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March 2019 – March 2020

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Prudencia Tyrrell, Oswestry/UK
ESMRMB School of MRI
Koenraad Verstraete, Ghent/BE

All ESOR courses are exclusively open to ESR members. Further information about ESR membership is available on the ESR website myESR.org.

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

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Dear Colleagues,

ESOR has already completed twelve challenging and rewarding years of uninterrupted commitment and continuous investment in radiological education in Europe and worldwide. It keeps on moving around an enthusiastic and informed community, the ESOR community, with already more than 2,000 trainees, scholars and fellows participating in its programmes, every year.

During 2019, ESOR will be delivering again complementary, interactive, accredited, modular training to residents and board-certified radiologists, through foundation and advanced courses, visiting professorship programmes, visiting seminars, tutorials, preparatory courses for the European Diploma (EDiR), scholarships, exchange programmes for fellowships and full one-year fellowships. With its expanded course programme and the intercontinental scholarships and exchange programmes for fellowships, ESOR is able to respond adequately to the actual needs of radiologists around the globe, following agreements between the ESR and corresponding member societies. Quite a number of established and newly introduced platforms will be upgraded in content, while new synergies are evolving, resulting in new fulfilling educational tasks. In 2019, ESOR is further intensifying its presence in Asia with new courses in the Philippines as well as in India and is strengthening its ties with Latin America. As ESOR is not only concerned with education in radiology but aims also to prepare the new generation with methods that could impact multiple facets of radiology, ESOR is proud to organise the ESR’s first two-day event on Artificial Intelligence in Barcelona/ES.

Moreover, the certified full one-year ESOR fellowships will be offered for a fifth year in a row in twelve renowned European Institutions, whereas the recently introduced Bracco Fellowships – clinical, research and management – are again organised, multiplying and enriching the educational opportunities and furthering the commitment to young radiologists.

All of these educational activities are implemented with the unlimited support of highly esteemed and renowned lecturers, tutors, mentors, volunteering reference training centres, host organisers, subspecialty and national societies, academic institutions, and valued industrial partners. ESOR is greatly indebted to them all.

I would like to encourage all of you and especially younger colleagues to participate in the ESOR programmes and benefit from internationally renowned faculties and/or training in pre-selected, highly esteemed reference training centres in Europe and worldwide.

Professor Valérie Vilgrain
ESOR Scientific/Educational Director
# INTRODUCTION

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EUROPEAN SCHOOL
OF RADIOLOGY

The European School of Radiology (ESOR) is an established and growing project, fulfilling the mission of the European Society of Radiology (ESR) in the field of education. Its main goal is to assist in harmonising radiological education in Europe. With its wide range of activities, ESOR additionally aims to raise standards in the field of scientific radiology, to extend and coordinate teaching resources worldwide and to help young radiologists to obtain the knowledge and skills to fulfil tomorrow’s requirements. ESOR stands for education in partnership.
## ESOR ACTIVITIES

### Target Groups

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Courses EUROPE
ESOR GALEN Courses 2019

The GALEN Courses have been designed to familiarise young radiologists with the established approaches and most recent achievements in diagnostic imaging, related to topics across the modalities. The courses are aimed at residents and recently board-certified radiologists from around the world.

GALEN FOUNDATION COURSE

NEURORADIOLOGY
May 23-25, Lisbon/Portugal

LEVEL I+II

GALEN ADVANCED COURSES

WOMEN’S IMAGING
June 13-14, Malmö/Sweden

LEVEL II+III

CARDIO-THORACIC CROSS-SECTIONAL IMAGING
July 4-5, Tübingen/Germany

LEVEL II+III

ONCOLOGIC IMAGING FROM HEAD TO TOE
September 5-6, Paris/France

LEVEL II+III
ESOR Courses for EDIR 2019

ESOR is continuing to organise preparatory courses for residents and board-certified radiologists, wishing to take the exams of the European Diploma in Radiology (EDiR). A series of courses is organised in Vienna/Austria at the end of the year. It is possible to attend either one course only, or several courses of the series.

NEURORADIOLOGY
November 6, Vienna/Austria

HYBRID IMAGING
November 7, Vienna/Austria

MUSCULOSKELETAL RADIOLOGY
November 8, Vienna/Austria

HEAD AND NECK RADIOLOGY
November 9, Vienna/Austria

PAEDIATRIC RADIOLOGY
November 11, Vienna/Austria

CARDIAC IMAGING
November 12, Vienna/Austria

CHEST IMAGING
November 13, Vienna/Austria

BREAST IMAGING
November 14, Vienna/Austria

ABDOMINAL IMAGING
November 15, Vienna/Austria
The established ASKLEPIOS project is tailored toward serving professional development by addressing recognised needs in the context of continuous radiological education. Its programmes include multi-thematic, organ-oriented, multimodality and multidisciplinary advanced courses, aimed at senior residents, general radiologists, private practitioners in radiology, and allied specialists.

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<thead>
<tr>
<th>Course</th>
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<td>MULTIDISCIPLINARY APPROACH TO CANCER IMAGING</td>
<td>November 4-5, Amsterdam/The Netherlands</td>
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<td>RADIOMICS AND IMAGING BIOMARKERS IN ONCOLOGIC IMAGING</td>
<td>December 12-13, Heidelberg/Germany</td>
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The main focuses of this ESR/ESOR AI event are the basic technical principles of AI and how they are applied to diagnostic imaging and clinical applications. The basic concepts of machine and deep learning will be explored, more information about the type and consistency of imaging data processed by AI tools will be unveiled, and the main potential and emerging clinical applications of this technology will also be covered. The event features two special sessions which will bring a European flavour to it. The first of these sessions is a panel discussion about the future of radiology and radiologists in the era of AI. The second session is open to SME companies in the field of AI to present themselves, showcasing their product and the advantages of AI in different scenarios of their choice.

Prof. Toby Walsh, from the University of New South Wales in Sydney and author of “It’s Alive!: Artificial Intelligence from the Logic Piano to Killer Robots” and “2062: The World that AI Made”, will be the guest lecturer with a key note lecture on: AI and Radiology.

This event will also be live streamed. More details will be announced at a later stage.

**Learning objectives:**
- to learn the basic principles of machine and deep learning
- to forecast the professional impact of AI in radiology
- to explore the potential and emerging clinical applications
- to measure the radiologist’s performance in image interpretation with respect to AI tools

**INTELLIGENCE. INNOVATION. IMAGING – THE PREFECT VISION OF AI**

An ESR Premium Event brought to you by ESOR.
April 5-6, Barcelona/Spain
VISITING PROFESSORSHIP PROGRAMMES

2019

The ESOR Visiting Professorship Programmes are one-day educational activities delivered by three European faculty members taking place in connection with national meetings of the ESR member societies. The respective topics are chosen by the inviting societies. One of those professorships is part of the ESR Support Initiative, which aims to improve access to radiological training and educational resources for aspiring physicians and scientists in less affluent regions in Europe, with the goal of ensuring better healthcare for future generations in those regions.

The support country of 2019 is Georgia.

ONCOLOGIC IMAGING OF THE ABDOMEN AND PELVIS
GEORGIAN CONGRESS OF RADIOLOGY
within the ESR Support Initiative
May 3, Tbilisi/Georgia

PAEDIATRIC RADIOLOGY
BULGARIAN CONGRESS OF RADIOLOGY
September 26, Varna/Bulgaria

BREAST IMAGING
BALKAN CONGRESS OF RADIOLOGY
October 17, Heraklion/Greece

LEVEL II+III
The aim of the ESOR Tutorials is to further the experience of young radiologists, residents in their last year of training and board-certified radiologists, in daily radiological practice through intense teaching and exchange in a European reference center. In Graz the participants are offered one week of practical and theoretical knowledge and the opportunity to be integrated in the activities of an academic department of radiology. The tutorial will be organised by the Medical University Graz under the chairmanship of Prof. M. Fuchsjäger. In 2019, 12 places are available for radiologists from Russia and the CIS countries. The application deadline is May 31, 2019. For more information about the application process, visit esor.org.
Creating educational ties and partnerships with other societies in the wider domain of imaging is a key feature of the ESOR philosophy. One such partnership has been successfully built up with the European Society for Magnetic Resonance in Medicine and Biology (ESMRMB) and its School of MRI, thus avoiding unnecessary competition and providing better educational opportunities within the radiological community. As an outlook for 2019, six courses will be organised by the School of MRI in Europe, whereby all are targeted at physicians and technicians/radiographers.

**CLINICAL FMRI & DMRI – THEORY AND PRACTICE**

* tba, Cardiff/United Kingdom  
* Course organiser: Alexander Leemans, Utrecht/NL  
* Local organiser: Derek Jones, Cardiff/UK

**MR OF THE ABDOMEN**

* September 12-14, Barcelona/Spain  
* Course organiser: Christoforos Stoupis, Maennedorf/CH  
* Local organiser: Carmen Ayuso, Barcelona/ES

**MR SAFETY**

* October 17-19, Valencia/Spain  
* Course organiser: Siegfried Trattnig, Vienna/AT  
* Local organiser: Luis Marti-Bonmati, Valencia/ES

**MR IMAGING OF THE MUSCULOSKELETAL SYSTEM**

* October 24-26, Barcelona/Spain  
* Course organiser: Prudencia Tyrrell, Oswestry/UK  
* Local organiser: Xavier Thomas, Barcelona/ES

**E-LEARNING: BASIC COURSE ON APPLIED MR TECHNIQUES**

* September 2 - October 21  
* Course organiser: Claudia Lenz, Basel/CH

**E-LEARNING: ADVANCED COURSE ON APPLIED MR TECHNIQUES**

* November 4 – December 9  
* Course organiser: Claudia Lenz, Basel/CH
The courses will be organised by the European School of Neuroradiology (ESONR) of the European Society of Neuroradiology, Diagnostic and Interventional (ESNR): Creating educational ties and partnerships with other societies in the wider domain of imaging is a key feature of the ESOR philosophy. Another cooperation has been set up with the European Society of Neuroradiology, Diagnostic and Interventional (ESNR) and its European Course of Neuroradiology (ECNR), which has become part of the educational activities of ESOR for several years.

Upon successful completion of all four modules (one entire cycle) the eligible participants can apply for a final examination to obtain the European Diploma in Neuroradiology (EDiNR). The EDiNR certifies that the holder has a level of knowledge and competence in line with the requirements of the European Board of Neuroradiology EBNR GmbH (www.ebnr.org)

The cooperation between ESOR and ESNR will certainly round off and enhance high-level educational opportunities for radiologists in training.

Further details on courses as well as the registration are available at www.esnr.org

Learning objectives:
• to impact teaching-based lectures and workshops, rather than academic-type conferences, to transmit rather than deliver information
• to acquire basic neuroscience and clinical core knowledge
• to provide theoretical bases of present and future clinical practice and research in diagnostic and interventional neuroradiology
• to impart highly interactive diagnostic, interventional and mixed-type neuroradiological workshops

15th Cycle of the ECNR, 2nd Module
TUMORS
29 April – May 3, Antwerp/Belgium

15th Cycle of the ECNR, 3rd Module
VASCULAR AND TRAUMATIC DISEASES
October 13-17, Rovinj/Croatia
Courses INTERNATIONAL
ESOR AIMS Seminars 2019

The Advanced Imaging Multimodality Seminars (AIMS) programme has been set up by ESOR to create educational links and exchange between the European Society of Radiology and national radiological societies outside Europe. The programme is materialised in partnership with the Korean Society of Radiology (KSR), the Mexican Federation of Radiology (FMRI), and the Mexican Society of Radiology (SMRI) and is made possible through an unrestricted grant from Bracco. The AIMS programmes are aimed at board-certified radiologists and specialists. These are organ- or subspecialty oriented, focused on the most recent diagnostic advances available and offer ample opportunities to share and exchange scientific knowledge and expertise.

AIMS MEXICO

HOW GENERAL RADIOLOGISTS SHOULD DEAL WITH PAEDIATRIC IMAGING
April 10, Mexico City/Mexico
April 12, León/Mexico

AIMS KOREA

PRESENT AND FUTURE IN MSK RADIOLOGY
July 13, Seoul/Korea
The established ASKLEPIOS project, which is tailored toward serving professional development by addressing recognised needs in the context of continuous radiological education, was introduced on an international level. Its programmes focus on topics across the modalities and are aimed at senior residents and general radiologists.

**ASKLEPIOS COURSE PHILIPPINES**
**HEAD AND NECK RADIOLOGY**
July 12, Manila/The Philippines

**ASKLEPIOS COURSE THAILAND**
**HEAD AND NECK RADIOLOGY**
July 15, Bangkok/Thailand

**ASKLEPIOS COURSES BRAZIL**
**NEURORADIOLOGY**
August 29, Porto Alegre/Brazil
August 31, Rio de Janeiro/Brazil

**ASKLEPIOS COURSES CHINA**
**CARDIAC IMAGING - CT & MR**
September 10, Beijing/China
September 12, Shanghai/China

**ASKLEPIOS COURSE INDIA**
**ABDOMINAL ONCOLOGIC IMAGING**
November 15-16, Kolkata/India
VISITING PROFESSORSHIP PROGRAMMES overseas 2019

The ESOR Visiting Professorship Programmes complement and round off ESOR’s international educational offer. The one-day courses are usually linked to a national educational activity and are organised together with the respective national radiological society.

ONCOLOGIC IMAGING
August 7, Cartagena/Colombia

BREAST IMAGING
November 2, Mar del Plata/Argentina
The aim of the ESOR Astana Tutorial is to further the experience of young radiologists, residents in their late years of training and board-certified radiologists, in daily radiological routine through exchange and intense teaching in the Central Asian reference centre. The ESOR Astana Tutorial 2019 will be organised by the National Research Cardiac Surgery Centre in Astana under the chairmanship of Dr. T. Dautov, and is sponsored by Siemens Healthineers.

For one week participants are offered practical and theoretical knowledge and the opportunity to be integrated in the activities of an academic department of radiology. The ESOR Astana Tutorial is aimed at radiologists from Central Asia, including Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan.
SCHOLARSHIPS/FELLOWSHIPS
VISITING SCHOLARSHIP PROGRAMME
Europe and Jo Li

VISITING SCHOLARSHIP PROGRAMME EUROPE

The ESOR Visiting Scholarship Programme (Europe) offers qualified trainees the opportunity to get to know another training environment and to kick off an interest for subspecialisation in radiology. During three months of training the scholars will be provided with a structured, modular introduction to different subspecialties and will be supervised by a specialised tutor in a pre-selected, highly esteemed academic training centre in Europe.

Number of available scholarships

During 2019, up to 36 scholarships are available on different topics and will be realised in partnership with Bracco and ESR. One additional scholarship for Spanish residents in partnership with the Spanish Foundation of Radiology and three scholarships for Greek residents supported by the Hellenic Radiological Society will be offered. Furthermore, two of the available scholarships will be provided for residents from Georgia within the ESR Support Initiative.

Important information:
- Residents in training years 3-5
- Duration: three months
- Active ESR membership
- Application closes March 11

VISITING SCHOLARSHIP PROGRAMME FOR CHINESE RADIOLOGISTS – JO LI

The ESOR Jo Li Visiting Scholarship Programme offers qualified radiologists from China the opportunity to be provided with exposure to advanced techniques, imaging protocols and practices. During three months of training the scholar will be provided with a structured, modular training on the chosen topic and will be supervised by a specialised tutor at Queen Elizabeth Hospital in Birmingham, United Kingdom.

Important information:
- Fully qualified and practising Chinese radiologists at any stage of their career
- Duration: three months
- Active ESR membership
- Application closes September 30
The ESOR Visiting Scholarship Programme (USA) offers qualified trainees the opportunity to get to know another training environment in the USA and to kick off an interest for subspecialisation in radiology. During three or six months of training the scholars will be provided with a structured, modular introduction to oncologic imaging and will be supervised by a specialised tutor in a pre-selected, highly esteemed academic training centre in USA.

**Number of available scholarships**

During 2019, two scholarships are available at the Memorial Sloan Kettering Cancer Center. One scholarship will take place in spring and will have a duration of six months and the second scholarship will occur in autumn and last for three months.

**Important information:**
- Residents in training years 3-5
- Duration: six months (spring semester) three-months (autumn semester)
- Active ESR membership
- Application closes **April 15 (autumn 2019)** and **September 30 (spring 2020)**
EXCHANGE PROGRAMME
for Fellowships Europe

The development of subspecialty fellowships in radiology through proper and structured training is one of the major aims of ESR and ESOR. ESOR, in partnership with the European subspecialty societies, has organised Exchange Programmes for Fellowships, which are aimed at rounding off educational requirements for subspecialty fellowships. The programmes are structured and mentored, and they are offered throughout a number of major European volunteer reference centres.

Number of available fellowships:
During 2019, 33 places are available and will be realised in partnership with the following subspecialty societies: the European Society of Gastrointestinal and Abdominal Radiology (ESGAR), the European Society of Breast Imaging (EUSOBI), the European Society of Cardiovascular Imaging (ESCR), the European Society of Head and Neck Radiology (ESHNR), the European Society for Hybrid, Molecular and Translational Imaging (ESHI\textsuperscript{MT}), the European Society of Musculoskeletal Radiology (ESSR), the European Society for Neuroradiology, Diagnostic and Interventional (ESNR), the European Society of Oncologic Imaging (ESOI), the European Society of Paediatric Radiology (ESPR), and the European Society of Thoracic Imaging (ESTI).

Important information:
• Board-certified radiologists within their first three years of practice
• Duration: three months
• Active ESR membership
• Application closes March 11
EXCHANGE PROGRAMME
for Breast Imaging Fellowships USA

The need to mobilise resources available for subspecialisation outside Europe and to benefit from worldwide renowned academic institutions led the European School of Radiology (ESOR) and the Memorial Sloan-Kettering Cancer Center (MSKCC) to take the initiative in jointly offering a breast imaging fellowship in the USA.

The overall aim of this programme is to promote clinical research and advance clinical care in order to improve breast cancer patient outcomes worldwide. The exchange programme is organised through ESOR and will expose trainees to all aspects of breast imaging under the supervision of assigned mentors at the Memorial Sloan-Kettering Cancer Center in New York, US.

Number of available fellowships:
During 2019, two places will be available. One will be for European radiologists only while the other will be exclusively for applicants from Latin America (Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay and Venezuela).

Important information:
• Board-certified radiologists with three to six years of professional experience
• At least a one-year involvement in breast imaging
• Duration: six months
• Active ESR membership
• Application closes September 30

NICHOLAS GOURTSOYIANNIS
Teaching Fellowship

This fellowship, established by the European Radiology Private Foundation, is aimed at radiologists with clinical and academic experience, who wish to enhance their teaching and training skills, by delivering lectures and undertaking interactive workshops in a foreign environment.

Important information:
• Board-certified radiologists who have completed three to ten years of clinical/academic practice at the time of application
• Active ESR membership
• Application closes May 15
The ESOR One-year Fellowships offer qualified radiologists a unique opportunity to enter competitive, thematic, structured and certified proper fellowships at major renowned European reference centres, which are funding the programme.

During 12 months of training the fellows will be incorporated in the specific departments to work on a dedicated, detailed programme supervised by specialised academic tutors.

TOPICS AND TRAINING CENTRES 2019/2020:

» Abdominal Imaging, Clichy/France
» Abdominal Radiology, Jerusalem/Israel
» Breast Imaging, Jerusalem/Israel
» Cardiac MRI, Graz/Austria
» Cardiovascular Imaging, Rotterdam/The Netherlands
» Chest Radiology, Heidelberg/Germany
» Imaging Biomarkers in Cancer, Lisbon/Portugal
» Imaging of Cancer, Amsterdam/The Netherlands
» Interventional Neuroradiology, Barcelona/Spain
» Interventional Radiology, Nijmegen/The Netherlands
» Neuro-inflammatory disorders, Lille/France
» Paediatric Imaging, Ioannina/Greece
» Paediatric Radiology, Le Kremlin Bicêtre/France

Important information:
• Board-certified radiologists within their first three years of practice
• Duration: twelve months
• Active ESR membership
• Application opens in November (for the year 2020/2021)
BRACCO FELLOWSHIPS

This programme, devoted to the professional and scientific development of young radiologists, has been created on the occasion of the 90th anniversary of Bracco, in furthering Bracco’s unbroken commitment to support the radiological community at large. Bracco will provide 90 grants that will be used to create training opportunities for young radiologists with high scientific potential at enrolling leading academic centres.

PROGRAMMES:

Candidates may apply for ONLY one of the three available types of fellowships:

» Clinical Fellowship - 2 months
   The aim of the clinical fellowship is to learn about a specific disease or technique, a protocol, specific organ, specific approach or clinical application.

» Management Fellowship - 2 months
   The aim of the management fellowship is to understand the multiprofessional organisation of radiology departments.

» Research Fellowship - 4 months
   The goal of this programme is to develop skills in research and research methodology.

Important information:

- Residents in their last years of training and board-certified radiologists
- Duration: two months (clinical and management fellowships) four months (research fellowships)
- Active ESR membership
- Application closes in September (for the year 2020)
EDUCATION IN PARTNERSHIP

ESOR stands for education in partnership. We thank our partner societies, national societies, institutions and ESR subspecialty societies for their support and collaboration:
EDUCATION IN PARTNERSHIP

We thank our industry partners for supporting the activities of ESOR:

- AIMS Korea
- AIMS Mexico
- GALEN Foundation and Advanced Courses
- Visiting Scholarship Programme Europe
- Bracco Fellowships

- ASKLEPIOS Course on Musculoskeletal Radiology
- ASKLEPIOS Course on Advances in MR Imaging
- ASKLEPIOS Course on Emergency Radiology (Trauma)
- ASKLEPIOS Course on Most common GI Disorders
• ASKLEPIOS Course The Philippines on Head and Neck Radiology
• ASKLEPIOS Course Thailand on Head and Neck Radiology
• ASKLEPIOS Courses China on Cardiac Imaging - CT and MR

• ASKLEPIOS Course on Body Oncologic Imaging

• Astana Tutorial

Thank you!