ANNUAL REPORT
21-22
March 2021 until July 2022
The years of 2021 and 2022 were marked by a continuation of difficulties caused by the unprecedented global pandemic, affecting primarily the European Congress of Radiology (ECR). The last onsite ECR was held in 2019 with the congress moving to an online format for two years thereafter. Despite this, the European Society of Radiology (ESR) successfully manoeuvred through numerous obstacles that it was faced with, and once again proved its resilience and adaptability, culminating with a return to an onsite congress in 2022.

Under the leadership of ESR President, Prof. Regina Beets-Tan, the ECR returned home with a stunning and sunny congress that catered to both online and onsite attendees. The congress, held July 13-17, 2022, welcomed more than 15,000 participants, solidifying ECR as a true hybrid meeting that can offer ground-breaking science, research, and networking for all, regardless of how they choose to participate.

Moreover, the ESR working year, previously lasting from March to March, was amended and will take place from July to July in the future.

Despite having to navigate through these challenging times, the ESR has remained a cornerstone of global radiology and is proud of the achievements realised in the previous year, which are summarised in the report below.

On behalf of the ESR, we would like to thank our members, our industry partners, and the radiological community as a whole. Overcoming these challenging times would not have been possible without your support.

Prof. Michael Fuchsjäger
Chairman of the ESR Board of Directors
II.

ACTIVITY REPORT

March 2021 until July 2022

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1. **ESR WORKING YEAR 2021/2022**

An extraordinary General Assembly was convoked in February 2022, where it was decided to amend the ESR working year, previously lasting from March to March, to take place from July to July in the future with an extension of the ESR Working Year 2021/2022.
In 2021, the ESR was able to further increase its membership and counted 125,314 members from 181 countries as of December 2021.

125,314 members from 181 countries
49 European National Member Societies
15 European Subspecialty and Allied Sciences Member Societies
53 Associate Institutional Member Societies
ESR PREMIUM EDUCATION PACKAGE

The Premium Education Package has grown from strength to strength over the past year. It is now a go-to destination for radiologists seeking to satisfy their educational needs. The package boasts an even wider range of content this year. It offers medical imaging professionals all of the radiological education they require, including unlimited access to Education on Demand, Eurorad, and all existing and upcoming content on ESR Connect. This includes more than 1,200 hours of on-demand educational video content, more than 500 courses with 600 eCME available, and access to the largest database of peer-reviewed radiological case reports. The package also includes exclusive access to all content and recorded sessions from ECR 2022 and all ESOR Live and Foundation courses.
The ESR Annual Leadership Meeting (ALM) was held as a hybrid event on November 19, 2021, in Graz and welcomed close to 100 attendees onsite and over 30 attendees online. The ESR Annual Leadership Meeting is the major annual get-together of the ESR National and Subspecialties and Allied Sciences Societies where important topics in radiology are discussed. At the ALM 2021 in Graz, topics including education and training, value-based radiology and fostering research in radiology were discussed. A highlight was the lively roundtable discussion on the digitisation and lasting impact of COVID-19 on education and training with participants onsite and online from different ESR National Societies.
In addition to the virtual ECR 2021 (March 3-7), the ECR 2021 Summer Edition marked the return to in-person meetings from July 1-3 in Vienna.

Over the course of three days participants enjoyed a packed scientific, educational, and entertaining congress programme. Additionally, those present in Vienna experienced all the benefits of an in-person meeting.

Inspired by the ECR’s “The Cube” concept, the three-day programme focused on interventional and cardiovascular radiology and neuroradiology under the motto ‘Heart meets Brain – Interventionally’.
In December 2021, the ESR decided to move ECR 2022 from its initial date in March to July 13-17, 2022. This decision was made based on the still ongoing implications caused by the COVID-19 pandemic and to ensure a safe meeting for all involved parties.

At the ECR 2022 Overture, which took place March 2-6, 2022, the ESR provided a spectacular preview on what the main event in July would have to offer. The Overture, attracting 4,000 participants, was held as an online congress presented from a state-of-the-art studio in Vienna.
The ECR returned home in July 2022 with its first full onsite event since March 2019 - a stunning and sunny congress that lived up to all expectations for both online and onsite attendees. The congress welcomed more than 15,000 participants, solidifying ECR as a true hybrid meeting that can offer ground-breaking science, research and networking for all, regardless of how they choose to participate.

The much-awaited return to Vienna under the leadership of ESR President, Regina Beets-Tan (Amsterdam/NL), marked a moment of magic as colleagues and friends reunited to celebrate the latest advancements in the world of radiology.
ECR 2022 Overture Highlights

• Five channels full of scientific and educational sessions
• Channel 1, which hosted sessions filmed live from a state-of-the-art studio in Vienna
• Some of the brightest and most accomplished figures in medical imaging met onsite
• A special focus on multidisciplinarity and interactivity
• Sessions featuring C-level leaders from Bracco, Canon, Fujifilm, GE Healthcare and Guerbet and members of the ESR Board of Directors

ECR 2022 Highlights

• The Opening Ceremony ‘Shine’ featuring a dedicated ECR 2022 song
• Debut of the Open Forums, four locations in open spaces around the congress centre, proved to be especially popular
• Patients in Focus offered a stage for doctors and patients to connect in a series of highly informative sessions. The programme also saw the launch of Be accepted – a tool for women with cancer to help support and inform them during their patient journey
• Return of the Cube – a whole section of the congress dedicated to interventional radiology with an enclosed simulator adventure park
• The dedicated AI Exhibition and AI Theatre to showcase the latest AI, machine learning and big data innovations in imaging
• Key industry partners were set up for the first time in digital villages based directly in the main congress building, creating an interactive and enjoyable way for visitors to discover their innovations
• The Summer Lounge, a huge area hosting the registration desk, ESR Meets booths, a bar and a restaurant offering a great break-out space for participants between sessions. In addition, the chance to get vaccinated against COVID-19 was offered in the lounge to any and all visitors – a unique opportunity
INTERNATIONAL DAY OF RADIOTHERAPY

As always, the International Day of Radiology (IDoR) took place on November 8. IDoR 2021 was dedicated to Interventional Radiology and its essential role in treating patients. Radiologists, radiographers and other healthcare professionals took the opportunity to champion interventional radiology and medical imaging more broadly, promoting its critical functions within the patient journey and the healthcare continuum. National and international societies, companies and institutions got involved in the celebrations with a huge number of groups and individuals taking to social media to highlight how they were honouring the day with videos and photos.
The ESR International Forum was established by the ESR to intensify collaboration and discuss selected topics of global relevance in radiology with partner societies from outside Europe. It is held annually during the ECR, and participation is by invitation only, with the invitations usually being extended to the societies with whom the ESR has a Memorandum of Understanding.

Continuing the practice established in the previous year, the ESR International Forum 2021 was organised in a modified, virtual format under the topic "A more visible radiologist can never be replaced by AI." The ESR International Forum 2021 compiled written reports from radiological societies from across the globe, documenting their experiences, positions, and views concerning the relationship of AI and radiology. A paper based on individual societies' reports was prepared by Prof. Nikoleta Traykova (Plovdiv/BG), Chairperson of the ESR Communication & External Affairs Committee, and published in the ESR's online journal Insights into Imaging, thus presenting the global response.

ECR 2022 marked the return to an onsite International Forum and the ESR was able to once again welcome participants from all over the globe. The participating societies presented their opinions on the topic "Role of Radiology in a Multidisciplinary Approach to Patient Care." A paper based on the presented views is being prepared by Prof. Nikoleta Traykova (Plovdiv/BG).
COOPERATION WITH INTERNATIONAL ORGANISATIONS

International Atomic Energy Agency (IAEA)
The ESR and the IAEA continued their multifaceted collaboration under the practical arrangements on cooperation in the area of diagnostic imaging, including hybrid imaging. Within a partnership facilitated by the IAEA, the ESR iGuide stand-alone portal was offered to approx. thirty hospitals in Africa, with organisational accounts for the French and English content versions. This joint endeavour is mentioned, for example, in an article on “How to improve access to medical imaging in low- and middle-income countries?” published in eClinicalMedicine in August 2021.

The ESR was represented in the IAEA Technical Meeting on Radiation Protection in Fluoroscopically Guided Interventional Procedures, 7–9 March 2022, and contributed to the topic “Optimization and DRLs: experiences from countries and regions”.

Following their successful joint session at ECR 2021, ESR EuroSafe Imaging and the IAEA organised a joint Open Access Session at ECR 2022 on “Enhancing radiation protection of patients in CT practices in Africa: opportunities for synergies between Africa, the IAEA and ESR”, featuring high-ranking IAEA and ESR officers.

World Health Organization (WHO)
As a member of the International Society of Radiology (ISR), the ESR provided organisational support for the WHO_ISR-WFUMB Webinar held on September 14, 2021, to celebrate World Patient Safety Day, as well as for the WHO_ISR-WFPI World TB Day 2022 Scientific Symposium held on 24 March, which attracted attendees from all over the world.

Lancet Oncology Commission on Medical Imaging and Nuclear Medicine
The Lancet Oncology Commission on Medical Imaging and Nuclear Medicine, initiated by the IAEA in 2018 with the aim to increase global awareness of the importance of cancer imaging and improving access to imaging, was successfully launched at ECR 2021. The ESR is one of the supporting organisations of the Commission.

COOPERATION WITH INTERPROFESSIONAL ORGANISATIONS

As reflected in the ECR 2022 theme of building bridges, the ESR is not only working closely with radiological societies in Europe and around the world, but has also established relations with several collaboration partners from other disciplines. In 2021, the ESR renewed its collaboration agreement with the European Society for Radiotherapy and Oncology (ESTRO). Moreover, the ESR has been closely collaborating with the European Federation of Radiographer Societies (EFRS) and European Federation of Organisations for Medical Physics (EFOMP), who contributed to the Programme Planning of the ECR 2022 and are represented in several ESR bodies. The ESR is a member of the European Cancer Organisation (E.C.O.) and the BioMed Alliance.
During 2021, ESOR organised 11 Foundation courses. The well-established Asklepios courses were also taught online in 2021 focussed on the topics of Head and Neck MR, Oncologic Imaging, and MR Imaging of MSK. The online format of courses was also implemented for the two international Asklepios courses. The first was a joint course hosted by the Radiological Societies of Thailand and the Philippines on the topic of Oncology of the Abdomen and Pelvis held in July, and the second was an international Asklepios course hosted by the Chinese Society of Radiology on the topic of Oncologic Imaging held in September.

Two successful AIMS (Advanced Imaging Multimodality Schools and Seminars) courses were organised online: One was held in April, hosted by the Mexican Society and Federation of Radiology and Imaging on the topic of Ultrasound. The second was hosted by the Korean Society of Radiology on Breast Cancer Screening and Clinical Trials.

Moreover, the GALEN Foundation course on Neuroradiology along with four further GALEN courses had a total number of 444 viewers from over 45 countries around the world.

In 2022, ESOR has proudly offered twelve different online Foundation courses throughout the year, which can be accessed as part of the ESR Premium Education Package.

A Visiting Professorship Programme on Neuroradiology, hosted by the Armenian Association of Radiologists, took place on June 4 in Yerevan, Armenia. A second Visiting Professorship, hosted by the Bulgarian Society of Radiology, will take place in Plovdiv, Bulgaria in November 2022. In June, ESOR held two AIMS Courses on-site in Mexico City and Oaxaca in collaboration with the Mexican Society of Radiology and the Mexican Federation of Radiology and Imaging.

The ESOR Visiting Scholarship Programme and the Exchange Programmes for Fellowships were offered again after two years of interruption due to the pandemic. Nineteen scholarships and thirty-five fellowships were awarded to successful candidates who will have a great opportunity to experience academic training throughout Europe. Furthermore, two winners received the Nicholas Gourtsoyiannis Teaching Fellowship.

A new addition to ESOR’s Fellowship Programme, the Alexander Margulis Fellowship at the Vienna Medical Department of Biomedical Imaging and Image-guided therapy, Medical University of Vienna, announced its first winner this year.
In 2021/2022 the European Board of Radiology (EBR) maintained its commitment to Research, Development and Innovation, identifying solutions that minimised the impact of the pandemic on the European Diploma in Radiology (EDIR) examination calendar, and that enabled the continuation of the accreditation of educational events and material by means of the Accreditation Council in Imaging (ACI) and of the online assessments of radiology training programmes through the European Training Assessment Programme (ETAP) 2.0.

Alternative paths for organising the exams were created that allowed the organisation of the Diploma when the pandemic started and offered services to other societies (including other medical subspecialties that were interested in organising their own exam).

The adaptability of the ACI and our accreditation partner, the EACCME (European Accreditation Council for Continuing Medical Education) allowed for physical events to be turned into virtual ones and for events to be postponed when required.

The ETAP 2.0 virtual component and its platform, launched in 2016, continue offering evaluation and quality assessment of radiology training programmes, in line with the ESR European Training Curriculum (ETC), to radiology training departments in Europe and beyond. As of 2022, the ETAP grants one unique Quality Assessment Certification to the centres successfully evaluated.

Examinations
In 2021, 20 EDIR examinations in 20 different venues with a total of 893 applications (and an average of 31 candidates each) were held. 65.7% of the candidates passed the EDIR examination.

Moreover, the EBR has also implemented new technologies, such as live proctoring, that enables candidates to take their exam from home.

Educational tools
As of 2022, candidates may apply individually or collectively, via their Head of Training, as a unit, for the EDIR Training Evaluation, a self-assessment tool aimed at reviewing the fundamentals of general radiology. Another educational project is the EDIR Preparatory Micro Courses, a series of 30-minute courses on the nine subspecialties included in the CORE section of the EDIR. Successful initiatives such as the self-assessments (now available in Short Cases and CORE formats), as well as the EDIR Simulation and Webinar, have been further improved.

EBR platforms
The Medical Credential Services platform will be available soon. With this platform, the EBR will be able to guarantee digitally certified and immutable certificates using Blockchain technology. This will allow employers to easily verify the holders' data (selection processes, etc.) and will enable holders to share their data and increase their visibility on social networks with a single click. Moreover, medical organisations will be able to host their certificates in a secure and easy way.
Education on Demand

EDUCATION ON DEMAND

The premium version of the ESR’s e-learning platform “Education on Demand” (premium-learn.myESR.org) is part of the Premium Education Package and contains more than 550 courses with more than 600 eCMEs to be obtained. Over 60 new courses were added during 2021; in addition, more than 170 published courses have undergone a thorough re-evaluation to ensure all content is accurate and up to date.

A selection of approx. 35 courses was made available on the free-to-access version of Education on Demand (learn.myESR.org).

ESR TRAINING CURRICULA

An updated version of the ESR Curriculum for Undergraduate Radiological Education was published in June 2021. This full and comprehensive update, aimed at aligning the Curriculum with the current state of undergraduate education in Europe, was coordinated by Prof. Minerva Becker (Geneva/CH), Chair of the ESR Education Committee, and Prof. Vicky Goh (London/UK), Chair of the ESR Undergraduate Education Subcommittee. The update procedures for the ESR European Training Curricula (ETC) Levels I, II and III are due to commence after ECR 2022.
UNDERGRADUATE EDUCATION

The ESR proudly announced the launch of the ESR eBook for Undergraduate Education in Radiology, a comprehensive teaching material for undergraduate students, young radiologists, teachers and tutors. This project, initiated by the former ESR Education Committee Chair, Prof. Carlo Catalano (Rome/IT) is coordinated by Prof. Minerva Becker (Geneva/CH), current ESR Education Committee Chair. The ebook consists of individual chapters covering the main sub-areas of radiology. The content for each chapter was provided by the foremost experts in each specific field and it follows the ESR Curriculum for Undergraduate Radiological Education. The first four finalised chapters (Bile Ducts Imaging, Small Bowel Imaging, Large Bowel Imaging and Musculoskeletal Imaging) were published at ECR 2022.

Under the guidance of Professor Vicky Goh (London/UK), the ESR Undergraduate Education Subcommittee created a paper Attracting the next generation of radiologists: a statement by the European Society of Radiology (ESR), published in Insights into Imaging in May, 2022. Additionally, the Subcommittee continues developing new strategies on how to best attract students to the radiology profession whilst also examining how radiology is being taught to undergraduates in Europe and what could be improved. To that effect a Europe-wide follow up survey on undergraduate teaching in radiology was developed and sent out in March 2022 to Education Committee delegates and presidents of European national radiological societies. The Subcommittee will draft a paper based on the survey results.

RADIOLOGY TRAINEE FORUM

A scientific paper Impact of COVID-19 on radiology education in Europe: a survey by the ESR Radiology Trainees Forum (RTF), developed based on a survey distributed to all ESR members in training, was published in Insights into Imaging in November, 2021. The RTF additionally focused on further increasing the involvement of young radiologists through the development of new activities and increased visibility.
The ESR Journals continued to grow in submissions and readership. *European Radiology*, under the editorship of Prof. Yves Menu (Paris/FR), received 4,505 submissions and 1,903,000 full text downloads in 2021. The Impact Factor 2021 increased to an all-time high of 7.034. *European Radiology* saw the continuation of its two fellowships: the Albert L. Baert Fellowship with the selection of Dr. Osman Öcal (Munich/DE) as the 2022 Fellow and the fourth edition of the European Radiology Review Fellowships.

*Insights into Imaging*, under the editorship of Prof. Luis Martí-Bonmatí (Valencia/ES) received 572 submissions and 2,575,800 downloads in 2021. The Impact Factor 2021 was 5.036. *Insights into Imaging* initiated a collaboration with the European Diploma in Radiology (EDiR) which consists of EDiR practice exams including questions from selected *Insights into Imaging* articles.

*European Radiology Experimental*, under the editorship of Prof. Francesco Sardanelli (Milan/IT), received 100 submissions and 236,000 downloads in 2021. The journal was ranked 4th in the Emerging Sources Citation Index and is set to receive its first Impact Factor in the summer of 2023. *European Radiology Experimental* continued to develop its thematic series with the official launch in 2021 of the series “7-T neuro MRI: from research to clinic” and the announcement of a fourth series dedicated to “AI tools for prostate MRI and PET/CT”.

**ESR JOURNALS FAMILY + ESR STATEMENTS PUBLISHED BETWEEN MARCH 2021 AND JULY 2022**
Lastly, the Editorial Team of the ESR Journals expanded with the addition of three Deputy Editors: Prof. Helmut Prosch (Vienna/AT) for European Radiology, Prof. Alberto Vieira (Porto/PT) for Insights into Imaging and Prof. Akos Varga-Szemes (Charleston/US) for European Radiology Experimental.

A total of 18 ESR papers were published between March 2021 and July 2022 (see here) including a White Paper from the ESR Board of Directors on “The role of the Radiologist in the Changing World of Healthcare”.

Eurorad continued to attract many submissions (680 cases submitted in 2021) and users (677,000 users in 2021) from an international audience. Usage on mobile devices increased to more than 50% compared to desktop usage. Prof. Olle Ekberg (Lund/SE) concluded his term of editorship and handed over to Prof. Filipe Caseiro-Alves (Coimbra/PT) in July 2022.
PROFESSIONAL ISSUES AND ADVOCACY

AUDIT AND STANDARDS

In January 2022, the ESR Audit and Standards Subcommittee published the third edition of the “Esperanto-ESR Guide to Clinical Audit in Radiology” under the leadership of Prof. David C. Howlett (Eastbourne/UK). This latest edition features an expanded section of audit templates. The European Commission (EC) tender project QuADRANT, which aims at constant improvement in quality and safety in all aspects of radiology through clinical audit, was well underway between 2020 and 2022.

Following the completion of several online workshops, the workshop report was submitted and approved by the EC. The Final Guidance & Recommendation Report was also approved and published. The Final Guidance & Recommendations of the QuADRANT project is intended to be published as part of the European Commission’s Radiation Protection Series in late 2022.

EU AFFAIRS

European Medicines Agency (EMA)

The ESR’s membership in the EMA Healthcare Professionals Working Party (HCPWP) was extended for the term 2022 to 2025, with Prof. Olivier Clément (Paris/FR) as representative and Prof. Núria Bargalló Alabart (Barcelona/ES) as alternate representative.

The ESR also participates in the EMA’s new scientific advice procedure for the diagnosis of CXCR4 receptor overexpression in cancer patients, after radiolabelling with gallium (68Ga) chloride solution, with positron emission tomography (PET). Prof. Clemens Cyran (Munich/DE), President of ESHITM, took on this task on behalf of the ESR.
EUROSAFE IMAGING

EuroSafe Imaging, the ESR’s flagship initiative to promote quality and safety in medical imaging, has published 3 papers on key topics in radiation protection since March 2021, as well as being heavily involved in the production of the European Consensus on Patient Contact Shielding.

From January to May 2022, EuroSafe Imaging held a series of 10 webinars, organised in collaboration with ESOR. This was the first time that EuroSafe Imaging has offered CME-accredited webinars. Attracting a total of almost 2,500 live viewers from 103 different countries, the success of this webinar series highlights the importance of radiation protection training worldwide. Recordings of all the webinars are available as part of the ESR’s Premium Education Package.

The EuroSafe Imaging Stars application criteria were updated over the course of 2021 to ensure the process was more closely aligned to the Euratom Basic Safety Standards. The updated EuroSafe Imaging Stars application form and rating criteria were launched in January 2022.

At ECR 2022, EuroSafe Imaging had another successful congress with a total of 9 sessions, as well as the 9th annual EuroSafe Imaging poster exhibition.

eHEALTH AND INFORMATICS

Under the leadership of Prof. Elmar Kotter (Freiburg/DE), the ESR eHealth and Informatics Subcommittee has prepared a paper on the status of AI in Europe. The Subcommittee also prepared and held the ESOR Foundation Course in Imaging Informatics in March 2022. The course was aimed at residents in their 4th and 5th year of training in radiology as well as recently board-certified radiologists interested in imaging informatics. Based on the requirements of the Level II European Training Curriculum, the goal of the course was to familiarise radiologists with all topics related to imaging topics which included the basics (i.e. technical standards: DICOM, IHE, HL7 etc) as well as the latest developments in the field (i.e. radiomics, AI, etc).

ULTRASOUND

The Ultrasound Subcommittee, under the leadership of Prof. Paul Sidhu (London/UK), is in the midst of completing various articles, which all featured in sessions at ECR 2022. In addition, the ESR Board of Directors decided to establish a diploma in advanced ultrasound.
ESR iGUIDE

ESR iGuide, the ESR’s clinical decision support system for imaging referrals utilising the ESR’s imaging referral guidelines (based on the American College of Radiology Appropriateness Criteria) was used in various projects in Europe and beyond in 2021-2022.

A pilot implementation with a before and after analysis including a silent mode phase (ESR iGuide usage without display of CDS feedback) was successfully concluded with Consorci Hospitalari de Vic in Spain. Given the positive Return on Investment (ROI) that resulted, CH Vic launched a tender procedure to procure CDS, with ESR iGuide being selected in January 2022.

In December 2021, the MIDAS study on CDS impact using ESR iGuide started in four hospitals in Germany. The second phase of ESR iGuide implementations in Croatia concluded in 2021 with a report to the Croatian authorities by the ESR iGuide partner and reseller IN2. Users from three different HMOs (Health Maintenance Organisations) in Israel have been using the ESR iGuide web portal since early 2022 in a project overseen by the Israeli Ministry of Health.

ESR iGuide has partnered with the Irish startup company xWave Technologies, who have integrated the ESR iGuide CDS in their xRefer Smart Radiology Referral Platform. The first deployment of xRefer connected three Irish hospitals for advanced imaging referring and vetting. Audits on the impact of xRefer including ESR iGuide have shown a reduction of 99.6% in the time taken to vet referrals and, importantly, a reduction of more than 60% in duplicate referrals for head and neck cancer imaging.

The ESR also supported an IAEA technical cooperation project with free use of the ESR iGuide web portal in several French- and English-speaking African countries.

ESR iGuide is also used in the ESR-led European Commission tender project EU JUST CT, lasting from April 2021 until March 2024. The main part of the project is an audit of CT justification in European countries using randomly selected CT referrals; auditors use the ESR iGuide web portal to assess referrals against the ESR’s imaging referral guidelines.

The ESR iGuide web portal was also used in the national CT and MRI audit in Sweden to assess appropriateness according to ESR guidance.
8. RESEARCH

EUROPEAN IMAGING BIOMARKERS ALLIANCE (EIBALL)

During 2021/2022, under the leadership of its Chair, Prof Aad van der Lugt (Rotterdam/NL), the European Imaging Biomarkers Alliance (EIBALL) updated its roadmap for the next two years, focusing on education and on metrology and repeatability/reproducibility.

The EIBALL Subcommittee has also worked hard to continue the expansion of the EIBALL Biomarkers Inventory. It has also worked with contributing subspecialties (via the ESPR, ESUR, ESGAR, EUSOBI, and QIBA) to cross-promote the inventory to increase its exposure.

EIBALL held two sessions at the ECR 2022, one on ‘Imaging biomarkers: should we pay attention?’, and the other on ‘Imaging biomarkers: lessons learned by/from QIBA and EIBALL’, both of which are available via ESR Connect.

The members of the EIBALL Subcommittee, led by Prof Nandita deSouza (London/UK), have drafted an article on ‘Standardised lesion segmentation for imaging biomarker quantitation: a consensus recommendation from ESR and EORTC’, which has been published in Insights into Imaging.

EUROPEAN INSTITUTE FOR BIOMEDICAL IMAGING RESEARCH (EIBIR)

2021/2022 has been a very busy and successful time for the European Institute for Biomedical Imaging Research (EIBIR) with five European research projects in full swing on topics ranging from developing cancer imaging platforms for enhanced AI in cancer management to medical radiation protection. Another five projects successfully concluded with new pathways for cancer diagnosis and tangible impacts on patient care and quality and safety. In these projects, EIBIR has either served as coordinator or led project management and dissemination activities.

2022 saw the launch of the new EU funding programme Horizon Europe. Under this new programme, EIBIR has so far successfully secured over €33 million. In total, since its foundation in 2006, EIBIR has supported researchers to secure more than €150 million in European funding. Benefitting from EIBIR’s expert support, six new projects were awarded and will kick off between October 2022 and January 2023. The new projects range from efforts to pave the way towards a European infrastructure for AI for health imaging to advances in cancer diagnosis and treatment through novel imaging tools and AI approaches.
Moreover, the second call for proposals for the “ESR Research Seed Grant” was launched in 2022. The programme, which aims to stimulate and fund innovative one-year research projects, was kindly supported by GE Healthcare. Ten projects in the field of AI and Interventional Oncologic Radiology, the funding priorities in 2022, were awarded at ECR 2022.

EIBIR, together with ESR experts, also finalised the Imaging Biobank Catalogue, a catalogue for medical imaging metadata, with information that can already be used in research projects on medical data. The catalogue will be permanently updated with new datasets and non-imaging data is being considered for a future upgrade.

At ECR 2022, EIBIR was happy to welcome back its members as well as past and future collaborators to the EIBIR Lounge, and to organise several joint meetings and sessions, where attendees seized the opportunity to learn about EIBIR’s successful research projects, discuss with experts about AI in medical imaging, image collections, safety in radiology and new directions in pre-clinical imaging, and explore how to succeed in the European funding landscape.
III.

ESR ORGANISATION
ESR EXECUTIVE COUNCIL
MARCH 2021 - JULY 2022

BOARD OF DIRECTORS
1. Chairman of the Board of Directors (BoD) Michael Fuchsänger, Graz/AT
2. President Regina Beets-Tan, Amsterdam/NL
3. 1st Vice-President Adrian P. Brady, Cork/IE
4. 2nd Vice-President Carlo Catalano, Rome/IT
5. Past-President Boris Brkljačić, Zagreb/HR

COMMITTEE CHAIRS
6. Communication and External Affairs Committee Nikoleta Traykova, Plovdiv/BG
7. ECR 2022 Programme Planning Committee Regina Beets-Tan, Amsterdam/NL
8. ECR 2023 Programme Planning Committee Adrian Brady, Cork/IE
9. Education Committee Minerva Becker, Geneva/CH
10. Finance and Internal Affairs Committee Maja Marolt-Mušič, Ljubljana/SL
11. National Societies Committee Andrea Rockall, London/UK
12. Publications Committee Marion Smits, Rotterdam/NL
13. Quality, Safety and Standards Committee Núria Bargalló Alabart, Barcelona/ES
14. Research Committee Marc Dewey, Berlin/DE
15. Subspecialties and Allied Sciences Committee Apostolos Karantanas, Heraklion/GR
16. ESOR Scientific/Educational Director Valérie Vilgrain, Clichy/FR
17. Executive Director Peter Baierl, Vienna/AT
### EUROPEAN BOARD OF RADIOLOGY

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<td>Chairman of the EBR Shareholders’ Board</td>
<td>Michael Fuchsjäger</td>
<td>Graz/AT</td>
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<td>EDIR (European Diploma in Radiology) Scientific Director</td>
<td>Laura Oleaga</td>
<td>Barcelona/ES</td>
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<td>ACI (Accreditation Council in Imaging) Scientific Director</td>
<td>Paolo Ricci</td>
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<td>ETAP (European Training Assessment Programme) Scientific Director</td>
<td>Hannu Aronen</td>
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### EUROPEAN INSTITUTE FOR BIOMEDICAL IMAGING RESEARCH (EIBIR)

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<td>Zagreb/HR</td>
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<td>Gabriel P. Krestin</td>
<td>Rotterdam/NL</td>
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### ESR PUBLICATIONS

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<td>Editor-in-Chief of European Radiology</td>
<td>Yves Menu</td>
<td>Paris/FR</td>
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<td>25</td>
<td>Editor-in-Chief of Insights into Imaging</td>
<td>Luis Martí-Bonmatí</td>
<td>Valencia/ES</td>
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<td>Editor-in-Chief of European Radiology Experimental</td>
<td>Francesco Sardanelli</td>
<td>Milan/IT</td>
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<td>Editor-in-Chief of EPOS</td>
<td>Ioana G. Lupescu</td>
<td>Bucharest/RO</td>
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<td>Editor-in-Chief of EURORAD</td>
<td>Olle Ekberg</td>
<td>Malmö/SE</td>
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### SUBCOMMITTEES (CHAIRS)

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<th>No.</th>
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<tr>
<td>29</td>
<td>Audit and Standards</td>
<td>David Howlett</td>
<td>Eastbourne/UK</td>
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<tr>
<td>30</td>
<td>eHealth and Informatics</td>
<td>Elmar Kotter</td>
<td>Freiburg/DE</td>
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<td>31</td>
<td>eLearning</td>
<td>Sue Barter</td>
<td>Cambridge/UK</td>
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<td>32</td>
<td>European Imaging Biomarkers Alliance</td>
<td>Aad van der Lugt</td>
<td>Rotterdam/NL</td>
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<td>Radiation Protection</td>
<td>Franz Kainberger</td>
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<td>EuroSafe Imaging Steering Committee</td>
<td>Guy Frija</td>
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<td>Radiology Trainees Forum</td>
<td>Martin Reim</td>
<td>Tartu/EE</td>
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<td>Referral Guidelines</td>
<td>Myriam Hunink</td>
<td>Rotterdam/NL</td>
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<td>Ultrasound</td>
<td>Paul Sidhu</td>
<td>London/UK</td>
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<td>Undergraduate Education</td>
<td>Vicky Goh</td>
<td>London/UK</td>
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<td>39</td>
<td>Value-Based Radiology</td>
<td>Adrian Brady</td>
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### WORKING GROUPS (CHAIRS)

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<tr>
<td>40</td>
<td>Patient Advisory Group</td>
<td>Caroline Justich</td>
<td>Graz/AT</td>
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<tr>
<td>41</td>
<td>Patient Advisory Group Vice-Chair</td>
<td>Nikoleta Traykova</td>
<td>Plovdiv/BG</td>
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ESR INSTITUTIONAL MEMBER SOCIETIES

ESR NATIONAL SOCIETIES

ALBANIA
ALBANIAN ASSOCIATION OF RADIOLOGY
ARMENIA
ARMENIAN ASSOCIATION OF RADIOLOGISTS
AUSTRIA
AUSTRIAN ROENTGEN SOCIETY
AZERBAIJAN
AZERBAIJAN SOCIETY OF RADIOLOGISTS
BELARUS
BELARUSIAN SOCIETY OF RADIOLOGISTS
BELGIUM
BELGIAN SOCIETY OF RADIOLOGY
BOSNIA AND HERZEGOVINA
ASSOCIATION OF RADIOLOGY OF BOSNIA & HERZEGOVINA
BULGARIA
BULGARIAN ASSOCIATION OF RADIOLOGY
CROATIA
CROATIAN SOCIETY OF RADIOLOGY
CYPRUS
CYPRUS RADIOLOGICAL SOCIETY
CZECH REPUBLIC
CZECH RADIOLOGICAL SOCIETY
DENMARK
DANISH SOCIETY OF RADIOLOGY
ESTONIA
ESTONIAN SOCIETY OF RADIOLOGY
FINLAND
RADIOLOGICAL SOCIETY OF FINLAND
FRANCE
FRENCH SOCIETY OF RADIOLOGY
GEORGIA
GEORGIAN ASSOCIATION OF RADIOLOGISTS
GERMANY
GERMAN RADIOLOGICAL SOCIETY
GREECE
HELLENIC RADIOLOGICAL SOCIETY
HUNGARY
HUNGARIAN SOCIETY OF RADIOLOGISTS
ICELAND
RADIOLOGICAL SOCIETY OF ICELAND
IRELAND
FACULTY OF RADIOLOGISTS, ROYAL COLLEGE OF SURGEONS IN IRELAND
ISRAEL
ISRAEL RADIOLICAL ASSOCIATION
ITALY
ITALIAN SOCIETY OF RADIOLOGY
KAZAKHSTAN
RADIOLOGICAL SOCIETY OF KAZAKHSTAN
KOSOVO
RADIOLOGISTS ASSOCIATION OF KOSOVO
KYRGYZSTAN
KYRGYZSTAN RADIOLOGICAL SOCIETY
LATVIA
LATVIAN ASSOCIATION OF RADIOLOGISTS
LITHUANIA
LITHUANIAN RADIOLOGISTS’ ASSOCIATION
LUXEMBOURG
LUXEMBOURG SOCIETY OF RADIOLOGY
MALTA
MALTESE ASSOCIATION OF RADIOLOGISTS AND NUCLEAR MEDICINE PHYSICIANS
MOLDOVA
MOLDAVIAN SOCIETY OF RADIOLOGY AND MEDICAL IMAGING
MONTENEGRO
RADIOLOGICAL ASSOCIATION OF MONTENEGRO
NETHERLANDS, THE
RADIOLOGICAL SOCIETY OF THE NETHERLANDS
NORTH MACEDONIA | Macedonian Association of Radiologists
---|---
NORWAY | Norwegian Society of Radiology
POLAND | Polish Medical Society of Radiology
PORTUGAL | Portuguese Society of Radiology and Nuclear Medicine
ROMANIA | Romanian Society of Radiology and Medical Imaging
RUSSIA | Russian Society of Radiology
SERBIA | Radiological Society of Serbia
SLOVAKIA | Slovak Association of Radiology
SLOVENIA | Slovenian Association of Radiology
SPAIN | Spanish Society of Medical Radiology
SWEDEN | Swedish Society of Medical Radiology
SWITZERLAND | Swiss Society of Radiology
TURKEY | Turkish Society of Radiology
UKRAINE | Association of Radiologists of the Ukraine
UNITED KINGDOM | The Royal College of Radiologists
UZBEKISTAN | Uzbekistan Radiology Society

**ESR SUBSPECIALTIES AND ALLIED SCIENCES SOCIETIES**

CIRSE | Cardiovascular and Interventional Radiological Society of Europe
ESCR | European Society of Cardiovascular Radiology
ESCR | European Society for Hybrid Medical Imaging
ESER | European Society of Emergency Radiology
ESGAR | European Society of Gastrointestinal and Abdominal Radiology
ESHR | European Society of Head and Neck Radiology
ESMRMB | European Society for Magnetic Resonance in Medicine and Biology
ESNR | European Society of Neuroradiology
ESOI | European Society of Oncologic Imaging
ESPR | European Society of Paediatric Radiology
ESRR | European Society of Musculo-Skeletal Radiology
ESTI | European Society of Thoracic Imaging
ESUR | European Society of Urogenital Radiology
EUROB | European Society of Breast Imaging
EUSOMII | European Society of Medical Imaging Informatics

**ESR ASSOCIATE INSTITUTIONAL MEMBER SOCIETIES**

AFGHANISTAN | Afghan Society of Radiology
ALGERIA | Algerian Society of Radiology and Medical Imaging
ARGENTINA | Argentinian Society of Radiology
AUSTRALIA & NEW ZEALAND | The Royal Australian and New Zealand College of Radiologists
BOLIVIA | Bolivian Society of Radiology
BRAZIL | Brazilian College of Radiology
CHILE | Chilean Society of Radiology
CHINA | Chinese Society of Radiology
COLOMBIA | Colombian Association of Radiology
COSTA RICA | Costa Rican Association of Radiology
CUBA | Cuban Society of Imaging
<table>
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ESR SUPPORTING MEMBERS 2021/2022

PLATINUM SUPPORTING MEMBERS

- Bayer
- Bracco
- Canon Medical
- Esaote
- Fujifilm
- GE Healthcare
- Guerbet
- Hologic
- Mindray

SILVER SUPPORTING MEMBERS

- Philips
- Samsung
- Siemens Healthineers
- Rayence
- Varex Imaging
- Vieworks