

Short Biography

Prof. Habib Zaidi, B.Eng, M.Sc, Ph.D, PD

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Professor Habib Zaidi is Chief physicist and head of the PET Instrumentation & Neuroimaging Laboratory at Geneva University Hospital and faculty member at the medical school of Geneva University. He is also a Professor of Medical Physics at the University of Groningen (Netherlands), Adjunct Professor of Medical Physics and Molecular Imaging at the University of Southern Denmark, Adjunct Professor of Medical Physics at Shahid Beheshti University and visiting Professor at IAS/University Cergy-Pontoise (France). He is actively involved in developing imaging solutions for cutting-edge interdisciplinary biomedical research and clinical diagnosis in addition to lecturing undergraduate and postgraduate courses on medical physics and medical imaging. His research is supported by the Swiss National Foundation, private foundations and industry (Total 6M US\$) and centres on hybrid imaging instrumentation (PET/CT and PET/MRI), modelling medical imaging systems using the Monte Carlo method, development of computational anatomical models and radiation dosimetry, image correction, reconstruction, quantification and kinetic modelling techniques in emission tomography as well as statistical image analysis in molecular brain and oncologic imaging, and more recently on novel design of dedicated PET and PET/MRI scanners. He was guest editor for 10 special issues of peer-reviewed journals dedicated to *Medical Image Segmentation*, *PET Instrumentation and Novel Quantitative Techniques*, *Computational Anthropomorphic Anatomical Models*, *Respiratory and Cardiac Gating in PET Imaging*, *Evolving medical imaging techniques*, *Trends in PET quantification (2 parts)*, *PET/MRI Instrumentation and Quantitative Procedures and Clinical Applications*, and *Nuclear Medicine Physics & Instrumentation* and serves as Senior Editor for the *British Journal of Radiology* and member of the editorial board of *Medical Physics*, *Nuclear Medicine Communications*, *Clinical and Translational Imaging*, *American Journal of Nuclear Medicine and Molecular Imaging*, *International Journal of Molecular Imaging*, *Biomedical Imaging and Intervention Journal*, *International Journal of Biomedical Engineering and Consumer Health Informatics* and *Medical Physics Journal*. He is also serves as Associate Editor for the *International Journal of Biomedical Imaging*, the *International Journal of Tomography & Simulation* and the *Journal of Engineering & Applied Sciences* and scientific reviewer for leading journals in medical imaging. He has been elected as senior member of the IEEE and liaison representative of the *International Organization for Medical Physics (IOMP)* to the World Health Organization (WHO) in addition to being affiliated to several International medical physics and nuclear medicine organisations. He is developer of physics web-based instructional modules for the RSNA and Editor of IPEM's Nuclear Medicine web-based instructional modules. He is also He is involved in the evaluation of research proposals for European and International granting organisations and participates in the organisation of International symposia and top conferences as member of scientific committees. His academic accomplishments in the area of quantitative PET imaging have been well recognized by his peers and by the medical imaging community at large since he is a recipient of many awards and distinctions among which the prestigious *2003 Young Investigator Medical Imaging Science Award* given by the *Nuclear Medical and Imaging Sciences Technical Committee of the IEEE*, the *2004 Mark Tetalman Memorial Award* given by the *Society of Nuclear Medicine*, the *2007 Young Scientist Prize in Biological Physics* given by the *International Union of Pure and Applied Physics (IUPAP)*, the prestigious (100'000\$) *2010 kuwait Prize of Applied sciences* (known as the *Middle Eastern Nobel Prize*) given by the *Kuwait Foundation for the Advancement of Sciences (KFAS)* for "outstanding accomplishments in Biomedical technology", the *2013 John S. Laughlin Young Scientist Award* given by the *American Association of Physicists in Medicine (AAPM)*, the *2013 Vikram Sarabhai Oration Award* given by the *Society of Nuclear Medicine, India (SNMI)*, the *2015 Sir Godfrey Hounsfield Award* given by the *British Institute of Radiology (BIR)* and the *2017 IBA-Europhysics Prize* given by the *European Physical Society (EPS)*. Prof. Zaidi has been an invited speaker of over 130 keynote lectures and talks at an International level, has authored over 490 publications, including 232 peer-reviewed journal articles in prominent journals (ISI-h index=38 – Web of Science™, >9'330+ citations – Google scholar), 226 conference proceedings and 32 book chapters and is the editor of three textbooks on *Therapeutic Applications of Monte Carlo Calculations in Nuclear Medicine*, *Quantitative Analysis in Nuclear Medicine Imaging* and *Molecular Imaging of Small Animals*.