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Dr. Nitsara Karoonuthaisiri has published over 70 peer-reviewed scientific papers with an author h-index of 21, filed 22 patents, 8 petite patents, 13 prototypes, a book chapter and a trade secret during her research career at National Center for Genetic Engineering and Biotechnology (BIOTEC).

Dr. Karoonuthaisiri was born in Thailand and won a prestigious Royal Thai Government Scholarship to pursue her education in USA. She finished her B.S. in Chemical Engineering (honors with distinctions, departmental valedictorian) from Columbia University, New York, in 1999. Upon obtaining her M.S. and Ph.D. in Chemical Engineering from Stanford University in 2004.

Dr. Karoonuthaisiri has taken a research position at BIOTEC (Thailand) and she established a microarray laboratory there. Her research team in microarray laboratory employs microarray technology to study black tiger shrimp, an economically important export for Thailand, and develop antibody arrays for diagnostics. She is also a guest lecturer for various universities in Thailand and was the founding Co-Chair of the Global Young Academy, which aims to empower and mobilize young scientists to address issues of particular importance to early career scientists.

Dr. Karoonuthaisiri has received numerous awards and honors, including 'Outstanding ONE HEALTH Researcher in Aquaculture Award' from American National Shellfisheries Association, the Marie Curie Fellowship from the EU, Outstanding Young Technologist, UNESCO-L'Oreal Women in Science Fellowship, Young Global Leader from World Economic Forum "Women Who Make a Difference" by Thailand Tatler, "Working Women of the Year 2009" by Phuying magazine, and 1 of 50 "Women Who Will Make a Change" by A Day magazine. She has also been featured in Nature and Scientist magazines.