

Molecular Med Tri Conference 2014

Richard Polin, Steven H. Abman, David H. Rowitch, William Benitz

Handbook of Nuclear Medicine and Molecular Imaging for Physicists Michael Ljungberg, 2020-12-16 This state-of-the-art handbook, the first in a series that provides medical physicists with a comprehensive overview into the field of nuclear medicine, is dedicated to instrumentation and imaging procedures in nuclear medicine. It provides a thorough treatment on the cutting-edge technologies being used within the field, in addition to touching upon the history of their use, their development, and looking ahead to future prospects. This text will be an invaluable resource for libraries, institutions, and clinical and academic medical physicists searching for a complete account of what defines nuclear medicine. The most comprehensive reference available providing a state-of-the-art overview of the field of nuclear medicine Edited by a leader in the field, with contributions from a team of experienced medical physicists Includes the latest practical research in the field, in addition to explaining fundamental theory and the field's history

Digital Pathology Keith J. Kaplan, Luigi K.F. Rao, 2015-10-23 Digital Pathology: Historical Perspectives, Current Concepts & Future Applications provides the authoritative text in the digital pathology domain by combining the established expertise of leaders in this diverse arena with practical applications of this transformative platform while harnessing a content rich, interactive format. In detailing a cohesive narrative from a broad, global perspective the lessons learned from the past, the obstacles to digital pathology adoption that have been overcome and the challenges that remain for full realization of the potential that computational analysis affords, this text provides readers with the latest in where the field is heading as it seeks to unlock the potential of digital pathology by leveraging cutting edge technologies and innovative tools. Digital Pathology: Historical Perspectives, Current Concepts & Future Applications will be of great value to Pathologists including Translational Researchers and Informaticists, Pathology Trainees including Residents and Informatics Fellows, Healthcare CMOs and CIOs, Bioimaging Engineers and Computer Vision Scientists, as well as Laboratory Information Technologists.

Handbook of Large-Scale Distributed Computing in Smart Healthcare Samee U. Khan, Albert Y. Zomaya, Assad Abbas, 2017-08-07 This volume offers readers various perspectives and visions for cutting-edge research in ubiquitous healthcare. The topics emphasize large-scale architectures and high performance solutions for smart healthcare, healthcare monitoring using large-scale computing techniques, Internet of Things (IoT) and big data analytics for healthcare, Fog Computing, mobile health, large-scale medical data mining, advanced machine learning methods for mining multidimensional sensor data, smart homes, and resource allocation methods for the BANs. The book contains high quality chapters contributed by leading international researchers working in domains, such as e-Health, pervasive and context-aware computing, cloud, grid, cluster, and big-data computing. We are optimistic that the topics included in this book will provide a multidisciplinary research platform to the researchers, practitioners, and students from biomedical engineering, health informatics, computer science, and computer engineering.

Molecular Imaging Brian D. Ross, Sanjiv S. Gambhir, 2021-08-03 The detection and measurement of the dynamic regulation and interactions of cells and proteins within the living cell are critical to the understanding of cellular biology and pathophysiology. The multidisciplinary field of molecular imaging of living subjects continues to expand with dramatic advances in chemistry, molecular biology, therapeutics, engineering, medical physics and biomedical applications. *Molecular Imaging: Principles and Practice, Volumes 1 and 2, Second Edition* provides the first point of entry for physicians, scientists, and practitioners. This authoritative reference book provides a comprehensible overview along with in-depth presentation of molecular imaging concepts, technologies and applications making it the foremost source for both established and new investigators, collaborators, students and anyone interested in this exciting and important field. The most authoritative and comprehensive resource available in the molecular-imaging field, written by over 170 of the leading scientists from around the world who have evaluated and summarized the most important methods, principles, technologies and data Concepts illustrated with over 600 color figures and molecular-imaging examples Chapters/topics include, artificial intelligence and machine learning, use of online social media, virtual and augmented reality, optogenetics, FDA regulatory process of imaging agents and devices, emerging instrumentation, MR elastography, MR fingerprinting, operational radiation safety, multiscale imaging and uses in drug development This edition is packed with innovative science, including theranostics, light sheet fluorescence microscopy, (LSFM), mass spectrometry imaging, combining in vitro and in vivo diagnostics, Raman imaging, along with molecular and functional imaging applications Valuable applications of molecular imaging in pediatrics, oncology, autoimmune, cardiovascular and CNS diseases are also presented This resource helps integrate diverse multidisciplinary concepts associated with molecular imaging to provide readers with an improved understanding of current and future applications

Medicine Sciences and Bioengineering Mings Wang, 2015-05-06 This proceedings volume contains selected papers presented at the 2014 International Conference on Medicine Sciences and Bioengineering (ICMSB 2014), held August 16-17, 2014 in Kunming, Yunnan, China. ICMSB2014 was aimed at researchers, engineers, industrial professionals and academics, who were broadly welcomed to present their latest research res

ICCAP 2021 A Mohan, D. S. Vijayan, 2021-12-22 This proceeding constitutes the thoroughly refereed proceedings of the 1st International Conference on Combinatorial and Optimization, ICCAP 2021, December 7-8, 2021. This event was organized by the group of Professors in Chennai. The Conference aims to provide the opportunities for informal conversations, have proven to be of great interest to other scientists and analysts employing these mathematical sciences in their professional work in business, industry, and government. The Conference continues to promote better understanding of the roles of modern applied mathematics, combinatorics, and computer science to acquaint the investigator in each of these areas with the various techniques and algorithms which are available to assist in his or her research. We selected 257 papers were carefully reviewed and selected from 741 submissions. The presentations covered multiple research fields like Computer Science, Artificial Intelligence, internet technology, smart health care etc., brought the discussion on how to shape optimization methods around human and

social needs.

Systems Medicine, 2020-08-24 Technological advances in generated molecular and cell biological data are transforming biomedical research. Sequencing, multi-omics and imaging technologies are likely to have deep impact on the future of medical practice. In parallel to technological developments, methodologies to gather, integrate, visualize and analyze heterogeneous and large-scale data sets are needed to develop new approaches for diagnosis, prognosis and therapy. *Systems Medicine: Integrative, Qualitative and Computational Approaches* is an innovative, interdisciplinary and integrative approach that extends the concept of systems biology and the unprecedented insights that computational methods and mathematical modeling offer of the interactions and network behavior of complex biological systems, to novel clinically relevant applications for the design of more successful prognostic, diagnostic and therapeutic approaches. This 3 volume work features 132 entries from renowned experts in the fields and covers the tools, methods, algorithms and data analysis workflows used for integrating and analyzing multi-dimensional data routinely generated in clinical settings with the aim of providing medical practitioners with robust clinical decision support systems. Importantly the work delves into the applications of systems medicine in areas such as tumor systems biology, metabolic and cardiovascular diseases as well as immunology and infectious diseases amongst others. This is a fundamental resource for biomedical students and researchers as well as medical practitioners who need to need to adopt advances in computational tools and methods into the clinical practice. Encyclopedic coverage: 'one-stop' resource for access to information written by world-leading scholars in the field of Systems Biology and Systems Medicine, with easy cross-referencing of related articles to promote understanding and further research Authoritative: the whole work is authored and edited by recognized experts in the field, with a range of different expertise, ensuring a high quality standard Digitally innovative: Hyperlinked references and further readings, cross-references and diagrams/images will allow readers to easily navigate a wealth of information

Exploring Cancer Metabolic Reprogramming through Molecular Imaging Franca Podo, Zaver M. Bhujwalla, Egidio Iorio, 2017-07-27 The inclusion of oncogene-driven reprogramming of energy metabolism within the list of cancer hallmarks (Hanahan and Weinberg, Cell 2000, 2011) has provided major impetus to further investigate the existence of a much wider metabolic rewiring in cancer cells, which not only includes deregulated cellular bioenergetics, but also encompasses multiple links with a more comprehensive network of altered biochemical pathways. This network is currently held responsible for redirecting carbon and phosphorus fluxes through the biosynthesis of nucleotides, amino acids, lipids and phospholipids and for the production of second messengers essential to cancer cells growth, survival and invasiveness in the hostile tumor environment. The capability to develop such a concerted rewiring of biochemical pathways is a versatile tool adopted by cancer cells to counteract the host defense and eventually resist the attack of anticancer treatments. Integrated efforts elucidating key mechanisms underlying this complex cancer metabolic reprogramming have led to the identification of new signatures of malignancy that are providing a strong foundation for improving cancer diagnosis and monitoring tumor response to

therapy using appropriate molecular imaging approaches. In particular, the recent evolution of positron emission tomography (PET), magnetic resonance spectroscopy (MRS), spectroscopic imaging (MRSI), functional MR imaging (fMRI) and optical imaging technologies, combined with complementary cellular imaging approaches, have created new ways to explore and monitor the effects of metabolic reprogramming in cancer at clinical and preclinical levels. Thus, the progress of high-tech engineering and molecular imaging technologies, combined with new generation genomic, proteomic and phosphoproteomic methods, can significantly improve the clinical effectiveness of image-based interventions in cancer and provide novel insights to design and validate new targeted therapies. The Frontiers in Oncology Research Topic “Exploring Cancer Metabolic Reprogramming Through Molecular Imaging” focusses on current achievements, challenges and needs in the application of molecular imaging methods to explore cancer metabolic reprogramming, and evaluate its potential impact on clinical decisions and patient outcome. A series of reviews and perspective articles, along with original research contributions on humans and on preclinical models have been concertedly included in the Topic to build an open forum on perspectives, present needs and future challenges of this cutting-edge research area.

Advances in Biomolecular Medicine Robert Hofstra, Noriyuki Koibuchi, Suthat Fucharoen, 2017-03-27 *Advances in Biomolecular Medicine* contains the selected papers presented at the 4th BIBMC (Bandung International Biomolecular Medicine Conference) and the 2nd ACMM (ASEAN Congress on Medical Biotechnology and Molecular Biosciences), hosted by the Faculty of Medicine, Padjadjaran University, Bandung, West Java, Indonesia, 4-6 October 2016. In line with the United Nations Sustainable Development Goals, the theme of the joint scientific meeting is ‘Medical innovation & translational research to ensure healthy lives & promote well-being for all at all ages’. Authors include scientists, academics, practitioners, regulators and other key individuals with expertise and experience relevant to biomolecular medicine, medical biotechnology and molecular biosciences. Topics of the papers cover various aspects of infection, oncology, tuberculosis, genetics, thalassemia, nutrition, cardiovascular, wound healing and endocrinology. This book is essential reading for academics, scientist, practitioners and regulators involved in the area of biomolecular medicine, medical biotechnology and molecular biosciences.

Combinational Therapy in Triple Negative Breast Cancer Manzoor Ahmad Mir, 2022-04-28 *Combinational Therapy in Triple Negative Breast Cancer* discusses TNBC at the molecular level from a holistic approach, focusing on combinational strategies targeting various pathways involved in this specific cancer type. Using a monotherapy for the treatment of cancer, especially high-grade tumors like TNBC, is mostly worthless due to the inherent genetic instability of tumor cells to develop intrinsic and acquired resistance. Combination therapy presents more, or at least the same, effectiveness with lower doses of every single agent and decreases the likelihood of chemoresistance, making it essential to understand for multiple therapy options. The book is a valuable resource for cancer researchers, oncologists, graduate students and members of the biomedical field who are interested in the potential of combinational therapies to treat triple negative breast cancer. Presents up-to-date and cutting-edge knowledge of Triple negative breast cancer (TNBC) biology, clinical aspects and treatment options Discusses

novel targets and pathways involved in TNBC Provides insights and approaches for future research on TNBC

Pharmacoresistance in Epilepsy Luisa L. Rocha,Alberto Lazarowski,Esper A. Cavalheiro,2023-08-29 This new edition of Pharmacoresistance in Epilepsy addresses all issues relating to drug-resistance in epilepsy, including studies in patients as well in experimental models and presents the basis for an understanding of recent developments in the pathogenesis and treatment of this condition. Important issues associated with drug-resistant epilepsy are reviewed and updated, such as abnormalities in inhibitory mechanisms, neurotoxicity and changes the immune system associated with this disorder, and the development of drug-resistance as consequence of chronic exposure to antiseizure-medications. Considering that a major obstacle is that epilepsy associated with drug-resistance cannot be controlled with the traditional antiseizure medications, specific chapters describe therapeutic strategies to prevent or reduce the progression of the disease with complementary medical therapies, such as transcranial focal stimulation to promote neuroprotection. Pharmacoresistance in Epilepsy is a valuable resource for anyone working in the field, whether studying epilepsy in the lab or treating it in an office.

Pharmacological and Molecular Perspectives on Diabetes Madhukar Saxena,2022-04-19 Pharmacological and Molecular Perspectives on Diabetes is a compilation of reviews on clinical and scientific aspects of diabetes mellitus. It presents 11 contributions by eminent scholars that give the reader rational pharmacological and genetic perspectives of the disease and its treatment. The reviews approach diabetes from different angles, and highlight research that has been done to understand some questions about the molecular biology of diabetes in experimental settings. Topics of clinical significance such as the use of different hypoglycemic agents, and diabetic complications in clinical settings are also covered. Topics included in this book are: · Epigenetic alterations and type 2 diabetes mellitus · Responses to nutritional chromium supplements for type 2 diabetes mellitus · Endocrine role of osteocalcin in homeostatic regulation of glucose metabolism · Effect of diabetes on memory · Osteoarthritis in relation to type 2 diabetes mellitus: prevalence, etiology, symptoms and molecular mechanism · Infection of novel coronavirus in patients with diabetes mellitus · Role of an anti-inflammatory agent in the management of type 2 diabetes mellitus · Role of antidiabetic agents which helps regulates TCF7L2 variations in type 2 diabetes mellitus · Relationship between type 2 diabetes mellitus, PCOD and neurological disorders: role of antidiabetic drugs · Comparison of different types of insulin available for type 1 diabetes treatment · Circadian rhythm disruption: special reference to type 2 diabetes mellitus · Type 2 diabetes mellitus and its complications: pharmacogenetics based correlations and circulating microRNA as biomarkers Pharmacological and Molecular Perspectives on Diabetes should prove to be of interest to all pharmaceutical and molecular biology scientists who are involved in research in anti-diabetic drug design and discovery, and practicing endocrinologists who wish to keep abreast of recent developments in the field.

Sensors and Microsystems Girolamo Di Francia,Corrado Di Natale,2022-06-28 This book showcases the state of the art in the field of sensors and microsystems, revealing the impressive potential of novel methodologies and technologies. It covers a broad range of aspects, including: bio-, physical and chemical sensors, actuators,

micro- and nano-structured materials, mechanisms of interaction and signal transduction, polymers and biomaterials, sensor electronics and instrumentation, analytical microsystems, recognition systems and signal analysis and sensor networks as well as manufacturing technologies, environmental, food, energy and biomedical applications. The contents reflect the outcomes of the activities of AISEM (Italian Association of Sensors and Microsystems) in 2021. Co-Edited by B. Andò, F. Baldini, G. Betta, D. Compagnone, S. Conoci, E. Comini, V. Ferrari, E. La Salandra, L. Lorenzelli, A.G. Mignani, G. Marrazza, G. Neri, P. Siciliano.

Breast Cancer: Uses and Opportunities for Molecular Imaging, An Issue of PET Clinics, E-Book Elizabeth McDonald, Gary A. Ulaner, 2018-07-13 This issue of PET Clinics focuses on Breast Cancer: Uses and Opportunities for Molecular Imaging, and is edited by Drs. Elizabeth McDonald and Gary A. Ulaner. Articles will include: Overview of Breast Cancer Screening and Diagnosis; Nuclear Imaging for Osseous Staging; Therapeutic Role of FDG in Breast Cancer: Treatment Response; Clinical Potential of HER2 Receptor Imaging; Novel Targets for Imaging Breast Cancer: Amino Acid Imaging with Fluciclovine; Overview of Breast Cancer Therapy; Molecular Classification of Breast Cancer; Clinical Potential of Estrogen and Progesterone Receptor Imaging; Diagnostic Role of FDG in Breast Cancer: Discovery to Current; Imaging Breast Cancer Proliferation; Dedicated Breast Gamma Camera Imaging and Breast Positron Emission Tomography: Current Status and Future Directions; and more!

Fetal and Neonatal Physiology E-Book Richard Polin, Steven H. Abman, David H. Rowitch, William Benitz, 2016-05-11 Fetal & Neonatal Physiology provides neonatologist fellows and physicians with the essential information they need to effectively diagnose, treat, and manage sick and premature infants. Fully comprehensive, this resource continues to serve as an excellent reference tool, focusing on the basic science needed for exam preparation and the key information required for full-time practice. The 5th edition is the most substantially updated and revised edition ever. In the 5 years since the last edition published, there have been thousands of publications on various aspects of development of health and disease; Fetal and Neonatal Physiology synthesizes this knowledge into definitive guidance for today's busy practitioner. Offers definitive guidance on how to effectively manage the many health problems seen in newborn and premature infants. Chapters devoted to clinical correlation help explain the implications of fetal and neonatal physiology. Allows you to apply the latest insights on genetic therapy, intrauterine infections, brain protection and neuroimaging, and much more. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, images, and references from the book on a variety of devices. Features a fantastic new 4-color design with 1,000 illustrations, 170+ chapters, and over 350 contributors. 16 new chapters cover such hot topics as Epigenetics; Placental Function in Intrauterine Growth Restriction; Regulation of Pulmonary Circulation; The Developing Microbiome of the Fetus and Newborn; Hereditary Contribution to Neonatal Hyperbilirubinemia; Mechanistic Aspects of Phototherapy for Neonatal Hyperbilirubinemia; Cerebellar Development; Pathophysiology of Neonatal Sepsis; Pathophysiology of Persistent Pulmonary Hypertension of the Newborn; Pathophysiology of Meconium Aspiration Syndrome; Pathophysiology of Ventilator Dependent Infants; Pathophysiology of Hypoxic-Ischemic Brain Injury;

Pathophysiology of Neonatal White Matter Injury; Pathophysiology of Meningitis; Pathophysiology of Preeclampsia; and Pathophysiology of Chorioamnionitis. New Pathophysiology of Neonatal Diseases section highlights every process associated with a disease or injury, all in one place. In-depth information, combined with end-of-chapter summaries, enables deep or quick use of the text.

Energy Medicine James L. Oschman, 2015-10-06 See how energy therapies can normalize physiology and restore your patients' health! Energy Medicine: The Scientific Basis, 2nd Edition provides a deeper understanding of energy and energy flow in the human body. Using well-established scientific research, this book documents the presence of energy fields, discerns how those fields are generated, and determines how they are altered by disease, disorder, or injury. It then describes how therapeutic applications can restore natural energy flows within the body. Written by recognized energy medicine expert Dr. James Oschman - who is also a physiologist, cellular biologist, and biophysicist - this resource shows how the science of energetics may be used in healing diseases that conventional medicine has difficulty treating. Easy-to-understand coverage simplifies the theory of energy medicine and the science behind it, providing detailed, coherent explanations for a complex subject. Well-established scientific research shows why and how energy medicine works. Multi-disciplinary approach covers energy medicine as it applies to various healthcare disciplines, from acupuncture to osteopathy to therapeutic touch and energy psychology. NEW! Additional views of the Living Matrix in this edition increase the number to 10 views, more accurately showing physiological and regulatory processes - the web of factors that determine our health. NEW Basic Physics and Biophysics chapters introduce and simplify the concepts of electricity, magnetism, electromagnetism, and resonance. NEW chapters on medical devices and inflammation bring to light the connection between energy medicine and inflammation, showing effective energy techniques such as devices that use energy fields and hands-on techniques in combating disease. UPDATED research on acupuncture and related therapies showcases exciting new work from prestigious laboratories in the U.S. and abroad on the anatomy and biophysics of the acupuncture meridian system. NEW Sciences of the Subconscious and Intuition and The Energetic Blueprint of Life and Health chapters cover the important topics of energy psychology and epigenetics. NEW Regulatory Energetics chapter includes topics such as communication, control, regulation, coordination, integration, feedback, and energy flow - all crucial to understanding living systems and the healing process. NEW Energy Medicine in Daily Life chapter includes examples of simple energy medicine tools that can sustain health, happiness and longevity, and why and how they are so effective. NEW evidence from quantum physics describes the latest implications of quantum principles and quantum mechanics as related to devices and therapies in energy medicine. NEW content on the mechanisms involved in intuition and the unconscious mind emphasizes the emerging topics of trauma energetics and energy psychology, along with the importance of intuition in therapeutics. NEW chapters on the history of developments in electrobiology and electrophysiology discuss neuroscience applications in diagnosis and therapeutics, linking the new inflammation model of disease with energy medicine. NEW historical content covers the individuals who have created the field of energy medicine, with descriptions of their

techniques and references to their literature. NEW Appendix I summarizes the regulations governing devices used in the practice of energy medicine. NEW Appendix II lists legal, ethical, and other CAM resources available to energy practitioners.

Cellular, Molecular, Physiological, and Behavioral Aspects of Traumatic Brain Injury Rajkumar Rajendram, Victor R Preedy, Colin R Martin, 2022-05-10 Traumatic brain injury has complex etiology and may arise as a consequence of physical abuse, violence, war, vehicle collisions, working in the construction industry, and sports. Cellular, Molecular, Physiological, and Behavioral Aspects of Traumatic Brain Injury will improve readers' understanding of the detailed processes arising from traumatic brain injury. Featuring chapters on neuroinflammation, metabolism, and psychology, this volume discusses the impact of these injuries on neurological and body systems to better understand underlying pathways. This book will be relevant for neuroscientists, neurologists, clinicians, and anyone working to better understand traumatic brain injury. Summarizes the neuroscience of traumatic brain injury, including cellular and molecular biology Contains chapter abstracts, key facts, dictionary, and summary points to aid in understanding Features chapters on signaling and hormonal events Includes plasticity and gene expression Examines health and stress behaviors after traumatic brain injury

Pediatric Critical Care E-Book Bradley P. Fuhrman, Jerry J. Zimmerman, 2016-11-29 Still the #1 resource for today's pediatric ICU teams, Pediatric Critical Care, 5th Edition covers the entire field, from basic science to cutting-edge clinical applications. Drs. Bradley P. Fuhrman and Jerry J. Zimmerman, accompanied by an expert team of editors and contributors from around the world, bring you today's best information on the current and future landscape of pediatric critical care so you can consistently deliver optimum care to your young patients. Boasts highly readable, concise chapters with hundreds of useful photos, diagrams, algorithms, and clinical pearls. Clear, logical, organ-system approach allows you to focus on the development, function, and treatment of a wide range of disease entities. Includes new content on the expanding use of ultrasound at the bedside and the increase in nursing responsibilities in the PICU. Eighteen new chapters cover topics such as delirium, metabolism, endocrinology, nutrition, nursing, and much more. Features expanded and updated information on critical communication, professionalism, long-term outcomes, palliative care, ultrasonography, PCCM in resource-limited settings, ventilator-induced lung injury, non-invasive ventilation, updated CNS pathophysiology, the 'Erythron', and immunity and infection.

Energy Medicine - E-Book James L. Oschman, 2015-09-04 See how energy therapies can normalize physiology and restore your patients' health! Energy Medicine: The Scientific Basis, 2nd Edition provides a deeper understanding of energy and energy flow in the human body. Using well-established scientific research, this book documents the presence of energy fields, discerns how those fields are generated, and determines how they are altered by disease, disorder, or injury. It then describes how therapeutic applications can restore natural energy flows within the body. Written by recognized energy medicine expert Dr. James Oschman – who is also a physiologist, cellular biologist, and biophysicist – this resource shows how the science of energetics may be used in healing

diseases that conventional medicine has difficulty treating. Easy-to-understand coverage simplifies the theory of energy medicine and the science behind it, providing detailed, coherent explanations for a complex subject. Well-established scientific research shows why and how energy medicine works. Multi-disciplinary approach covers energy medicine as it applies to various healthcare disciplines, from acupuncture to osteopathy to therapeutic touch and energy psychology.

PET/MRI in Oncology Andrei Iagaru, Thomas Hope, Patrick Veit-Haibach, 2018-01-23 In this book, experts from premier institutions across the world with extensive experience in the field clearly and succinctly describe the current and anticipated uses of PET/MRI in oncology. The book also includes detailed presentations of the MRI and PET technologies as they apply to the combined PET/MRI scanners. The applications of PET/MRI in a wide range of oncological settings are well documented, highlighting characteristic findings, advantages of this dual-modality technique, and pitfalls. Whole-body PET/MRI applications and pediatric oncology are discussed separately. In addition, information is provided on PET technology designs and MR hardware for PET/MRI, MR pulse sequences and contrast agents, attenuation and motion correction, the reliability of standardized uptake value measurements, and safety considerations. The balanced presentation of clinical topics and technical aspects will ensure that the book is of wide appeal. It will serve as a reference for specialists in nuclear medicine and radiology and oncologists and will also be of interest for residents in these fields and technologists.

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