**

### SS 702 Breast: diffusion-weighted MR imaging (DWI)

**Moderators:** G. Forrai; Budapest/HU
C. Iacconi; Carrara/IT

6 March **Friday, March 6, 10:30–12:00, Room C**

### SS 1002 Breast MRI indications and MR-guided biopsy

**Moderators:** G. Esen; Istanbul/TR
S. Schrading; Aachen/DE

# **Refresher** Courses / **Scientific** Sessions

## Breast

7 March — Saturday, March 7, 08:30–10:00, Room F2

### RC 1302 Tailoring breast cancer screening to risk level

LEVEL III

**Moderator:** B. Brkljačić; Zagreb/HR

**A. Calculating, using and improving individual risk estimates**
S.W. Duffy; London/UK

**B. Intermediate risk: the grey zone**
S.H. Heywang-Köbrunner; Munich/DE

**C. High risk: MRI alone?**
F. Sardanelli; San Donato Milanese/IT

7 March — Saturday, March 7, 10:30–12:00, Room C

### SS 1402 Digital breast tomosynthesis: the new mammography

**Moderators:** A.M.J. Bluekens; Tilburg/NL
R. Schulz-Wendtland; Erlangen/DE

7 March — Saturday, March 7, 14:00–15:30, Room F2

### RC 1502 Update on BI-RADS

LEVEL II

**Moderator:** L.J. Pina Insausti; Pamplona/ES

**A. Mammography**
U. Bick; Berlin/DE

**B. Ultrasound**
A. Evans; Dundee/UK

**C. MRI**
P.A.T. Baltzer; Vienna/AT

8 March — Sunday, March 8, 08:30–10:00, Room F2

### RC 1702 Emerging breast imaging technologies

LEVEL III

**Moderator:** P. Skaane; Oslo/NO

**A. Digital breast tomosynthesis (DBT)**
D. Bernardi; Trento/IT

**B. Multiparametric high-field MRI and more**
N.N.

**C. High-resolution radionuclide breast imaging (PEM and molecular imaging)**
M. Herranz; Santiago/ES

8 March — Sunday, March 8, 10:30–12:00, Room C

### SS 1802 Population-based screening

**Moderators:** E.J. Cornford; Nottingham/UK
K. Pinker-Domenig; Vienna/AT

8 March — Sunday, March 8, 14:00–15:30, Room A

### SS 1902a Multiparametric MRI and PET

**Moderators:** E.M. Fallenberg; Berlin/DE
V. Girardi; Verona/IT

8 March — Sunday, March 8, 14:00–15:30, Room C

### SS 1902b Preoperative imaging

**Moderators:** P. Panizza; Milan/IT
S. Perez Rodrigo; Madrid/ES

# **Refresher** Courses / **Scientific** Sessions

## Cardiac

4 March **Wednesday, March 4, 08:30–10:00, Room MB 2**

### RC 103 Hybrid cardiovascular imaging: where should we go? LEVEL III

**Moderator:** G. Feuchtner; Innsbruck/AT

**A. PET/CT: present state and future prospects**
S.G. Nekolla; Munich/DE

**B. SPECT/CT: is it just PET/CT's little brother?**
M. Hacker; Vienna/AT

**C. MR/PET: do we really need it?**
H.H. Quick; Essen/DE

4 March **Wednesday, March 4, 10:30–12:00, Room N**

### SS 203a Tissue characterisation

**Moderators:** N. Kawel-Böhm; Basle/CH
B. Velthuis; Utrecht/NL

4 March **Wednesday, March 4, 10:30–12:00, Room MB 3**

### SS 203b Heart rate: disorders and imaging issues

**Moderators:** M. Grothoff; Leipzig/DE
R.J. Perea; Barcelona/ES

4 March **Wednesday, March 4, 14:00–15:30, Room N**

### SS 303a Coronary atherosclerosis

**Moderators:** N.R. Mollet; Turnhout/BE
M. Urbanczyk-Zawadzka; Krakow/PL

4 March **Wednesday, March 4, 14:00–15:30, Room MB 3**

### SS 303b Cardiac function and flow

**Moderators:** P. Croisille; Saint-Etienne/FR
P. Donato; Coimbra/PT

4 March **Wednesday, March 4, 16:00–17:30, Room MB 2**

### RC 403 Quantification of myocardial perfusion: which test is the best (PET, MRI, MDCT)? LEVEL III

**Moderator:** M. Williams; Edinburgh/UK

**A. PET for evaluation of perfusion, absolute myocardial blood flow and coronary flow reserve**
S. Kajander; Turku/FI

**B. Stress perfusion CT imaging for the detection and quantification of relevant coronary stenosis**
F. Bamberg; Munich/DE

**C. Analysis of myocardial perfusion using MRI**
R. Manka; Zurich/CH

5 March **Thursday, March 5, 08:30–10:00, Room MB 2**

### RC 503 Imaging of cardiac valves: new trends LEVEL II+III

**Moderator:** F. Pugliese; London/UK

**A. Echocardiography remains the reference technique**
T. Binder; Vienna/AT

**B. MRI is the best comprehensive approach**
M. Francone; Rome/IT

**C. Does CT have a role in diagnosing valvular disease?**
G. Feuchtner; Innsbruck/AT

5 March **Thursday, March 5, 10:30–12:00, Room N**

### SS 603a Myocardial infarction and coronary intervention

**Moderators:** M. Francone; Rome/IT
M. Gutberlet; Leipzig/DE

5 March **Thursday, March 5, 10:30–12:00, Room MB 3**

### SS 603b Valvular disease

**Moderators:** G. Feuchtner; Innsbruck/AT
M. Gardarsdottir; Reykjavik/IS

5 March **Thursday, March 5, 14:00–15:30, Room MB 3**

### SS 703 Work-up of coronary artery disease

**Moderators:** M. Das; Maastricht/NL
S. Mirsadraee; Edinburgh/UK

5 March **Thursday, March 5, 16:00–17:30, Room MB 2**

### RC 803 Imaging of heart failure LEVEL II+III

» **Chairman's introduction**
M. Gutberlet; Leipzig/DE

**A. Current ESC and AHA guidelines: how to choose imaging techniques in heart failure patients?**
J.T. Ortiz-Pérez; Barcelona/ES

**B. Differentiating the causes for heart failure: is MRI the undisputable gold standard?**
T. Leiner; Utrecht/NL

**C. SPECT as an alternative imaging technique**
F. Bengel; Hannover/DE

» **Panel discussion: What is the preferred comprehensive imaging test in heart failure?**

# **Refresher** Courses / **Scientific** Sessions

## Cardiac

6 March **Friday, March 6, 10:30–12:00, Room N**

### SS 1003a Myocardial perfusion imaging

**Moderators:** R.W. Bauer; Frankfurt/DE
G.I. Kirova-Nedialkova; Sofia/BG

6 March **Friday, March 6, 10:30–12:00, Room MB 3**

### SS 1003b Non-ischaemic myocardial disease

**Moderators:** I. Carbone; Rome/IT
S.D. Rud; St. Petersburg/RU

8 March **Sunday, March 8, 10:30–12:00, Studio 2015**

### SS 1803 Biomarkers in cardiac imaging

**Moderators:** A. Kallifatidis; Thessaloniki/GR
T. Leiner; Utrecht/NL

# **Refresher** Courses / **Scientific** Sessions

## Chest

4 March **Wednesday, March 4, 08:30–10:00, Room D1**

### RC 104 Pulmonary vasculitis and collagen vascular diseases LEVEL II+III

**Moderator:** A. Persson; Linköping/SE

**A. Pulmonary manifestations of collagen vascular diseases**
S.R. Desai; London/UK

**B. Large-vessel vasculitis**
J. Vilar; Valencia/ES

**C. HRCT patterns in pulmonary vasculitis**
C.M. Schaefer-Prokop; Amersfoort/NL

**D. Inflammation and remodeling**
A.A. Bankier; Boston, MA/US

4 March **Wednesday, March 4, 14:00–15:30, Room D1**

### SS 304 Interventional procedures and follow-up

**Moderators:** I. Vollmer; Barcelona/ES
J.E. Wildberger; Maastricht/NL

4 March **Wednesday, March 4, 16:00–17:30, Room D1**

### RC 404 HRCT - patterns in chest radiology: back to basics and beyond LEVEL I+II

» **Chairman's introduction**
H. Prosch; Vienna/AT

**A. Secondary pulmonary lobule anatomy: essential to tackle with the nodular pattern**
T. Frauenfelder; Zurich/CH

**B. Linear and reticular pattern**
F. Molinari; Lille/FR

**C. GGO opacities and consolidation**
I.E. Tyurin; Moscow/RU

» **Panel discussion: Is it always easy to detect a pattern? Tips for success**

5 March **Thursday, March 5, 08:30–10:00, Room D1**

### RC 504 COPD, airways disease and beyond LEVEL II+III

» **Chairman's introduction**
P.A. Grenier; Paris/FR

**A. COPD in HRCT: what should we report?**
N. Sverzellati; Parma/IT

**B. Airways disease: the role of expiratory CT**
A. Devaraj; London/UK

**C. Is there a role for MRI?**
M.O. Wielpütz; Heidelberg/DE

» **Panel discussion: When should we do expiratory CT, and when should we consider making a MRI?**

5 March **Thursday, March 5, 10:30–12:00, Room D1**

### SS 604 Pulmonary nodule

**Moderators:** C. Mueller-Mang; Vienna/AT
M. Sánchez; Barcelona/ES

5 March **Thursday, March 5, 14:00–15:30, Room D1**

### SS 704 Lung cancer: screening and staging

**Moderators:** F. Gleeson; Oxford/UK
T. Henzler; Mannheim/DE

6 March **Friday, March 6, 10:30–12:00, Room D1**

### SS 1004 Pulmonary hypertension and thromboembolic disease

**Moderators:** E.E.J.G. Coche; Brussels/BE
B. Graca; Coimbra/PT

6 March **Friday, March 6, 16:00–17:30, Room D1**

### RC 1204 Mediastinal disease revisited LEVEL I+II

**Moderator:** J. Dinkel; Heidelberg/DE

**A. The crucial role of chest x-ray: mediastinal lines and stripes**
J. Cáceres; Barcelona/ES

**B. Mediastinal masses: role of CT**
V.E. Sinitsyn; Moscow/RU

**C. A new look at the mediastinum: role of MRI and PET-CT**
E.J.R. van Beek; Edinburgh/UK

# **Refresher** Courses / **Scientific** Sessions

## Chest

7 March **Saturday, March 7, 08:30–10:00, Room D1**

### RC 1304 Occupational lung diseases: the known and the less known LEVEL I+II

**Moderator:** N. Karabulut; Denizli/TR

**A. Silicosis and coal worker's pneumoconiosis**
K. Marten-Engelke; Göttingen/DE

**B. Asbestos-related disease**
S.J. Copley; London/UK

**C. Uncommon occupational lung diseases**
L. Flors; Valencia/ES

7 March **Saturday, March 7, 10:30–12:00, Room D1**

### SS 1404 CT dose reduction and MR indications

**Moderators:** J. Broncano; Cordoba/ES
K. Malagari; Papagou, Athens/GR

7 March **Saturday, March 7, 14:00–15:30, Room D1**

### RC 1504 Pulmonary arterial hypertension LEVEL II+III

**Moderator:** R. Cesar; Golnik/SI

**A. An overview of pulmonary artery hypertension**
N.J. Screaton; Cambridge/UK

**B. CT in pulmonary artery hypertension**
M.-P. Revel; Paris/FR

**C. MRI in pulmonary artery hypertension**
J. Biederer; Groß-Gerau/DE

8 March **Sunday, March 8, 10:30–12:00, Room D1**

### SS 1804 Obstructive pulmonary diseases and reduced lung function

**Moderators:** A.P. Parkar; Bergen/NO
N.N.

8 March **Sunday, March 8, 14:00–15:30, Room D1**

### SS 1904 Infection, transplantation and quality issues

**Moderators:** E. Eisenhuber-Stadler; Vienna/AT
C. McCann; Liverpool/UK

# **Refresher** Courses / **Scientific** Sessions

## Computer Applications

4 March **Wednesday, March 4, 08:30–10:00, Room N**

### RC 105 Mobile IT in radiology LEVEL I

» **Chairman's introduction**
E. Neri; Pisa/IT

**A. Tablet-computers: a technical overview**
J. Fernandez-Bayó; Sabadell/ES

**B. Reading DICOM images on the tablet**
O. Ratib; Geneva/CH

**C. Mobile teleradiology: radiological features of the tablet-computer**
E.R. Ranschaert; 's-Hertogenbosch/NL

» **Panel discussion: Confidence in the use of tablets in our clinical practice**

4 March **Wednesday, March 4, 14:00–15:30, Room Z**

### SS 305 Imaging biomarkers

**Moderators:** A. Alberich-Bayarri; Valencia/ES
M. de Bruijne; Rotterdam/NL

5 March **Thursday, March 5, 10:30–12:00, Room Z**

### SS 605 Dose tracking: assessment and reduction of artefacts

**Moderators:** N. Kachenoura; Paris/FR
J.H. Thrall; Boston, MA/US

6 March **Friday, March 6, 16:00–17:30, Room MB 3**

### RC 1205 Update on computer-aided diagnosis (CAD) LEVEL I

» **Chairman's introduction**
M. Langer; Freiburg/DE

**A. CT colonography and CAD**
S.A. Taylor; London/UK

**B. CAD for lung nodules**
A.R. Larici; Rome/IT

**C. CAD for breast cancer detection**
U. Bick; Berlin/DE

» **Panel discussion: Is CAD ready for prime time?**

8 March **Sunday, March 8, 10:30–12:00, Room Z**

### SS 1805 Data sharing and content-based data retrieval

**Moderators:** P. Sögner; Feldkirch/AT
C.G. Trumm; Munich/DE

8 March **Sunday, March 8, 14:00–15:30, Room Z**

### SS 1905 Methods for image interpretation and reporting

**Moderators:** C.E. Kahn; Philadelphia, PA/US
P. Puech; Lille/FR

# **Refresher** Courses / **Scientific** Sessions

## Molecular Imaging

4 March **Wednesday, March 4, 08:30–10:00, Room MB 1**

### RC 106 Functional and multimodality neuroimaging

LEVEL III

**Moderator:** T.H. Helbich; Vienna/AT

**A. Clinical applications of PET/CT in neurology**
A.H. Jacobs; Münster/DE

**B. MR/PET chances and challenges**
V. Schulz; Aachen/DE

**C. Advanced MR neuroimaging techniques**
M. Smits; Rotterdam/NL

4 March **Wednesday, March 4, 10:30–12:00, Room Z**

### SS 206 Clinical molecular imaging

**Moderators:** M. Eisenblätter; Münster/DE
F.A. Gallagher; Cambridge/UK

7 March **Saturday, March 7, 10:30–12:00, Room Z**

### SS 1406 Experimental molecular imaging and exploratory clinical studies

**Moderators:** M. de Jong; Rotterdam/NL
M. Wildgruber; Munich/DE

# **Refresher** Courses / **Scientific** Sessions

## Genitourinary

4 March **Wednesday, March 4, 08:30–10:00, Room G**

### RC 107 Stone disease: new concepts

LEVEL II

» **Chairman's introduction**
A. Magnusson; Uppsala/SE

**A. From the Stone Age to the New Age**
N.C. Cowan; Portsmouth/UK

**B. The contribution of imaging in planning urinary stone therapy**
U. Patel; London/UK

**C. Urolithiasis: changing concepts in medical and surgical approach**
G. Kramer; Vienna/AT

» **Panel discussion: What are the role density and/or volume of the stone in failure of efficient treatment of stone disease?**

4 March **Wednesday, March 4, 10:30–12:00, Room G**

### SS 207 Gynaecological malignancies

**Moderators:** M. Horta; Lisbon/PT
N.N.

4 March **Wednesday, March 4, 14:00–15:30, Room G**

### SS 307 Prostate MR imaging

**Moderators:** D. Junker; Innsbruck/AT
J. Rørvik; Bergen/NO

4 March **Wednesday, March 4, 16:00–17:30, Room G**

### RC 407 Prostate imaging: how I do it

LEVEL II

» **Chairman's introduction**
H.-P. Schlemmer; Heidelberg/DE

**A. Detection and assessment of aggressiveness**
P. Puech; Lille/FR

**B. Image-guided biopsy and staging**
F. Cornud; Paris/FR

**C. Role of imaging in active surveillance and detection of recurrence**
V. Logager; Copenhagen/DK

» **Panel discussion: How can multiparametric MRI be implemented as clinical standard across multiple centres?**

5 March **Thursday, March 5, 10:30–12:00, Room G**

### SS 607a DWI in prostate cancer

**Moderators:** T. Durmus; Berlin/DE
G.M. Villeirs; Gent/BE

5 March **Thursday, March 5, 10:30–12:00, Room MB 2**

### SS 607b Benign gynaecological pathology

**Moderators:** J. Arnáiz; Doha/QA
R.N. Lucas; Lisbon/PT

5 March **Thursday, March 5, 14:00–15:30, Room G**

### SS 707 New frontiers and contrast agents in GU imaging

**Moderators:** S.M. Dudea; Cluj-Napoca/RO
M.R. Onur; Elazig/TR

5 March **Thursday, March 5, 16:00–17:30, Room G**

### RC 807 Lessons I learned from mistakes in kidney and adrenal imaging

LEVEL II

» **Chairman's introduction**
G. Heinz-Peer; St. Pölten/AT

**A. Renal cancer**
T. Bäuerle; Erlangen/DE

**B. PET-CT in nephrourology**
M. Notohamiprodjo; Tübingen/DE

**C. Ablation mistakes in tumour percutaneous RFA**
W.W. Mayo-Smith; Boston, MA/US

» **Panel discussion: How to avoid mistakes using imaging modalities in other kidney and adrenal diseases?**

# **Refresher** Courses / **Scientific** Sessions

## Genitourinary

7 March **Saturday, March 7, 08:30–10:00, Room G**

### RC 1307 Female pelvic imaging: how I do it?

LEVEL III

**Moderator:** K. Kinkel; Chêne-Bougeries/CH

**A. Imaging female congenital anomalies**
I. Thomassin-Naggara; Paris/FR

**B. PET-CT in the female pelvis: how I do it?**
A.G. Rockall; London/UK

**C. How to image cystic tumours of the ovary**
R. Forstner; Salzburg/AT

7 March **Saturday, March 7, 10:30–12:00, Room G**

### SS 1407 Adrenal and kidney imaging

**Moderators:** C.D. Alt; Hamburg/DE
O. Nikolic; Novi Sad/RS

8 March **Sunday, March 8, 10:30–12:00, Room G**

### SS 1807 GU special topics

**Moderators:** L. Bunesch Villalba; Barcelona/ES
A. Tsili; Ioannina/GR

8 March **Sunday, March 8, 14:00–15:30, Room G**

### SS 1907 Urinary stones, ureters and bladder pathology

**Moderators:** M.L. Lobo; Lisbon/PT
L. Ponhold; Vienna/AT

# **Refresher** Courses / **Scientific** Sessions

## Head and Neck

4 March **Wednesday, March 4, 08:30–10:00, Room D2**

### RC 108 Head and neck emergency: for the general radiologist or the patient? LEVEL II+III

**Moderator:** M. Díez Blanco; Santander/ES

**A. Findings that can't wait for follow-up**
M.G. Mack; Munich/DE

**B. Imaging infection: when, how and why?**
M. Becker; Geneva/CH

**C. Where medical history and previous images help to rule out tumour**
D. Farina; Brescia/IT

4 March **Wednesday, March 4, 10:30–12:00, Room MB 1**

### SS 208 Advanced imaging in salivary glands and lymph nodes, including elastography

**Moderators:** A.A.A. Abdel Razek; Mansoura/EG
L. Grzycka-Kowalczyk; Lublin/PL

4 March **Wednesday, March 4, 14:00–15:30, Room MB 1**

### SS 308 Temporal bone and temporomandibular joint imaging and new MRI techniques

**Moderators:** S. Petrovic; Nis/RS
J. Frühwald-Pallamar; Vienna/AT

4 March **Wednesday, March 4, 16:00–17:30, Room D2**

### RC 408 The orbit: you can't see what you haven't learnt LEVEL II+III

**Moderator:** Ü.Y. Ayaz; Mersin/TR

**A. Anatomy and commonly encountered postoperative findings**
N. Hosten; Greifswald/DE

**B. Congenital and inflammatory disease**
T.A. Ferreira; Leiden/NL

**C. Benign and malignant neoplastic tumours**
W. Müller-Forell; Mainz/DE

5 March **Thursday, March 5, 08:30–10:00, Room D2**

### RC 508 Pitfalls in interpretation of head and neck disease LEVEL II+III

**Moderator:** M.M. Lemmerling; Ghent/BE

**A. Anatomical variants without clinical consequence**
F.A. Pameijer; Utrecht/NL

**B. Anatomical variants posing surgical risks**
T. Beale; London/UK

**C. Distinct head and neck disease or systemic disease?**
B.F. Schuknecht; Zurich/CH

5 March **Thursday, March 5, 10:30–12:00, Room MB 1**

### SS 608 Oncologic imaging: CT, MRI and PET

**Moderators:** S. Bisdas; Tübingen/DE
C. Czerny; Vienna/AT

5 March **Thursday, March 5, 14:00–15:30, Room MB 1**

### SS 708 CT including cone beam CT: image quality, dosimetry and clinical applications

**Moderators:** B. Gómez-Ansón; Barcelona/ES
L. Ioseliani; Tbilisi/GE

5 March **Thursday, March 5, 16:00–17:30, Room D2**

### RC 808 Head and neck imaging: don't sell your ultrasound yet! LEVEL I+II

**Moderator:** S.S. Özbek; Izmir/TR

**A. Salivary gland imaging with ultrasound**
N. Gritzmann; Vienna/AT

**B. Masses of the soft parts of the neck**
S. Robinson; Vienna/AT

**C. Lymph nodes: differential diagnosis and fine-needle aspiration**
R. Maroldi; Brescia/IT

6 March **Friday, March 6, 10:30–12:00, Room MB 1**

### SS 1008 Thyroid and parathyroid imaging

**Moderators:** E. Horvath; Santiago/CL
A.S. McQueen; Newcastle upon Tyne/UK

# Refresher Courses / Scientific Sessions
## Interventional Radiology

4 March **Wednesday, March 4, 08:30–10:00, Room MB 3**

### RC 109 Image fusion for image-guided interventions LEVEL III

» **Chairman's introduction**
V. Bérczi; Budapest/HU

**A. Cone-beam CT in vascular and non-vascular interventional procedures**
T.F. Jakobs; Munich/DE

**B. US image fusion**
C. Ewertsen; Copenhagen/DK

**C. How can we improve targeting in image guided interventions: stereotaxis, robotics and advanced techniques**
R. Bale; Innsbruck/AT

» **Panel discussion: Practical and economic issues in using high-end guidance for interventional radiology**

4 March **Wednesday, March 4, 10:30–12:00, Room D2**

### SS 209 Peripheral arterial and venous interventions

**Moderators:** E. Dósa; Budapest/HU
K. Schürmann; Dortmund/DE

4 March **Wednesday, March 4, 14:00–15:30, Room D2**

### SS 309 Musculoskeletal interventions

**Moderators:** X. Buy; Strasbourg/FR
T. Lehnert; Frankfurt a. Main/DE

4 March **Wednesday, March 4, 16:00–17:30, Room MB 3**

### RC 409 Basic principles of percutaneous tumour ablation LEVEL I

» **Chairman's introduction**
T. de Baère; Villejuif/FR

**A. Thermal ablation with RF**
V. Válek; Brno/CZ

**B. Microwave ablation: what is the difference?**
P.L. Pereira; Heilbronn/DE

**C. Cryoablation: ice can be better than heat**
D.J. Breen; Southampton/UK

**D. Irreversible electroporation: principles, technique and clinical applications**
A. Nilsson; Uppsala/SE

» **Panel discussion: Selection of ablation modalities: operator's preference or evidence based?**

5 March **Thursday, March 5, 08:30–10:00, Room MB 3**

### RC 509 Percutaneous treatment of chronic back pain and sciatica LEVEL II

» **Chairman's introduction**
A. Gangi; Strasbourg/FR

**A. Sacroiliac joint syndrome**
D.J. Wilson; Oxford/UK

**B. Facet joint syndrome**
A.D. Kelekis; Athens/GR

**C. Intervertebral disc syndrome**
D. Filippiadis; Athens/GR

» **Panel discussion: How can imaging methods identify candidates for percutaneous therapy or surgery?**

5 March **Thursday, March 5, 10:30–12:00, Room D2**

### SS 609 Neuro interventions

**Moderators:** N. Amoretti; Nice/FR
A. Ringelstein; Essen/DE

5 March **Thursday, March 5, 14:00–15:30, Room D2**

### SS 709a TIPS and portal vein intervention

**Moderators:** A. Krajina; Hradec Králové/CZ
A. Massmann; Homburg/DE

5 March **Thursday, March 5, 14:00–15:30, Room K**

### SS 709b Biopsy techniques and solid tumour ablation

**Moderators:** O. Akhan; Ankara/TR
M. Reiter; Vienna/AT

5 March **Thursday, March 5, 16:00–17:30, Room MB 3**

### RC 809 Current trends in transarterial chemoembolisation (TACE) and radioembolisation for HCC LEVEL III

» **Chairman's introduction**
T.K. Helmberger; Munich/DE

**A. Imaging in therapy planning and follow-up**
M. Burrel; Barcelona/ES

**B. TACE and TAE for HCC: new agents, new schedules, new combinations**
R. Lencioni; Pisa/IT

**C. Radioembolisation: critical appraisal of techniques and guidelines for treatment**
J.I. Bilbao; Pamplona/ES

» **Panel discussion: The intermediate HCC patient: how can we stratify patients and allocate them to different therapies?**

# **Refresher** Courses / **Scientific** Sessions

## Interventional Radiology

6 March **Friday, March 6, 10:30–12:00, Room D2**

**SS 1009 Percutaneous ablation in liver tumours**

**Moderators:** F. Deschamps; Villejuif/FR
F. Orsi; Milan/IT

7 March **Saturday, March 7, 10:30–12:00, Room D2**

**SS 1409 Radioembolisation and chemoembolisation in liver tumours**

**Moderators:** M. Burrel; Barcelona/ES
T.A. Heusner; Düsseldorf/DE

8 March **Sunday, March 8, 10:30–12:00, Room D2**

**SS 1809 GI and abdominal interventions**

**Moderators:** I. Ahmed; London/UK
A. Veltri; Orbassano, Turin/IT

8 March **Sunday, March 8, 14:00–15:30, Room D2**

**SS 1909a Embolotherapy**

**Moderators:** A. Bharadwaz; Aarhus/DK
O. Pellerin; Paris/FR

8 March **Sunday, March 8, 14:00–15:30, Room K**

**SS 1909b Aortic interventions**

**Moderators:** M. Köcher; Olomouc/CZ
B. Peynircioglu; Ankara/TR

# **Refresher** Courses / **Scientific** Sessions

## Musculoskeletal

4 March **Wednesday, March 4, 10:30–12:00, Room E1**

### SS 210 Intervention

**Moderators:** I. Iacucci; Rome/IT
P. Robinson; Leeds/UK

4 March **Wednesday, March 4, 14:00–15:30, Room E1**

### SS 310 Fractures, spinal injuries and spine

**Moderators:** C. Masciocchi; L'Aquila/IT
G. Scheurecker; Linz/AT

4 March **Wednesday, March 4, 16:00–17:30, Room E1**

### RC 410 Trauma to the paediatric skeleton

LEVEL II

**Moderator:** K. Rosendahl; Bergen/NO

**A. Pelvis/hips**
N. Boutry; Lille/FR

**B. Elbow**
K.J. Johnson; Birmingham/UK

**C. Spine**
L.B.O. Jans; Ghent/BE

5 March **Thursday, March 5, 10:30–12:00, Room E1**

### SS 610a Shoulder, brachial plexus

**Moderators:** K.-F. Kreitner; Mainz/DE
D. Maric; Banja Luka/BA

5 March **Thursday, March 5, 10:30–12:00, Room K**

### SS 610b Lower extremity (1)

**Moderators:** K. Kapuscinska; Krakow/PL
N. Mamisch-Saupe; Zurich/CH

5 March **Thursday, March 5, 14:00–15:30, Room E1**

### SS 710 Lower extremity (2)

**Moderators:** A.M. Ierardi; Milan/IT
M. Reijnierse; Leiden/NL

5 March **Thursday, March 5, 16:00–17:30, Room E1**

### RC 810 The ankle and foot

LEVEL II

**Moderator:** J.L. Bloem; Leiden/NL

**A. Ankle sprain: patterns of injury**
J.L.M.A. Gielen; Antwerp/BE

**B. Inflammatory disorders**
R. Lalam; Oswestry/UK

**C. Tumours and tumour-like lesions**
I.-M. Noebauer-Huhmann; Vienna/AT

# **Refresher** Courses / **Scientific** Sessions

## Musculoskeletal

6 March **Friday, March 6, 10:30–12:00, Room E1**

### SS 1010a Tumours, systemic diseases and muscles

**Moderators:** A. Baur-Melnyk; Munich/DE
A. Yakimov; Moscow/RU

6 March **Friday, March 6, 10:30–12:00, Room MB 4**

### SS 1010b Hand, upper extremity

**Moderators:** I. Beggs; Edinburgh/UK
E.E. Drakonaki; Iraklion/GR

6 March **Friday, March 6, 16:00–17:30, Room E1**

### RC 1210 Sports injuries to the knee: improving my report

LEVEL II

**Moderator:** P. Robinson; Leeds/UK

**A. Reporting meniscal tears: pitfalls and how I avoid them**
G. Andreisek; Zurich/CH

**B. The collateral ligaments and posterolateral corner: what are they, why do they matter and how do I assess them?**
V. Vasilevska Nikodinovska; Skopje/MK

**C. The patellofemoral joint and osteochondral injuries: how do I assess and what do I report?**
S. Waldt; Munich/DE

7 March **Saturday, March 7, 08:30–10:00, Room E1**

### RC 1310 How I do it and report

LEVEL II

**Moderator:** K. Wörtler; Munich/DE

**A. MRI of the hip**
J. Teh; Oxford/UK

**B. MRI of the spine and sacroiliac joints**
C. Schueller-Weidekamm; Vienna/AT

**C. MRI of the hand**
M. Shahabpour; Brussels/BE

7 March **Saturday, March 7, 10:30–12:00, Room E1**

### SS 1410 Spine

**Moderators:** C. Giraudo; Vienna/AT
N.N.

7 March **Saturday, March 7, 14:00–15:30, Room E1**

### RC 1510 The hand and wrist

LEVEL II

**Moderator:** A. Plagou; Athens/GR

**A. Patterns of injury**
A. Navas Canete; Leiden/NL

**B. Inflammatory disorders**
H. Guerini; Paris/FR

**C. Tumours and tumour-like lesions**
E. Llopis; Valencia/ES

8 March **Sunday, March 8, 10:30–12:00, Room E1**

### SS 1810 Arthritis

**Moderators:** A. Cotten; Lille/FR
S. Weckbach; Munich/DE

8 March **Sunday, March 8, 14:00–15:30, Room E1**

### SS 1910 Knee

**Moderators:** M. Court-Payen; Copenhagen/DK
L.M. Sconfienza; San Donato Milanese/IT

# Refresher Courses / Scientific Sessions

## Neuro

4 March **Wednesday, March 4, 08:30–10:00, Room K**

### RC 111 The paediatric brain and spine: not only tumours

LEVEL II

**Moderator:** T.A.G.M. Huisman; Baltimore, MD/US

**A. Congenital abnormalities of the brain**
B. Ertl-Wagner; Munich/DE

**B. Paediatric brain neuro emergencies**
M.I. Argyropoulou; Ioannina/GR

**C. The paediatric spine: tips and tricks**
A. Rossi; Genoa/IT

4 March **Wednesday, March 4, 10:30–12:00, Room E2**

### SS 211a Inflammatory and degenerative disorders

**Moderators:** A. Bozzao; Rome/IT
N. Guberina; Essen/DE

4 March **Wednesday, March 4, 10:30–12:00, Room MB 5**

### SS 211b Vascular disorders, diagnosis and treatment

**Moderators:** M. Bendszus; Heidelberg/DE
K.D. Kurz; Stavanger/NO

4 March **Wednesday, March 4, 14:00–15:30, Room E2**

### SS 311a Brain trauma, degenerative and spine diseases

**Moderators:** P. Barsi; Budapest/HU
N.N.

4 March **Wednesday, March 4, 14:00–15:30, Room MB 5**

### SS 311b Hypertension and stenosis

**Moderators:** S. Haller; Geneva/CH
M. Khangure; Perth, WA/AU

4 March **Wednesday, March 4, 16:00–17:30, Room N**

### RC 411 Imaging findings in treated brain tumours

LEVEL III

**Moderator:** B.F. Schuknecht; Zurich/CH

**A. How to perform imaging in the postoperative patient: imaging protocols, normal and abnormal findings after surgery**
M.A. Lucic; Sremska Kamenica/RS

**B. Understanding radiation- and chemotherapy-induced changes after treatment of brain tumours**
Y. Özsunar; Aydin/TR

**C. Treated brain tumours: progression or pseudoprogression?**
P.C. Maly Sundgren; Lund/SE

5 March **Thursday, March 5, 08:30–10:00, Room G**

### RC 511 Cerebrovascular disease

LEVEL II

**Moderator:** M.P. Wattjes; Amsterdam/NL

**A. Vascular distribution territories: arterial and venous**
A. Dörfler; Erlangen/DE

**B. Detecting microhaemorrhages: why are they important? what are they? Should we use GRE T2* or SWI or both?**
H.R. Jäger; London/UK

**C. Cerebral perfusion studies in cerebrovascular disease: techniques, indications and applications**
P.M. Parizel; Antwerp/BE

5 March **Thursday, March 5, 10:30–12:00, Room E2**

### SS 611 Brain tumour (1)

**Moderators:** N. Bargalló; Barcelona/ES
M. Cirillo; Naples/IT

5 March **Thursday, March 5, 14:00–15:30, Room E2**

### SS 711 Brain tumour (2)

**Moderators:** J.S. Bauer; Munich/DE
P. Due-Tonnessen; Oslo/NO

# **Refresher** Courses / **Scientific** Sessions

## Neuro

6 March — Friday, March 6, 10:30–12:00, Room E2

### SS 1011 Ischaemic stroke (1)

**Moderators:** E. Avdagic; Sarajevo/BA
A. Bonafe; Montpelier/FR

7 March — Saturday, March 7, 08:30–10:00, Room E2

### RC 1311 Reporting spine imaging studies

LEVEL II

**Moderator:** M.A. Papathanasiou; Athens/GR

**A. Disc nomenclature and treatment strategy**
M. Gallucci; L'Aquila/IT

**B. What to say and not to say in your report**
M.M. Thurnher; Vienna/AT

**C. Introduction to structured reporting in the spine**
J. Van Goethem; Antwerp/BE

7 March — Saturday, March 7, 10:30–12:00, Room E2

### SS 1411 Ischaemic stroke (2)

**Moderators:** A. Biondi; Besançon/FR
A. Kemmling; Münster/DE

7 March — Saturday, March 7, 14:00–15:30, Room G

### RC 1511 White spots in the brain

LEVEL II

**Moderator:** E.T. Tali; Ankara/TR

**A. White spots and blots in the brain: what are they?**
T.A. Yousry; London/UK

**B. How can I improve my reporting of T2-hyperintense lesions?**
A. Rovira-Cañellas; Barcelona/ES

**C. Is there a need for quantitative reporting of white matter lesions?**
F. Barkhof; Amsterdam/NL

8 March — Sunday, March 8, 08:30–10:00, Room G

### RC 1711 Screening for cerebral aneurysms

LEVEL II

**Moderator:** A. van der Lugt; Rotterdam/NL

**A. Who are the patients that I should screen for aneurysms? Why should I screen? What are the medicolegal ramifications?**
M. Muto; Naples/IT

**B. Which technique to use? CT angiography, Time-of-Flight MR angiography, contrast-enhanced MR angiography, catheter angiography**
M. Voormolen; Antwerp/BE

**C. The interventional neuroradiology perspective on diagnosis, management and follow-up**
L. Pierot; Reims/FR

8 March — Sunday, March 8, 10:30–12:00, Room E2

### SS 1811 Brain epilepsy and inflammation

**Moderators:** P. Demaerel; Leuven/BE
E.J. Hendriks; Amsterdam/NL

8 March — Sunday, March 8, 14:00–15:30, Room E2

### SS 1911 Advanced imaging

**Moderators:** C. Mandel; East Melbourne/AU
J. Ramalho; Lisbon/PT

# **Refresher** Courses / **Scientific** Sessions

## Paediatric

4 March — Wednesday, March 4, 08:30–10:00, Room MB 5

### RC 112 Autoimmune disorders in children

LEVEL III

**Moderator:** V. Donoghue; Dublin/IE

**A. The joints in juvenile idiopathic arthritis**
L.-S. Ording Müller; Oslo/NO

**B. The digestive tract**
E. Alexopoulou; Athens/GR

**C. Multiple sclerosis in children**
C. Adamsbaum; Le Kremlin Bicêtre/FR

4 March — Wednesday, March 4, 10:30-12:00, Room MB 2

### SS 212 Chest imaging and dosimetry

**Moderators:** C. Owens; London/UK
S. Stafrace; Aberdeen/UK

4 March — Wednesday, March 4, 14:00-15:30, Room MB 2

### SS 312 Bone and soft tissue imaging

**Moderators:** O.J. Arthurs; London/UK
R.R. van Rijn; Amsterdam/NL

4 March — Wednesday, March 4, 16:00–17:30, Room MB 5

### RC 412 Imaging of foetus and infant

LEVEL III

**Moderator:** D. Prayer; Vienna/AT

**A. Foetal neuro imaging**
A. Rossi; Genoa/IT

**B. Foetal body imaging**
M. Cassart; Brussels/BE

**C. Foetal and neonatal urinary tract imaging**
C. Garel; Paris/FR

5 March — Thursday, March 5, 10:30-12:00, Room F2

### SS 612 Foetal and paediatric neuroimaging

**Moderators:** L.C. Tzarouchi; Ioannina/GR
N.N.

6 March — Friday, March 6, 10:30-12:00, Room MB 2

### SS 1012 Abdominal imaging

**Moderators:** M. Haliloglu; Ankara/TR
A.S. Littooij; Leiden/NL

6 March — Friday, March 6, 16:00–17:30, Room MB 5

### RC 1212 Hepatobiliary imaging in children

LEVEL II+III

**Moderator:** D. Akinci; Ankara/TR

**A. Imaging of liver masses**
D. Roebuck; London/UK

**B. Imaging of biliary disorders**
S.G.F. Robben; Maastricht/NL

**C. Intervention in the hepatobiliary system**
S. Franchi-Abella; Le Kremlin-Bicêtre/FR

7 March — Saturday, March 7, 14:00–15:30, Room M

### RC 1512 Key issues in paediatric imaging

LEVEL II+III

» **Chairman's introduction**
R.A.J. Nievelstein; Utrecht/NL

**A. Communicating effectively with parents and carers**
J. McNulty; Dublin/IE

**B. Paediatric imaging: when less is more**
J. Portelli; Msida/MT

**C. The importance of clinically acceptable image quality**
E. Sorantin; Graz/AT

» **Panel discussion: What are the essentials in education and training for paediatric imaging?**

8 March — Sunday, March 8, 08:30–10:00, Room M

### RC 1712 Imaging the head and skull base

LEVEL II+III

**Moderator:** J.W. Casselman; Bruges/BE

**A. Faciocraniosynostoses revisited**
F. Di Rocco; Paris/FR

**B. All about the paediatric pituitary gland**
M.I. Argyropoulou; Ioannina/GR

**C. Imaging of the orbit: the globe and the lacrimal gland**
P.C. Maly Sundgren; Lund/SE

# **Refresher** Courses / **Scientific** Sessions

## Physics in Radiology

4 March **Wednesday, March 4, 08:30–10:00, Room M**

### RC 113 Cone-beam CT

LEVEL III

**Moderator:** J.N. Vassileva; Vienna/AT

**A. Fundamentals of cone-beam CT**
J. Kuntz; Heidelberg/DE

**B. Medical applications of cone-beam CT**
M. Grass; Hamburg/DE

**C. 3D dentomaxillofacial imaging**
H. Bosmans; Leuven/BE

4 March **Wednesday, March 4, 10:30–12:00, Room F2**

### SS 213 Advances in CT imaging

**Moderators:** J. Geleijns; Leiden/NL
S. Vollmar; Erlangen/DE

4 March **Wednesday, March 4, 14:00–15:30, Room F2**

### SS 313 Advances in MR technology

**Moderators:** I. Seimenis; Alexandropolis/GR
J. Theysohn; Essen/DE

5 March **Thursday, March 5, 08:30–10:00, Room M**

### RC 513 Artifacts and pitfalls in tomography

LEVEL III

**Moderator:** J. Damilakis; Iraklion/GR

**A. CT**
M. Kachelrieß; Heidelberg/DE

**B. PET/CT**
T. Beyer; Vienna/AT

**C. MR/PET**
H.H. Quick; Essen/DE

5 March **Thursday, March 5, 14:00–15:30, Room F2**

### SS 713 Innovations in CT technology

**Moderators:** P.E. Colombo; Milan/IT
I. Sechopoulos; Atlanta, GA/US

6 March **Friday, March 6, 10:30–12:00, Room M**

### SS 1013 Optimisation of patient dose in CT

**Moderators:** A. Del Guerra; Pisa/IT
L.S. Guimaraes; Porto/PT

6 March **Friday, March 6, 16:00–17:30, Room M**

### RC 1213 Good radiation and bad radiation? How to assess and communicate radiation risk to patients and referring physicians

LEVEL III

**Moderator:** O. Ciraj-Bjelac; Belgrade/RS

**A. Radiation risk: a patient's perspective**
E. Briers; Hasselt/BE

**B. Radiation risks for patients and staff**
P. Gilligan; Dublin/IE

**C. Risk in MRI**
R. Peeters; Leuven/BE

**D. Communicating risks to patients and the public**
N. Leitgeb; Graz/AT

*This session is part of the EuroSafe Imaging campaign.*

7 March **Saturday, March 7, 08:30–10:00, Room M**

### RC 1313 IT tools for dose tracking and workflow optimisation

LEVEL III

**Moderator:** A. Trianni; Udine/IT

**A. Digital Imaging and Communication in Medicine (DICOM) and Integrating the Healthcare Enterprise (IHE) standards**
D. Peck; Detroit, MI/US

**B. Patient dose tracking: a must have?**
D. Zamora; Seattle, WA/US

**C. Optimising technique using patient dose tracking software - tips and tricks**
D. Murphy; Dublin/IE

7 March **Saturday, March 7, 16:00–17:30, Room M**

### RC 1613 MR: artifacts and devices

LEVEL III

**Moderator:** D. Bor; Ankara/TR

**A. Image artifacts in MRI and their mitigation**
D.J. Lurie; Aberdeen/UK

**B. Imaging around metal implants: artifact reduction in MRI**
C. McGrath; Belfast/IE

**C. Artifacts in perfusion and diffusion MRI**
I. Tsougos; Larissa/GR

8 March **Sunday, March 8, 10:30–12:00, Room F2**

### SS 1813 Novel digital imaging techniques

**Moderators:** M. Brink; Nijmegen/NL
N. Kalyvas; Athens/GR

8 March **Sunday, March 8, 14:00–15:30, Room F2**

### SS 1913 Patient and staff dose studies

**Moderators:** L. Struelens; Mol/BE
E. Vaño; Madrid/ES

# **Refresher** Courses / **Scientific** Sessions

## Radiographers

4 March **Wednesday, March 4, 10:30–12:00, Room K**

### SS 214 Musculoskeletal radiography

**Moderators:** S. Brandão; Porto/PT
N.N.

4 March **Wednesday, March 4, 14:00–15:30, Room K**

### SS 314 Quality issues

**Moderators:** W.R. Jaschke; Innsbruck/AT
J. McNulty; Dublin/IE

6 March **Friday, March 6, 08:30–10:00, Room D2**

### RC 914 Enhancing patient safety culture in radiology

» **Chairmen's introduction**
P. Bezzina; Msida/MT
L. Donoso; Barcelona/ES

**A. Patient safety culture: the importance of EU clinical audit guidelines**
S. Mc Fadden; Newtownabbey/UK

**B. Quality assurance of radiology equipment: the first step to create a safe working environment**
J. Santos; Coimbra/PT

**C. From medical imaging referral to final outcome: a critical analysis of the process**
D. Remedios; Harrow/UK

» **Panel discussion: Teamwork as a fundamental concept for creating a patient safety culture in a medical imaging department: why and how?**

6 March **Friday, March 6, 10:30–12:00, Room K**

### SS 1014 Radiation dose optimisation

**Moderators:** D.R. Kool; Nijmegen/NL
D. Pekarovic; Ljubljana/SI

7 March **Saturday, March 7, 08:30–10:00, Room D2**

### RC 1314 Radiography and evidence-based research: the way forward

» **Chairmen's introduction**
I. Henderson; Aberdeen/UK
M.G.M. Hunink; Rotterdam/NL

**A. The fundamentals of evidence-based research**
S. Mathers; Aberdeen/UK

**B. Application of evidence-based research into practice**
M. Gellert; Odense/DK

**C. Improvement of patient outcomes by evidence-based research**
K.G. Vikestad; Oslo/NO

» **Panel discussion: How to promote research as a tool for professional development?**

7 March **Saturday, March 7, 10:30–12:00, Room K**

### SS 1414 Dose management in medical imaging

**Moderators:** H.H. Hjemly; Oslo/NO
C. Loewe; Vienna/AT

7 March **Saturday, March 7, 14:00–15:30, Room D2**

### RC 1514 CT from A to Z

» **Chairmen's introduction**
E. Agadakos; Athens/GR
M. Prokop; Nijmegen/NL

**A. Exploring and exploiting CT technology: back to the future**
D. Pekarovic; Ljubljana/SI

**B. Patient safety in CT: radiation dose and CM administration**
F. Zarb; Msida/MT

**C. Tips and tricks for CT optimisation**
R. Booij; Rotterdam/NL

» **Panel discussion: How should radiographer develop the interface between patient and technology?**

# **Refresher** Courses / **Scientific** Sessions

## Radiographers

7 March **Saturday, March 7, 16:00–17:30, Room D2**

### RC 1614 MRI from the cradle to the future

» **Chairmen's introduction**
B. Hafslund; Nesttun/NO
M. Maas; Amsterdam/NL

**A. MRI sequences made easy**
S. Brandão; Porto/PT

**B. Functional MRI: new clinical applications**
C. Malamateniou; London/UK

**C. Safety in MRI: all you have to know**
C. Vandulek; Kaposvár/HU

» **Panel discussion: What to expect from MRI in the future of medical imaging?**

8 March **Sunday, March 8, 08:30–10:00, Room D2**

### RC 1714 Looking into PET-CT

» **Chairmen's introduction**
K. Åhlström Riklund; Umea/SE
D. Pekarovic; Ljubljana/SI

**A. Clinical indications of PET-CT**
P. Hogg; Manchester/UK

**B. Quality control for PET-CT**
W. van den Broek; Nijmegen/NL

**C. Safety in PET-CT**
J. Rio; Coimbra/PT

» **Panel discussion: What is the role of radiographer in PET-CT?**

8 March **Sunday, March 8, 10:30–12:00, Room K**

### SS 1814 Professional challenges for radiographers

**Moderators:** S. Geers-van Gemeren; Utrecht/NL
C. Roche; Galway/IE

# **Refresher** Courses / **Scientific** Sessions

## Vascular

4 March **Wednesday, March 4, 10:30–12:00, Room L 1**

### SS 215 Pre- and post-interventional work-up

**Moderators:** E. Brountzos; Athens/GR
R. Unterhinninghofen; Karlsruhe/DE

4 March **Wednesday, March 4, 14:00–15:30, Room L 1**

### SS 315 Innovations in vascular imaging

**Moderators:** C. Engelke; Göttingen/DE
B. Sekovski; Split/HR

4 March **Wednesday, March 4, 16:00–17:30, Room MB 1**

### RC 415 Basic principles of varicose vein diagnosis and endovascular treatment

LEVEL III

**Moderator:** D. Karnabatidis; Patras/GR

**A. Diagnostic cross-sectional imaging**
H. Hoppe; Berne/CH

**B. Saphenous vein ablation**
A. Rampoldi; Milan/IT

**C. Ultrasound guided sclerotherapy**
J. Brookes; London/UK

5 March **Thursday, March 5, 08:30–10:00, Room MB 1**

### RC 515 Imaging and intervention in acute ischaemic stroke

LEVEL II

**Moderator:** P. Zampakis; Patras/GR

**A. Acute stroke imaging**
K.-O. Løvblad; Geneva/CH

**B. Indications for intervention**
N. Kocer; Istanbul/TR

**C. Mechanical revascularisation**
T. van der Zijden; Edegem/BE

5 March **Thursday, March 5, 10:30–12:00, Room L 1**

### SS 615 Vascular imaging in systemic diseases

**Moderators:** T.J. Cleveland; Sheffield/UK
A. Keeling; Dublin/IE

5 March **Thursday, March 5, 14:00–15:30, Room Z**

### SS 715 Arteries and veins

**Moderators:** A. Capelastegui; Galdácano/ES
L. Mailli; Athens/GR

5 March **Thursday, March 5, 16:00–17:30, Room MB 1**

### RC 815 EVAR endoleaks: imaging and management

LEVEL II

**Moderator:** F. Fanelli; Rome/IT

**A. The role of US: Doppler, 3D US, CEUS**
U.K.M. Teichgräber; Jena/DE

**B. CTA and MRA: current concepts**
A. Bücker; Homburg a.d. Saar/DE

**C. Endovascular management**
M.A. Funovics; Vienna/AT

6 March **Friday, March 6, 10:30–12:00, Room Z**

### SS 1015 Low dose and low contrast in vascular imaging

**Moderators:** D. Farsaris; Athens/GR
G. Tsoumakidou; Strasbourg/FR

# **Refresher** Courses / **Scientific** Sessions

## Oncologic Imaging

4 March **Wednesday, March 4, 08:30–10:00, Room F1**

### RC 116 How about the lymph nodes? LEVEL I+II

» **Chairman's introduction**
J.J. Fütterer; Nijmegen/NL

**A. The current criteria for nodal involvement on CT/MRI**
W. Schima; Vienna/AT

**B. MRI techniques: what do they contribute?**
H.C. Thoeny; Berne/CH

**C. Nuclear medicine: PET and other techniques**
T. Barwick; London/UK

» **Panel discussion: When and how will imaging make diagnostic biopsy unnecessary?**

4 March **Wednesday, March 4, 10:30–12:00, Room F1**

### SS 216 Thoracic oncology

**Moderators:** I.E. Tyurin; Moscow/RU
A. Vilaplana; Sevilla/ES

4 March **Wednesday, March 4, 14:00–15:30, Room F1**

### SS 316 Molecular imaging and new agents

**Moderators:** A. Pomoni; Lausanne/CH
A.E. Sundin; Stockholm/SE

5 March **Thursday, March 5, 08:30–10:00, Room F1**

### RC 516 Gastro-entero-pancreatic neuro-endocrine tumours (GEP-NET): a multidisciplinary update LEVEL II

» **Chairman's introduction**
A.E. Sundin; Stockholm/SE

**A. Tumour biology, pathogenesis and classification**
M. Pavel; Berlin/DE

**B. The current role of nuclear medicine**
S. Fanti; Bologna/IT

**C. Anatomical imaging: transabdominal US, endoscopic US, MDCT and MRI: which is the most appropriate imaging approach?**
V. Vilgrain; Clichy/FR

» **Panel discussion: The future of hybrid imaging**

5 March **Thursday, March 5, 10:30–12:00, Room F1**

### SS 616 Whole-body imaging of systemic tumour spreading

**Moderators:** K.N. De Paepe; Leuven/BE
C.J. Johnston; Dublin/IE

5 March **Thursday, March 5, 14:00–15:30, Room F1**

### SS 716 Urogenital oncology

**Moderators:** R.A. Kubik-Huch; Baden/CH
I. Thomassin-Naggara; Paris/FR

6 March **Friday, March 6, 08:30–10:00, Room F1**

### RC 916 New insights in bone tumour imaging LEVEL III

» **Chairman's introduction**
D. Vanel; Bologna/IT

**A. New insights in treatment associated changes in patients with bone tumours**
C.R. Krestan; Vienna/AT

**B. New insights in staging and restaging musculoskeletal tumours introduction**
J.L. Bloem; Leiden/NL

**C. New insights in hybrid imaging for multiple myeloma**
G. Sommer; Basle/CH

» **Panel discussion: The future of bone tumour imaging**

6 March **Friday, March 6, 10:30–12:00, Room F1**

### SS 1016 Advances in imaging metastatic disease

**Moderators:** D. Filippiadis; Athens/GR
R.H. Reznek; London/UK

**Saturday, March 7, 10:30–12:00, Room F1**

### SS 1416 Prostate cancer imaging

**Moderators:** E.C. Pereira Mendes Serrao; Cambridge/UK
G. Petralia; Milan/IT

**Sunday, March 8, 10:30–12:00, Room F1**

### SS 1816 Response assessment: new concepts

**Moderators:** B. Banko; Belgrade/RS
A. Sohaib; Sutton/UK

**Sunday, March 8, 14:00–15:30, Room F1**

### SS 1916 Oncologic imaging of the GI tract

**Moderators:** G. Conte; Milan/IT
S.S. Doda; New Delhi/IN

# **Refresher** Courses / **Scientific** Sessions

## Emergency Radiology

4 March **Wednesday, March 4, 08:30–10:00, Room MB 4**

### RC 117 Polytrauma: comprehensive management guidelines for imaging

LEVEL I+II

» **Chairman's introduction: management priorities in patients after polytrauma**
M. Stajgis; Poznan/PL

**A. Chest and abdomen**
M. Scaglione; Castel Volturno/IT

**B. Spine and pelvis**
F.H. Berger; Amsterdam/NL

**C. Extremities**
U. Linsenmaier; Munich/DE

» **Panel discussion: How to speed up the diagnosis and further management of polytrauma patients**

4 March **Wednesday, March 4, 10:30–12:00, Room MB 4**

### SS 217 Emergency imaging: how to be more precise

**Moderators:** K.H. Nieboer; Brussels/BE
G. Schueller; Opfikon/CH

4 March **Wednesday, March 4, 14:00–15:30, Room MB 4**

### SS 317 Update on imaging approach in trauma patients

**Moderators:** J.B. Dormagen; Oslo/NO
L.M. Lenghel; Cluj-Napoca/RO

4 March **Wednesday, March 4, 16:00–17:30, Room MB 4**

### RC 417 ‚Special patients' in the emergency room: when and how to image them?

LEVEL I+II

**Moderator:** S. Wirth; Munich/DE

**A. Children**
V. Miele; Rome/IT

**B. Pregnant patients**
H. Alkadhi; Zurich/CH

**C. Elderly patients**
K. Katulska; Poznan/PL

6 March **Friday, March 6, 08:30–10:00, Room MB 4**

### RC 917 Acute pain: your friend and enemy in emergency radiology

ALL LEVELS

» **Chairman's introduction: patients with acute pain - management and therapeutic pathways**
J. Walecki; Warsaw/PL

**A. Head**
P.C. Maly Sundgren; Lund/SE

**B. Chest**
J.E. Wildberger; Maastricht/NL

**C. Abdomen**
R. Basilico; Chieti/IT

» **Panel discussion: Where does radiology fit in the pathway?**

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# Joint Sessions

# **Joint** Sessions

5 March **Thursday, March 5, 08:30–10:00, Room Z**

## Joint Session of ESR and EFSUMB

*(European Federation of Societes for Ultrasound in Medicine and Biology)*

## Advances in diagnostic ultrasound: better results through integration

LEVEL II+III

**Moderators:** G.H. Mostbeck; Vienna/AT
P.S. Sidhu; London/UK

» **Diagnosis, characterisation and staging of tumours of the female pelvis**
D. DeFriend; Abbotskerswell, Devon/UK
A. Rockall; London/UK

» **Diagnosis, characterisation and staging of renal tumours**
S. Freeman; Plymouth/UK
N. Grenier; Bordeaux/FR

» **Diagnosis, characterisation and staging of liver tumours**
H.-P. Weskott; Hannover/DE
A. Ba-Ssalamah; Vienna/AT

5 March **Thursday, March 5, 14:00–15:30, Room L 1**

## EIBIR Session

*(European Institute for Biomedical Imaging Research)*

## The complexity of personalised breast care

LEVEL III

» **Chairman's introduction**
T.H. Helbich; Vienna/AT

» **A life-course approach to understanding breast cancer genesis: connecting epidemiology, genetics, and pathology**
I. Dos Santos Silva; London/UK

» **VPH-PRISM aiding the therapy decision making process by quantitative evaluation of personal imaging and non-imaging data**
H.K. Hahn; Bremen/DE

» **Stroma and peritumoural stiffness: latest evidence for its importance and novel stroma imaging approaches to predict therapy response**
A. Evans; Dundee/UK

» **Personalised treatment decisions: how to reason using multi-modal, multi-disciplinary data**
R.M. Mann; Nijmegen/NL

5 March **Thursday, March 5, 14:00–15:30, Room M**

## EuroSafe Imaging Session 1

## Clinical decision support: making imaging referral guidelines work for patients, doctors and hospital managers

LEVEL I+II

» **Chairman's introduction**
G. Frija; Paris/FR

» **CDS impact on guidelines development**
K. Dreyer; Boston, MA/US

» **Adapting and updating guidelines**
M.G.M. Hunink; Rotterdam/NL

» **ACR select implementation experience**
J.A. Brink; Boston, MA/US

» **ESR iGuide**
L. Donoso; Barcelona/ES

» **Discussion**

5 March **Thursday, March 5, 14:00–15:30, Room N**

## ESOR Session

*(European School of Radiology)*

## Striving in radiological education

LEVEL II

**Moderators:** L. Bonomo; Rome/IT
N. Gourtsoyiannis; Athens/GR

» **Introduction**
L. Bonomo; Rome/IT

» **ESOR in action 2015**
N. Gourtsoyiannis; Athens/GR

» **The role of the European Training Curriculum: present and future**
B. Ertl-Wagner; Munich/DE

» **Spoon-feeding: present and future**
P. Ros; Cleveland, OH/US

» **E-learning portfolios: present and future**
M. Maas; Amsterdam/NL

*Awards*
*During the session, scholars and fellows will be awarded certificates for successfully completing the 2014 ESOR Scholarship and Fellowship Programmes.*

# Joint Sessions

6 March **Friday, March 6, 08:30–10:00, Room G**

## EFOMP Workshop

*(European Federation of Organisations for Medical Physics)*

### EF 1 Multi-energy imaging: from physics to diagnosis I

LEVEL II

**Moderators:** P. Sharp; Aberdeen/UK
V. Tsapaki; Athens/GR

» **Chairman's introduction**
P. Sharp; Aberdeen/UK

» **Image-based material decomposition with energy-selective detectors in multi-energy CT: a review**
M. Kachelrieß; Heidelberg/DE

» **Novel applications of multi-energy CT**
J. Sosna; Jerusalem/IL

» **New frontiers in CT: functional and multi-energy imaging**
A. Persson; Linköping/SE

6 March **Friday, March 6, 08:30–10:00, Room M**

## ESR Research in Education and Training Session

### Research for trainees made easy: critical reading of the literature

LEVEL II

**Moderator:** J. Hodler; Zurich/CH

» **Introduction**
J. Hodler; Zurich/CH

» **Overwhelmed by the available information? How to organise yourself**
P. Rodríguez; Madrid/ES

» **Errors you should detect when reading scientific papers**
A.K. Dixon; Cambridge/UK

» **Clinical relevance of publications: influence on outcome**
D.J. Wilson; Oxford/UK

» **Do not be afraid of basic science papers**
N. Grenier; Bordeaux/FR

» **Summary**
J. Hodler; Zurich/CH

6 March **Friday, March 6, 10:30–12:00, Room G**

## EFOMP Workshop

*(European Federation of Organisations for Medical Physics)*

### EF 2 Multi-energy imaging: from physics to diagnosis II

LEVEL II

**Moderators:** J. Damilakis; Iraklion/GR
A. Torresin; Milan/IT

» **Chairman's introduction**
J. Damilakis; Iraklion/GR

» **Multi-energy imaging in the thorax**
P. Vock; Spiegel/CH

» **Dual-energy CT in oncology**
C.N. De Cecco; Rome/IT

» **Clinical application of multi-energy imaging in digital mammography**
C. Dromain; Villejuif/FR

6 March **Friday, March 6, 10:30–12:00, Room L 1**

## EIBIR Session

*(European Institute for Biomedical Imaging Research)*

### What's new in biomedical imaging research: an update of EIBIR activities

» **Chairman's introduction**
G.P. Krestin; Rotterdam/NL

» **Presentation from the European Commission on Horizon 2020**
A.S. Costescu; Brussels/BE

» **EIBIR Joint Initiative for Paediatric Radiology**
K. Rosendahl; Bergen/NO

» **EIBIR Joint Initiative: Biomedical Image Analysis Platform**
W.J. Niessen; Rotterdam/NL

» **EIBIR Joint Initiative for Image Guided Radiotherapy**
V. Valentini; Rome/IT

» **EIBIR Joint Initiative for Euro-BioImaging**
S. Aime; Turin/IT

# **Joint** Sessions

6 March **Friday, March 6, 13:00–15:00, Room D2**

## MIR @ ECR Session 1
## MIR: best of professional issues in radiology

**Moderators:** t.b.a.

» **13:00 Overview of MIR activities and the benefits of attending MIR conferences**
P. Mildenberger, Mainz/DE

» **13:10 Update on radiology: a strategy for the future**
E. Denton, Norfolk/UK

» **13:30 Update on imaging biobanks**
E. Neri, Pisa/IT

» **13:50 Update on decision support for radiology**
K. Dreyer, Boston, MA/US

» **14:10 Update on social media in radiology**
S. Morozov, Moscow/RU

» **14:30 Update on economics**
B. Brkljacic, Zagreb/HR

» **14:50 Discussion**

Management in Radiology is a subcommittee of the ESR Professional Organisation Committee.

Those involved in the field of healthcare are experiencing a time of increasing pressure, stress and change. The demand for efficiency and effectiveness in all business and administrative matters is constantly growing. MIR addresses current challenges and provides a forum for education and the exchange of ideas and concepts.

6 March **Friday, March 6, 14:00–15:30, Room MB 2**

## EuroSafe Imaging Session 2
## EuroSafe imaging call for action

ALL LEVELS

» **Chairman's introduction**
G. Frija; Paris/FR

» **EuroSafe imaging call for action**
G. Frija; Paris/FR

» **EuroSafe imaging training and education activities and data collection project "Are you EuroSafe?"**
P. Vock; Spiegel/CH

» **Role of radiographers in medical radiation protection in the context of EuroSafe imaging**
G. Paulo; Coimbra/PT

» **Role of medical physicists in medical radiation protection in the context of EuroSafe imaging**
J. Damilakis; Iraklion/GR

» **New European approaches to medical low-dose research**
J. Repussard; Paris/FR

» **Panel discussion: EuroSafe Imaging - feedback, contributions, future activities, endorsement**
N. Bedlington; Vienna/AT (European Patients Forum)
N. Denjoy; Brussels/BE (COCIR)
G. Simeonov; Luxembourg/LU (European Commission) *(tbc)*
M. Perez; Geneva/CH (WHO) *(tbc)*
O. Holmberg; Vienna/AT (IAEA)

6 March **Friday, March 6, 14:00–15:30, Room L 1**

## EIBIR Session
*(European Institute for Biomedical Imaging Research)*
## MITIGATE consortium: state of the art imaging and therapy in GIST

LEVEL III

**Chairpersons:** S.O. Schönberg; Mannheim/DE
I. Virgolini; Innsbruck/AT

» **Selective internal radiotherapy in GIST patients**
S. Diehl; Mannheim/DE

» **Multimodal imaging in GIST**
D. Longo; Torino/IT

» **Principle of X-Nuclei MR imaging: what the radiologist should know**
L. Schad; Mannheim/DE

# Joint Sessions

6 March **Friday, March 6, 14:00–15:30, Studio 2015**

## Joint Session of the ESR and ESMRMB
*(European Society for Magnetic Resonance in Medicine and Biology)*
## The ABC and 123 of perfusion MRI: DSC, DCE and ASL explained

LEVEL II

**Moderators:** X. Golay; London/UK
M. Smits; Rotterdam/NL

» **Perfusion MRI: DSC, DCE and ASL**
L. Knutsson; Lund/SE

» **Clinical applications of brain perfusion MRI**
H.R. Jäger; London/UK

» **DCE-MRI in oncology - when is quantitative imaging essential?**
A.R. Padhani; London/UK

» **Panel discussion**

6 March **Friday, March 6, 14.00–15:30, Room A**

## Image Interpretation Quiz (IIQ) Couples for Europe

**Moderator:** C.M. Schaefer-Prokop; Amersfoort/NL

» **Team 1:**
M.G. Mack; Munich/DE
P.C. Maly Sundgren; Lund/SE

» **Team 2:**
A.A. Bankier; Boston, MA/US
F. Pugliese; London/UK

» **Team 3:**
J.J. Fütterer; Nijmegen/NL
G. Zamboni; Verona/IT

6 March **Friday, March 6, 15:30–17:30, Room D2**

## MIR @ ECR Session 2 Improving quality and safety in radiology

**Moderators:** J.A. Brink, Boston, MA/US
R. FitzGerald, Shropshire/UK

» **15:30 First experiences from a nation-wide peer review in radiology**
A. Brady, Cork/IE

» **15:50 How to organise meaningful audits in radiology**
P. Cavanagh, Taunton/UK

» **16:10 Errors in radiology: how to learn from a systematic approach**
D.A. Koff, Hamilton, ON/CA

» **16:30 Round table discussion: Learning from critical situations or errors: examples from around the world**
E. Denton, Norfolk/UK
J. Jakobsen, Oslo/NO
U. Senol, Antalya/TR
J.A. Brink, Boston, MA/US
C. Kahn, Philadelphia, PA/US
M. Fatehi, Tehran/IR
P. Valdes Solis, Marbella/ES

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Those involved in the field of healthcare are experiencing a time of increasing pressure, stress and change. The demand for efficiency and effectiveness in all business and administrative matters is constantly growing. MIR addresses current challenges and provides a forum for education and the exchange of ideas and concepts.

= Interactive session with electronic voting/self assessment

# **Joint** Sessions

7 March **Saturday, March 7, 08:30–10:00, Room Z**

## Joint Session of the ESR and EORTC

*(European Organisation for Research and Treatment of Cancer)*

**Imaging in multicentre clinical oncological trials** LEVEL II

**Moderators:** L.S. Fournier; Paris/FR
Y. Liu; Brussels/BE

» **Imaging in clinical trials: the EORTC perspective**
Y. Liu; Brussels/BE

» **Standardisation and quality assessment of imaging as surrogate endpoints**
N.M. deSouza; Sutton/UK

» **Optimised imaging for trials in brain tumours**
M. Smits; Rotterdam/NL

» **Multiparametric MRI in breast and prostate cancer**
T.H. Helbich; Vienna/AT

7 March **Saturday, March 7, 10:30–12:00, Room L 1**

## ESR Patient Advisory Group for Medical Imaging

**PAGMI 1 The challenges of providing true patient-centred care: moving forward together** LEVEL II+III

» **Chairmen's introduction**
N. Bedlington; Vienna/AT
P. Cavanagh; Taunton/UK

» **Ethics in patient-centred radiology**
C.D. Claussen; Tübingen/DE

» **Lost in radiology: is there a doctor in the department?**
E. Briers; Hasselt/BE

» **An ESR framework for delivering patient-centred care in radiology's services**
P. Cavanagh; Taunton/UK

» **Panel discussion: on the 'driver diagram for patient-centred care in clinical radiology'**

7 March **Saturday, March 7, 13:00–14:00, Room A**

## Junior Image Interpretation Quiz (JIIQ) Battle for the audience

**Moderator:** M. Dewey; Berlin/DE

» **Team A:**
A. Ntorkou; Thesprotia/GR
A. Caric; Split/HR
P. Flechsig; Heidelberg/DE
N. Cardobi; Verona/IT

» **Team B:**
M. Faure; Antwerp/BE
D. Uceda Navarro; Valencia/ES
E. Herin; Paris/FR
A. Chopra; Sheffield/UK

7 March **Saturday, March 7, 14:00–15:30, Room Z**

## Joint Session of the ESR and ESTRO

*(European Society for Radiotherapy and Oncology)*

**ESTRO 1 Non-surgical approach to early lung cancer: perspectives of imaging and radiation-based disciplines** LEVEL II

**Moderators:** Y. Lievens; Ghent/BE
T. Franquet; Barcelona/ES

» **Imaging requirements to guide non-surgical treatment in early lung cancer**
C.M. Schaefer-Prokop; Amersfoort/NL

» **The most up-to-date evidence from the interventional oncology perspective**
R. Lencioni; Pisa/IT

» **The most up-to-date evidence from the radiation oncology perspective**
S. Senan; Amsterdam/NL

» **Imaging follow-up of non-surgical treatments**
A.R. Larici; Rome/IT

» **Discussion**

= Interactive session with electronic voting/self assessment

# Joint Sessions

7 March Saturday, March 7, 14:00–15:30, Room L 1

## EuroSafe Imaging Session 3 Dose-tracking leads the way to dose-reduction

LEVEL II

- **Chairman's introduction: dose-tracking leads to dose-reduction: why radiologists MUST get involved**
  P.M. Parizel; Antwerp/BE
- **The legislative environment in Europe: the new EU Directive and the goals of EuroSafe Imaging**
  J. Griebel; Neuherberg/DE
- **Implementing a dose management solution in your department: where to start and what to expect?**
  D. Weishaupt; Zurich/CH
- **Developing a multi-disciplinary team in dose management (CT example)**
  L. Martí-Bonmatí; Valencia/ES
- **PiDRL - European Commission Tender Project on diagnostic reference levels in paediatric imaging**
  J. Damilakis; Iraklion/GR
- **Deploying a dose management strategy across multiple sites**
  K. Katsari; Athens/GR
- **Panel discussion**

7 March Saturday, March 7, 16:00–17:30, Room L 1

## EuroSafe Imaging Session 4 How can clinical audit enhance patient safety?

ALL LEVELS

- **Chairman's introduction**
  E.J. Adam; London/UK
- **A new approach to clinical audit and safety by the ESR**
  P. Cavanagh; Taunton/UK
- **Models of external audit in the Netherlands**
  S. Geers-van Gemeren; Utrecht/NL
- **Clinical audit in cardiac CT: the UK experience**
  S. Harden; Southampton/UK
  E. Castellano; London/UK
- **The European Radiation Protection Regulator's perspective on audit**
  S. Ebdon-Jackson; Didcot/UK
- **Panel discussion**

7 March Saturday, March 7, 16:00–17:30, Room Z

## Joint Session of the ESR and ESTRO

*(European Society for Radiotherapy and Oncology)*

## ESTRO 2 Radiology and radiation oncology: new chances for a partnership

LEVEL II

**Moderator:** P. Poortmans; Nijmegen/NL
L. Bonomo; Rome/IT

- **Introduction**
  L. Bonomo; Rome/IT
- **Imaging in oncology: achievements and limitations**
  V.J. Goh; London/UK
- **Interventional radiology in oncology: achievements and limitations**
  J.I. Bilbao; Pamplona/ES
- **Interventional radiology and radiation oncology: working together**
  D. Verellen; Brussels/BE
- **Panel discussion: The future partnership between radiology and radiation oncology**

# **Joint** Sessions

8 March **Sunday, March 8, 08:30–10:00, Room Z**

## EDiR talk

*(European Diploma in Radiology)*

## FA(b)Q frequently asked (burning) questions - with answers

The participants will learn about the EDiR structure and become familiar with its format. They will learn very useful information about their EDiR examination and its preparation and will receive an answer to all questions they may have related to the exam.

**Moderator:** Y. Menu; Paris/FR

» **Questions about registration**
Y. Menu; Paris/FR
E. Jordan; Barcelona/ES

» **Questions about preparation**
W. Schima; Vienna/AT

» **Questions about written examination**
S. Barter; Cambridge/UK

» **Questions about oral examination**
L. McKnight; Langland, Swansea/UK

» **Questions about the future**
Y. Menu; Paris/FR
V. Iranzo; Barcelona/ES

» **Panel discussion: More FA(b)Q and its answers**
J. Vilar; Valencia/ES

8 March **Sunday, March 8, 08:30–10:00, Studio 2015**

## Joint Session of the ESR and ERS

*(European Respiratory Society)*

## Lung cancer screening: why and how to implement a comprehensive preventive programme

LEVEL II

**Moderator:** M. Prokop; Nijmegen/NL
J.-P. Sculier; Brussels/BE

» **Should we do lung cancer screening now? The evidence**
C.J. Herold; Vienna/AT

» **CT requirements and nodule workup**
F. Gleeson; Oxford/UK

» **Diagnostic and treatment approaches to lesions found in CT screening**
F.J.F. Herth; Heidelberg/DE

» **Designing a screening programme**
N. Peled; Petach Tiqwa/IL

8 March **Sunday, March 8, 10:30–12:00, Room L 1**

## ESR Patient Advisory Group for Medical Imaging

## PAGMI 2 Communicating the results of radiological studies to patients: from high-tech to human touch imaging

LEVEL I

» **Chairmen's introduction**
N. Bedlington; Vienna/AT
B. Brkljačić; Zagreb/HR

» **Who is the patient of the radiologist?**
L.E. Derchi; Genoa/IT

» **Communicating results of radiological studies to the patient with breast cancer: view of the patient who is also a physician**
A. Balenović; Zagreb/HR

» **Brain disorder - the communication challenge**
D. Walsh; Dublin/IE
M. Messmer-Wullen; Lochau/AT

» **Panel discussion: From high-tech to human touch - how do we ensure this transition and what are the roles for the ESR and member societies?**

# Satellite Symposia

Industrial Satellite Symposia are organised by various international companies. These sessions are a chance to get an industry perspective on various scientific subjects, including technical updates, emerging trends and future innovations.

The symposia vary in length from one hour to 90 minutes, with the number of speakers also differing between companies and subjects.

Places are allocated on a first-come, first-served basis.

## Satellite Symposia organised by

Bayer HealthCare, Bracco, GE Healthcare, Guerbet,
Hitachi Medical Systems, Hologic, Philips, Samsung,
Siemens Healthcare, Supersonic Imagine, Toshiba Medical Systems

# **Satellite** Symposia

## Breast Care Day

Organised by Siemens Healthcare in cooperation with Bayer HealthCare

4 March **Wednesday, March 4, 10:30–12:00, Studio 2015**

Satellite Symposium jointly organised by Siemens Healthcare and Bayer HealthCare

### The power of MRI in breast diagnostics and therapy

**Moderator:** S.H. Heywang-Köbrunner; Munich/DE

» **Future trends in breast MRI: TWIST-VIBE for breast cancer staging in 2 min**
R.M. Mann; Nijmegen/NL

» **Whole body MRI: changing the management paradigm for metastatic bone disease**
A.R. Padhani; London/UK

» **Breast MRI: insights from recent clinical trials**
J. Barkhausen; Lubeck/DE

» **Positive long-term results after implementing intensive breast MRI use in an area population**
J. Camps Herrero; Valencia/ES

4 March **Wednesday, March 4, 12:15–13:45, Studio 2015**

Satellite Symposium jointly organised by Siemens Healthcare and Bayer HealthCare

### Multimodality lunch symposium: planning and control of breast cancer therapy

**Moderator:** C. Van Ongeval; Leuven/BE

» **Introduction**
C. Van Ongeval; Leuven/BE

» **Strain imaging ultrasound technology (virtual touch IQ)**
M. Golatta; Heidelberg/DE

» **Value of digital breast tomosynthesis for preoperative local staging of breast cancer**
L.J. Pina Insausti; Pamplona/ES

» **MR for operation planning**
C.K. Kuhl; Aachen/DE

» **Integration of molecular diagnostics in breast imaging**
P. Fasching; Erlangen/DE

4 March **Wednesday, March 4, 14:00–15:30, Studio 2015**

Satellite Symposium organised by Siemens Healthcare

### Advantages of 3D and hybrid technologies in mammography

**Moderator:** R.M. Mann; Nijmegen/NL

» **Routine use of digital breast tomosynthesis (DBT) for the assessment of screen-detected cases**
S.H. Heywang-Köbrunner; Munich/DE

» **Requirements for digital reading in breast care: a report from the practice**
K. Ridder; Dortmund/DE

» **Experiences with a breast ultrasound: tomosynthesis hybrid**
M. Golatta; Heidelberg/DE

4 March **Wednesday, March 4, 16:00–17:00, Studio 2015**

Satellite Symposium organised by Siemens Healthcare

### The dense breast - a challenge: multimodality breast image reading and discussion of clinical cases

**Moderator:** C. Van Ongeval; Leuven/BE

» **MRI perspective**
E. Wenkel; Erlangen/DE

» **Tomo/mammo perspective**
M. Bernathova; Vienna/AT

# **Satellite** Symposia

4 March **Wednesday, March 4, 12:30–13:30, Room G**
Satellite Symposium organised by
Bayer HealthCare

» Programme to be announced

4 March **Wednesday, March 4, 12:30–13:30, Room M**
Satellite Symposium organised by
SuperSonic Imagine
**UltraFast™ ultrasound and ShearWave™ elastography provides new clinical opportunities**

» Programme to be announced

5 March **Thursday, March 5, 12:30–13:30, Room F2**
Satellite Symposium organised by
Bayer HealthCare

» Programme to be announced

5 March **Thursday, March 5, 12:30–13:30, Room E1**
Satellite Symposium organised by
Bracco

» Programme to be announced

5 March **Thursday, March 5, 12:30–13:30, Room K**
Satellite Symposium organised by
GE Healthcare
**Imagine what oncology can be with MR and PET/MR**

» Programme to be announced

5 March **Thursday, March 5, 12:30–13:30, Room M**
Satellite Symposium organised by
Siemens Healthcare
**Leading with MAGNETOM**

» Programme to be announced

5 March **Thursday, March 5, 12:30–13:30, Studio 2015**
Satellite Symposium organised by
Siemens Healthcare
**Driving innovations in ultrasound**

» **The benefits of CEUS and fusion in abdominal ultrasound**
D.A. Clevert; Munich/DE

» **Strain imaging and its clinical advantages in the abdomen and pancreas**
M. D'Onofrio; Verona/IT

» **Ultrasound in radiology**
N.N.

5 March **Thursday, March 5, 12:30–13:30, Room G**
Satellite Symposium organised by
Toshiba Medical Systems

» Programme to be announced

6 March **Friday, March 6, 12:30–13:30, Room F2**
Satellite Symposium jointly organised by
Bayer HealthCare and Siemens Healthcare
**Synergies in CT for better patient care**

» Programme to be announced

6 March **Friday, March 6, 12:30–13:30, Room E1**
Satellite Symposium organised by
Bracco

» Programme to be announced

6 March **Friday, March 6, 12:30–13:30, Room K**
Satellite Symposium organised by
GE Healthcare
**Breast imaging innovation for better patient care**

**Moderator:** L. Katz; Buc/FR

» **Breast tomosynthesis experience after 40,000+ examinations**
L. Levy; Paris/FR

» **CESM: from initial research to daily clinical routine**
M. Lobbes; Maastricht/NL

» **Breast MR: when, why and how**
L. Martincich; Candiolo/IT

# **Satellite** Symposia

6 March **Friday, March 6, 12:30–13:30, Room G**

Satellite Symposium organised by
Guerbet

**Guidelines and practice in diagnostic and interventional radiology: follow the lines!**

**Moderator:** T.C. Lauenstein; Essen/DE

» **Assessment of high-grade glioma with RANO-criteria: can advanced MRI imaging techniques help?**
A. Radbruch; Heidelberg/DE

» **Best practice in MDCT: how to optimise the radiation reduction and iodine use?**
D. Caramella; Pisa/IT

» **Barcelona-clinic liver cancer guidelines: cTACE positioning within the guidelines**
T.C. Lauenstein; Essen/DE

6 March **Friday, March 6, 12:30–13:30, Studio 2015**

Satellite Symposium organised by
Hitachi Medical Systems

» Programme to be announced

6 March **Friday, March 6, 12:30–13:30, Room N**

Satellite Symposium organised by
Philips

» Programme to be announced

6 March **Friday, March 6, 12:30–13:30, Room M**

Satellite Symposium organised by
Samsung

**New premium technology of Samsung**

**Moderator:** J. Sunwoo; Seoul/KR

» **Introduction of Samsung technology**
J. Sunwoo; Seoul/KR

» **S-Fusion of RS80A**
N.N.

» **Pilot study of NExCT**
N.N.

» **Questions and answers**

6 March **Friday, March 6, 12:30–13:30, Room C**

Satellite Symposium organised by
Toshiba Medical Systems

» Programme to be announced

6 March **Friday, March 6, 14:00–15:30, Room M**

Satellite Symposium organised by
GE Heathcare Russia

**Multimodal approaches to the perfusion and diffusion assessment: expanding horizons for medical imaging!**

**Moderator:** I.N. Pronin; Moscow/RU

» **Cardiac CT and cardiac GSI in assessment of myocardial scars**
V.E. Sinitsyn; Moscow/RU

» **Nuclear and hybrid imaging in assessment of myocardial perfusion: state of the art**
K.V. Zavadovskiy; Tomsk/RU

» **CT GSI and MRI in assessment of pulmonary perfusion in patients with chronic thromboembolic disease**
E.A. Mershina; Moscow/RU

» **Perfusion in PET**
D.V. Ryzhkova; Moscow/RU

» **Arterial Spin Labeling (ASL): new horizons in brain perfusion assessment**
I.N. Pronin; Moscow/RU

6 March **Friday, March 6, 14:00–15:30, Room C**

Satellite Symposium organised by
Hologic

**Screening with breast tomosynthesis: an emerging reality**

» Programme to be announced

# **Satellite** Symposia

7 March **Saturday, March 7, 12:30–13:30, Room M**

Satellite Symposium organised by
Bracco

**Contrast-enhanced ultrasound in the imaging of patients at risk of developing malignant lesions**

**Moderator:** C. Stroszczynski; Regensburg/DE

» **The role of CEUS in the detection and diagnosis of liver metastases**
M.C. Beermann; Stockholm/SE

» **Surveillance of patients with liver cirrhosis: is there still a role for CEUS?**
V. Cantisani; Rome/IT

» **Quantification on DCEUS: new trends and developments**
F. Tranquart; Geneva/CH

7 March **Saturday, March 7, 12:30–13:30, Room C**

Satellite Symposium organised by
GE Healthcare

» Programme to be announced

7 March **Saturday, March 7, 12:30–13:30, Room N**

Satellite Symposium jointly organised by
Philips

**Early detection of breast cancer and dose reduction for mammography and tomosynthesis**

» **Photon counting technology: early detection and dose reduction for mammography and tomosynthesis**
N.N.

» **Spectral lesion characterisation initial clinical results**
N.N.

» **Personalised breast care with a spectral breast density measurement**
N.N.

**ECR Student Registration for only €40**
Students and radiographers-in-training under the age of 30, without any academic degree, can register for just €40.

**Student Sessions**
The submitting authors of the best 20 abstracts will be invited to the ECR to present their work, with their accommodation and travel expenses paid by the European Society of Radiology.

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Student workshops on ultrasound, for beginners and advanced participants.
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**facebook.com/ESRRisingStars**

# Industry Workshops

Intensive practical sessions organised directly by a particular company or commercial vendor. Classes are conducted on their own state-of-the-art workstations with expert technical support provided by company staff. Participants have the opportunity to learn from experts about using computers and medical devices in the field of radiology and gain first-hand knowledge.

As a registered attendee for the ECR, participation is free of charge.

## Industry Workshops organised by

Bayer HealthCare, Fujifilm Europe,
GE HealthCare, Hologic, I.M.S. – Internazionale Medico Scientifica,
Siemens Healthcare, Toshiba Medical Systems

# **Industry** Workshops

4 March **Wednesday, March 4, 14:00–15:30**

Industry Workshop organised by
Siemens Healthcare

» **MRI Reading Session: Breast tomosynthesis reading in the context of multimodality breast diagnostics**
M. Bernathova; Vienna/AT

4 March **Wednesday, March 4, 16:00–17:30**

Industry Workshop organised by
Siemens Healthcare

» **Tomosynthesis Reading Session: MRI breast reading and reporting**
C. Kaiser; Mannheim/DE

Industry Workshop organised by
Bayer HealthCare

» Programme to be announced

Industry Workshop organised by
Fujifilm Europe

» **Fujifilm Academy of Breast Imaging: introduction to digital breast tomosynthesis**
» **Fujifilm Academy of Breast Imaging: advanced training on digital breast tomosynthesis application in daily practice**

Industry Workshop organised by
GE Healthcare

» Programme to be announced

Industry Workshop organised by
Hologic

» **Hologic breast tomosynthesis imaging with C-view software**
» **Vacuum breast biopsy guided by tomosynthesis - clinical experience and practical demonstration**

**Thursday, March 5**
10:15-11:30
13:45-15:00
15:30-16:45

**Friday, March 6**
10:15-11:30
12:15-13:30

**Saturday, March 7**
10:15-11:30
13:45-15:00
15:30-16:45

Industry Workshop organised by
I.M.S. – Internazionale Medico Scientifica

» Programme to be announced

Industry Workshop organised by
Toshiba Medical Systems

» Programme to be announced

Industry Workshop organised by
MAMMOTOME

» Programme to be announced

EBR

*European Board of Radiology*

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*European Diploma in Radiology*

# EDiR
# YOUR PASSPORT TO A BETTER CAREER

*Next Exam:*
March 3–6, 2015 (ECR, Vienna, Austria )

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## EUROPEAN EXCELLENCE IN EDUCATION ($E^3$)

### $E^3$ – Rising Stars Programme:

**M. Szczerbo-Trojanowska; Lublin/PL**
Case-Based Diagnosis Training . . . **K.M. Friedrich; Vienna/AT**
**S. Robinson; Vienna/AT**

### $E^3$ – The Beauty of Basic Knowledge:

Skeletal Radiology . . . **V.N. Cassar-Pullicino; Oswestry/UK**
Breast Imaging . . . **J. Camps Herrero; Valencia/ES**

### $E^3$ – European Diploma Prep Sessions:

**B. Ertl-Wagner; Munich/DE**

### $E^3$ – ECR Academies:

Hybrid Imaging . . . **G. Antoch; Düsseldorf/DE (basic)**
**K. Åhlström Riklund; Umea/SE (advanced)**
Image-Guided Interventions in Oncology . . . **F. Orsi; Milan/IT**
Diagnostic Urogenital Radiology . . . **H.C. Thoeny; Berne/CH**
Interactive Teaching Sessions . . . **M.G. Mack; Munich/DE**
Modern Imaging of the GI Tract . . . **S.A. Taylor; London/UK**

### $E^3$ – Master Classes:

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Breast (EUSOBI) . . . **F. Sardanelli; San Donato Milanese/IT**
Cardiac (ESCR) . . . **R. Vliegenthart; Groningen/NL**
Chest (ESTI) . . . **E. Castañer; Sabadell/ES**
Molecular Imaging (ESMOFIR) . . . **F.M.A. Kiessling; Aachen/DE**
Genitourinary (ESUR) . . . **H.C. Thoeny; Berne/CH**
Head and Neck (ESHNR) . . . **B. Verbist; Leiden/NL**
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Oncologic Imaging (ESOI) . . . **A.G. Rockall; London/UK**
Emergency Radiology (ESER) . . . **M. Stajgis; Poznan/PL**

## MINI COURSE

### Joint Course of ESR and RSNA (Radiological Society of North America): Emergency Radiology

**A.D. Gean; San Francisco, CA/US**
**U. Linsenmaier; Munich/DE**
**S.E. Mirvis; Baltimore, MD/US**
**A. Palkó; Szeged/HU**
**M. Smits; Rotterdam/NL**
**R.J. Zagoria; San Francisco, CA/US**

## MULTIDISCIPLINARY SESSIONS

Management of rectal cancer:
a paradigm shift . . . **R.G.H. Beets-Tan; Maastricht/NL**
Solving the crossword puzzle in
diffuse interstitial lung disease (DILD) . . . **H.-U. Kauczor; Heidelberg/DE**
Critical limb ischemia (CLI):
limb salvage or life salvage? . . . **J.A. Reekers; Amsterdam/NL**

## PROS AND CONS SESSION

Breast cancer:
to screen or not to screen? . . . **F. Sardanelli; San Donato Milanese/IT**