

**Professor Dr Ng Kwan Hoong, PhD, ABMP, FIPM, FInstP, FIOMP, FIUPESM, FASc, AMM**

Medical Physicist and Professor,

Department of Biomedical Imaging, University of Malaya

A medical physics pioneer whose research in radiation medicine has contributed significantly to the fight against breast cancer globally by researching in various imaging methods including breast density measurement to help early detection. His extensive research on breast cancer imaging also won him the prestigious Marie Sokolowskis-Curie Award. A multidisciplinary expert who also served on the International Atomic Energy Agency and founded the South East Asian Federation of Organizations for Medical Physics, among many organisations.



Recently, Prof Ng was honoured with the Merdeka Award under the Outstanding Scholastic Achievement category for his contributions to breast cancer research and medical physics. Each year, the Merdeka Award is conferred to individuals or organisations in five categories; Education and Community; Environment; Health, Science and Technology; Outstanding Scholastic Achievement; and the Outstanding Contribution to the People of Malaysia category.

A Malaysian pioneer in medical physics and a professor at the University of Malaya's Department of Biomedical Imaging, he was among the few in the country who are researching the role of breast density in predicting breast cancer risk.

In the recent global COVID-19 crisis, he has made significant strides in the scientific community leading a multidisciplinary, multi-national team to develop an online resource for new and emerging COVID-19 research publications, <http://www.covid19bibliometrics.org> to provide reliable information on what can be trusted as sound science, identify research trends and gaps in knowledge to assist researchers to identify topics that need further investigation.

He also led a team of researchers to design and develop an infrared digital thermometer prototype, sauna32, that collects body temperature data using Internet of Things (IoT) capability. The team is also looking into the possibility of predicting COVID-19 hotspots in real-time in the future, using machine learning analysis of the collected body temperature data.

Even before his achievements, he had contributed extensively to the IOMP for over two decades: having served as a member in several of its committees; as chairman of its International Advisory Board and chairman of its publication committee.

He has also contributed significantly to the development of medical physics in Asia-Pacific and beyond.

He was also the founding president and president emeritus of the South East Asian Federation of Organizations of Medical Physicists (SEAFOMP), and one of the founders of the Asia-Oceania Federation of Organizations of Medical Physicists (AFOMP).

He is also a prolific writer who has published many international journals, authored and co-authored over 250 papers in peer-reviewed journals, 90 conference proceedings papers, 35 book chapters and has co-edited 10 books.

He sits in the editorial and advisory boards of more than 10 journals, including Singapore Medical Journal, Journal of Applied Clinical Medical Physics, Physical & Engineering Sciences in Medicine, Medical Physics, Biomedical Physics and Engineering Express.

Being an accomplished speaker, Professor Ng has presented over 550 scientific papers, with more than 350 of them as a guest lecturer.