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With a bachelor's degree in physics, a master's degree and PhD in physical acoustics, plus medical training and postdoctoral training in biomedical ultrasound, all from the University of Paris, Pascal Laugier held a full time permanent position at CNRS (National Center for Scientific Research) as a Research Director (Full-professor with the highest rank).

Dr Laugier was the head of the Biomedical Imaging Laboratory (2014-2018), a public laboratory affiliated with Sorbonne University of Paris, CNRS, and INSERM (French National Institute of Health). He has also been the principal investigator (2008-2015) of ULAB (Ultrasound-based Assessment of Bone), a joint research laboratory between the University of Kiel (Germany), the University of Berlin (Germany), and Sorbonne University; a former director of the Parametric Imaging Lab (2001 – 2014); a former chairman of the national research evaluation committee "Therapy, Pharmacology and Bio-engineering" (2008-2012); a member of the national research evaluation committee "Experimental methods, concepts and instrumentation in materials science and life engineering" (2012-2015); a member of the Research Advisory Board of the University Pierre and Marie Curie; a member of the Scientific Board of the National Institute of Engineering and Systems Sciences of the CNRS (2012-2014); a member of the Scientific Board of the National Institute of life Sciences of the CNRS (2015-2018).

He co-authored ~220 articles in peer review journals, ~200 conference proceedings papers, ~120 invited talks and keynotes, >700 conference abstracts, 30 book chapters, co-edited the Proceedings of the World Congress on Ultrasonics (Paris, 2003) and two books entitled Bone quantitative ultrasound (Springer 2011, 2021). He served as a guest editor for the journal IEEE Transactions on Ultrasonics Ferroelectric and Frequency Control (2008) and the journal Ultrasonics (2013). He has been on the editorial board of 5 engineering and medical journals, among which IEEE Transactions on Ultrasonics Ferroelectric and Frequency Control, Ultrasonic Imaging, Ultrasound in Medicine and Biology, and Physics in Medicine.

The holder of 12 patents and the recipient of numerous research grants from industry as well as governmental sources, Dr Laugier is cofounder of the spin-off company Azalée, which was created (2013) to develop medical devices using ultrasound-guided waves to measure cortical bone and assess its structural and mechanical properties.

Dr Laugier is the recipient of the CNRS Bronze Medal (1993), the Yves Rocard Prize from the French Physics Society (1997), the European Grand Prix for Innovation (2001) and the Medal of French Acoustical Society (2009). He has been elected Member of the European Academy of Sciences (2003). He is Fellow of the American Institute for Medical and Biological Engineering (2007), Fellow of the Acoustical Society of America (2009) and Honorary Fellow of the American Institute of Ultrasound in Medicine (2014). He is appointed in the College of Expert Reviewers of the European Science Foundation (2016-2019) and an Official Nominator for the "Japan Prize" since 2017.

His research activities are focused on the areas of biomedical applications of ultrasound and medical imaging sciences. The team he led has been involved for 25 years in sustained research in the field of bone quantitative ultrasound. Research centres on understanding interaction between ultrasound and bone structures, using experiments, numerical simulations and analytical models and on developing innovative ultrasound-based technologies for *in vivo* bone assessment. Much of the science and technological breakthrough in bone quantitative ultrasound, e.g., ultrasound bone imaging, guided waves and resonant ultrasound spectroscopy have been developed in his group.

Dr Laugier is particularly known for his international and multidisciplinary collaborations in the field of non-invasive bone assessment. He wrote articles with research groups all around the globe (USA, China, Japan, Brazil, and Europe). A consultant for industry, including the European Space Agency, Dr Laugier has also taken part to the organization of more than 15 international conferences. He is a permanent member of the Board of the International Congress on Ultrasonics (2003-); a permanent member of the Board of the International Advising Committee of the International Bone Densitometry Workshop (2004-); a permanent member of the Board of the International Symposium on Ultrasonic Characterization of Bone (2006-) a biennial conference that he launched in 2006; In addition, he served as a reviewer for agencies around the world, including the National Institutes of Health (USA), the National Scientific and Engineering Research Council of Canada; the Canadian Institutes of Health research; the Royal Society (United Kingdom), the Research Council of Norway, the Poland National Science Center, the Israel Science Foundation, the Hong Kong Polytec University; and many others.