

## CURRICULUM VITAE



**Name** Yoshinobu Baba, PhD, Fellow of Royal Society of Chemistry  
**Positions** Professor, Department of Chemistry and Biotechnology, School of Engineering, Nagoya University  
Director, ImPACT Research Center for Advanced Nanobiodevices, Nagoya University  
Professor, Department of Advanced Medical Science, Graduate School of Medicine, Nagoya University  
Guest Professor, Department of Chemistry, Graduate School of Science, University of Tokyo  
Research Supervisor, JST (Japan Science Technology Agency) CREST Project

### Education:

1977-1981 Faculty of Science, Kyushu University, BS Degree in Chemistry  
1981-1986 Department of Chemistry, Faculty of Science, Kyushu University, Ph. D. Degree in Chemistry

### Research and Professional Experience:

1986-1986 Postdoctoral Fellowship at Kobe Women's College of Pharmacy  
1986-1988 Assistant Professor at the Department of Chemistry, Oita University  
1988-1990 Senior Lecturer at the Department of Chemistry, Oita University  
1990-1996 Senior Lecturer at the Department of Chemistry, Kobe Women's College of Pharmacy  
1996-1997 Associate Professor at the Department of Chemistry, Kobe Pharmaceutical University  
1997-2005 Professor at the Department of Medicinal Chemistry, The University of Tokushima  
2004-present Professor at the Department of Applied Chemistry, Graduate School of Engineering, Nagoya University  
2006-present Professor at the Plasma Nanotechnology Research Center, Nagoya University  
2008-present Professor at the Department of Advanced Medical Science, Graduate School of Medicine, Nagoya University  
2008-2012 Presidential Advisor of Nagoya University  
2010-2015 Director, FIRST Research Center for Innovative Nanobiodevices, Nagoya University  
2010-present Research Advisor, Health Research Institute, National Institute of Advanced Industrial Science and Technology (AIST)  
2012-2015 Director, Synchrotron Radiation Research Center, Nagoya University  
2014-present Professor, Institute of Innovation for Future Society, Nagoya University  
2015-present Director, ImPACT Research Center for Advanced Nanobiodevices, Nagoya University  
2015-2016 Chair at the Department of Applied Chemistry, Graduate School of Engineering, Nagoya University  
2017-present Professor, Department of Biomolecular Engineering, Graduate School of Engineering, Nagoya University  
2017-present Honorary Guest Professor, College of Pharmacy, Kaohsiung Medical University  
2017-present Guest Professor, Department of Chemistry, Graduate School of Science, University of Tokyo  
2017-present Research Supervisor, JST (Japan Science and Technology Agency) CREST "Elucidation of biological mechanism of extracellular fine particles and the control system" Project

**Award:** In total, 170 awards were awarded for his and his group's works, some of them are listed below:

1991 Young Pharmaceutical Scientist Award from the Kinki Division of the Pharmaceutical Society of Japan in  
1996 The Young Pharmaceutical Scientist Award from the Pharmaceutical Society of Japan  
2002 Science Award from Tokushima Newspaper  
2003 Takeda International Award for Science and Technology  
2004 Award from Japan Society for Toxicology  
2004 MERCK Award (Heinrich-Emanuel-Merck-Award), Germany  
2005 Fellow of Royal Society of Chemistry, UK  
2006 Award for the Japan Society for Applied Physics, The best Review Award  
2007 Fellow, American Academy of Nanomedicine  
2008 The CSJ (Chemical Society of Japan) Award for Creative Work  
2009 Award for Industrial-Academy Collaboration  
2013 Lu Jiayi Lectureship  
2014 Award, The Society for Chromatographic Science  
2015 Award, The Japan Society for Analytical Chemistry  
2016 The Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology, Prizes for Science and Technology, Research Category  
2016 Terabe Shigeru Award

### Associate Editor and Deputy Editor

○*Analytical Chemistry* Associate Editor (2011-) American Chemical Society  
○*Electrophoresis* Deputy Editor (2001-03) Wiley-VCH

### Editorial Board Membership for International Journals

○*Electrophoresis* Editorial Board (1999-03) Wiley-VCH  
○*European Journal of Pharmaceutical Sci.* Editorial Board (1999-03) Elsevier  
○*Chromatography* Editorial Board (1999-) Soc. of Chromatogr. Sci.  
○*Sensors & Actuators B* Editorial Board (2000-) Elsevier  
○*Expert Review of Molecular Diagnostics* Editorial Board (2001-) Future Drugs  
○*Analytical and Bioanalytical Chemistry* Editorial Board (2002-2010) Springer  
○*Journal of Chromatography B* Editorial Board (2002-) Elsevier

○ <i>Lab on a Chip</i>	Int'l Advisory Board (2002-05)	Royal Society of Chemistry
○ <i>Journal of Microcolumn Separation</i>	Editorial Board (2002-)	Springer
○ <i>Bionics</i>	Editorial Board (2004-2006)	Ohm Publisher
○ <i>Current Analytical Chemistry</i>	Editorial Board (2005-)	Bentham Science Publishers
○ <i>Current Pharmaceutical Analysis</i>	Editorial Board (2005-)	Bentham Science Publishers
○ <i>NanoBiotechnology</i>	Editorial Board (2005-)	Humana Press
○ <i>Analytical Chemistry</i>	Editorial Adv. Board (2006-08)	American Chemical Society
○ <i>Lab on a Chip</i>	Editorial Board (2006-2009)	Royal Society of Chemistry
○ <i>Nanoscale Research Lett.</i>	Editorial Board (2006-)	Springer
○ <i>Open Analytical Chemistry Journal</i>	Editorial Board (2007-)	Bentham Science Pub.
○ <i>MedicalBio</i>	Editorial Board (2007-)	Ohm Publisher
○ <i>Open Current Process Chemistry Journal</i>	Editorial Board (2008-)	Bentham Science Pub.
○ <i>Advances in Analytical Chemistry</i>	Editorial Board (2008-)	Hindawi Pub..
○ <i>Automated Experimentation</i>	Editorial Board (2009-)	BioMed Central.
○ <i>Nanoscale</i>	Editorial Board (2009-)	Royal Society of Chemistry
○ <i>Biomicrofluidics</i>	Editorial Board (2010-)	American Institute of Physics
○ <i>Lab on a Chip</i>	Advisory Board (2016-)	Royal Society of Chemistry

### Project Leader of National Project

1999-2005	JST CREST	Total budget : 9 M\$
	Nanochip Technology Project	
2000-2003	METI/NEDO	Total budget: 3 M\$
	Nanochannel Electrophoresis Project	
2003-2006	METI/NEDO	Total budget: 17 M\$
	Advanced Nanobiodevice Project	
2006-2009	MEXT	Total budget: 17 M\$
	Preventive Medical Engineering Project	
2007-2012	MEXT	Total budget: 9 M\$
	Nanotechnology Network Project	
2009-2010	MEXT	Total budget: 9 M\$
	Research Promotion Project	
2009-2013	Cabinet Office FIRST Project	Total budget: 35 M\$
	Innovative Nanobiodevice Project	
2010-2015	Aichi Prefecture	Total budget: 25 M\$
	Early-Stage Diagnosis Project	
2011-2018	MEXT	Total budget: 20 M\$
	Integrative Graduate Education and Research Program in Green Natural Sciences	
2012-2023	MEXT	Total budget: 5 M\$
	Nanotechnology Platform	
2012-2019	MEXT	Total budget: 20 M\$
	PhD Professional Program	
2013-2018	MEXT/AMED	Total budget: 5 M\$
	Regenerative Medicine Network Program	
2013-2022	MEXT	Total budget: 150 M\$
	COI (center of innovation) for Personalized Society Innovation Design	
2014-2018	Cabinet Office ImPACT Program	Total budget: 30 M\$
	Innovative Biosensing Project	
2014-2019	AMED	Total budget: 70 M\$
	miRNA Analytical Technology Project	
2016-2019	Aichi Prefecture	Total budget: 2 M\$
	Nanofabrication for Healthcare	
2017-2025	Research Supervisor, JST (Japan Science and Technology Agency) CREST “Elucidation of biological mechanism of extracellular fine particles and the control system” Project	

**Publication:** The author or co-author of 991 publications, including research papers, review articles, books, and book chapters.

**Patent:** 100 JPN, PCT Patents, and patent applications

**Plenary and Invited Lectures:** 930 plenary and invited lectures at conferences, universities, and industrial laboratories.

**Awards:** 170 awards were awarded for his and his group's works.

**TV and News Papers:** His work has been cited on 460 occasions by newspapers and televisions.