Curriculum vitae

JENS BREDAL NIELSEN, R., PhD, dr.techn.

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Personal information

Date of birth:	November 17th, 1962.
Place of birth:	Horsens, Denmark

Citizenship: Danish Researcherid: Q-1347-2017

ORCID ID: 0000-0002-9955-6003

Education and degrees

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1986	M.Sc. in Chemical Engineering, DTU, Denmark
1989	Ph.D. in Biochemical Engineering, Department of Biotechnology, DTU, Denmark
1995	dr.techn., DTU, Denmark

Positions

1986	Research Assistant, School of Engineering, University of Western Ontario, Canada
1987-1989	PhD student, Department of Biotechnology, DTU, Denmark
1989	Post doc, Institut für Technische Chemie, Universität Hannover, Germany
1990-1995	Associate Research Professor, Department of Biotechnology, DTU, Denmark
1995-1996	Visiting Professor, Department of Chemical Engineering, MIT, USA
1996-1998	Associate Professor, Department of Biotechnology, DTU, Denmark
1998-2008	Professor, BioCentrum, DTU, Denmark
2005-2011	Adjunct Professor, Department of Biotechnology, NTNU, Norway
2008-2015	Professor, Department of Chemical and Biological Engineering, Chalmers, Sweden
2011-2019	Professor, Novo Nordisk Foundation Centre for Biosustainability, DTU, Denmark
2012-2017	Adjunct Professor, Department of Biotechnology, Royal Institute of Technology (KTH), Sweden
2013-2019	Chief Science Officer, Novo Nordisk Foundation Centre for Biosustainability, DTU, Denmark
2015	Founding Head of Department, Department of Biology and Biological Engineering, Chalmers,
	Sweden (served 9 months as Head of Department and structured a department of 150 people)
2015-	Professor, Department of Biology and Biological Engineering, Chalmers, Sweden
2016-2019	Adjunct Professor, Beijing University of Chemical Technology (BUCT), China
2019-	CEO, BioInnovation Institute, Copenhagen, Denmark

Academic Appointments and Merits		
1994-1999	Founding Chairman, Danish Biotechnological Forum, Denmark	
1995-2000	Deputy Director, Center for Process Biotechnology, DTU, Denmark	
1995-1998	Co-ordinator, Physiological Engineering, Nordic Industrial Fund	
1998-2002	Co-ordinator, NordPhys, Nordic Industrial Fund	
2001-2003	Director, Center for Process Biotechnology, DTU, Denmark	
2001-2003	Board Member, Center for BioProcess Technology, KTH, Sweden	
2002	Evaluation Panel, Dutch genomics initiative (50 million EUR)	
2002-2007	SAB Member, Kluywer Center for Genomics of Industrial Fermentations, TU Delft, The Netherlands	
2002-2008	SAB Member, Max-Planck Institute for Dynamic of Complex Technical Systems, Germany	
2003	Guest Professor, Tianjin University, China	
2004-2007	Founding Director, Center for Microbial Biotechnology, DTU, Denmark	
2004-2007	Member of Integrative and Systems Biology Panel, BBSRC, UK (50 million GPD)	
2004-	Advisory Board, Society for Biological Engineering, USA	
2005	Chairman of Evaluation Committee, HepatoSys, Germany	
2005-2008	Co-ordinator, Yeast Systems Biology Network, EU Framework VI	
2006-2007	Founder and Board Member, Danish Biotechnological Society, Denmark	
2008-2011	Member of Review Panel of SystemsX.ch, Switzerland (100 million CHF)	
2008-2011	Co-ordinator, Systems Biology as a Driver for Industrial Biotechnology, EU Framework VII	
2009-2014	SAB Member, Netherlands Institute for Systems Biology, The Netherlands	
2010-2016	Director Area of Advance Life Science, Chalmers University of Technology, Sweden	
2010-2019	Member of World Council for Industrial Biotechnology, World Economic Forum	
2011-2012	Member of Industrial Biotechnology and Bioenergy Strategy Advisory Panel, BBSRC, UK	

2011	Describential armaintal analysis of Humbalt Hairsonite Communi
	Presidential appointed evaluator of Humbolt University, Germany
2011	Member of DoE Evaluation Panel for Joint Bioenergy Institute, USA
2011-	Swedish Delegate in International Commission of Yeast (ICY)
2011-2015	National Reference Committee, Science for Life Laboratory, Stockholm, Sweden
2012-2014	Scientific Advisory Board Universeum Science Museum, Gothenburg, Sweden
2012-	Founding president of International Metabolic Engineering Society, USA
2012	4th Most cited European researcher in the field of Mycology
2012-2013	Evaluation panel of Academy of Finland, Finland
2012-2014	International Advisory Board, Thailands National Center for Genetic Engineering and
	Biotechnology, Bangkok, Thailand
2014	Scientific Advisory Board, Energy Biosciences Institute, UC Berkeley, Berkeley, USA
2015-2018	Advisory Board, Gothia Forum, Sahlgrenska University Hospital, Gothenburg, Sweden
2016-2019	Director of Life Science, Beijing Advanced Center for Soft Matter Science and Engineering, Beijing
	University of Chemical Technology, China
2016-2019	Advisory Committee, Joint Bioenergy Institute, Lawrence Berkeley Laboratory, USA
2016-	Committee chairman for Novozymes Award for Excellence in Biochemical and Chemical
	Engineering, Novozymes, Denmark
2016-	Novozymes Prize award committee, Novo Nordisk Foundation, Denmark (chairman 2018-2019)
2018-	F1000 Faculty, F1000Prime
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Awards	
1989	Direktør Gorm Petersen's Mindelegat, Denmark
1994	Ulrik Brinch og Hustru Marie Brinch's legat, Denmark
1996	STVFs Jubilæumspris, Statens Teknisk Videnskabelige Forskningsråd, Denmark
2001	Aksel Tovborg Jensens Legat, Bjerrum-Brøndsted-Lang Lecture, Carlsberg Foundation, Denmark
2002	Villum Kann Rasmussen's Årslegat, Villum Kann Rasmussen Fonden, Denmark
2004	Merck Award for Metabolic Engineering, USA
2011	Amgen Biochemical Engineering Award, USA
2012	Charles D. Scott Award 2012, Symposium on Biotechnology for Fuels and Chemicals, USA
2012	Nature Award for Mentoring, Nature Publishing Group, UK
2013	Norblad-Exstrand Medalj, The Swedish Chemical Society, Sweden
2016	Gaden Award, American Chemical Society, USA
2016	Novozymes Prize, Novo Nordisk Foundation, Denmark
2017	ENI Award, ENI, Italy
2017	Gold Medal, Royal Swedish Academy of Engineering Sciences, Sweden
2017	Eric and Sheila Samson Prime Ministers Prize for Innovation in Alternative Fuels for
	Transportation, Fuels and Smart Mobility Initiative, Israel
2019	Emil Chr. Hansen's Gold Medal for Microbiological Research, Denmark
2019	Arvid Carlsson Award, Sahlgrenska Science Park, Sweden
2019	James E. Bailey Award, American Institute for Chemical Engineering, USA
2020	Gregory Stephanopoulos Award for Metabolic Engineering, IMES, USA
Academies	
1997	Member of the Academy of Technical Sciences, Denmark
2010	National Academy of Engineering, USA
2010	Member of the Royal Danish Academy of Science and Letters, Denmark
2010	Member of the Royal Swedish Academy of Engineering Sciences, Sweden
2011	College of Fellows of American Institute for Medical and Biological Engineering, USA
2012	Member of Royal Society of Arts and Sciences in Gothenburg, Sweden
2012	Fellow of the American Academy of Microbiology, USA
2014	Member of the Royal Swedish Academy of Sciences, Sweden
2019	National Academy of Sciences, USA
2019	Royal Physiographic Society of Lund, Sweden
2019	Chinese Academy of Engineering, China
Other Honors	S
1995	Fulbright Fellow, USA
2002	Sunner Memorial Lecture, Lund University, Sweden
2004	Hough Memorial Lecture, Birmingham University, UK
2010	Appointed as Wallenberg Scholar, Sweden
2014	William Chalmers Lecture, Chalmers University of Technology, Sweden
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2014	Honorary Professor, Beijing University of Chemical Technology, Beijing, China
2015	Zhang Dayu Lectureship , Dalian Institute for Chemical Physics, Chinese Academy of Science, China
2015	Honorary Professor, Dalian Institute for Chemical Physics, Chinese Academy of Science, China
2015, 2016	Highly Cited Researcher, Thomson Reuter
2017	Honorary Professor, East China University of Science and Technology, Shanghai, China
2017	Adjunct Professor, Jiangnan University, Wuxi, China
2017, 2018	Highly Cited Researcher, Clarivate
2019	Honorary Professor, Jiangnan University, Wuxi, China
2019	Ridder af Dannebrog (Knight of the order of Dannebrog), Queen Margrethe II, Denmark
2019	Honorary Professor, Tianjin University, Tianjin, China
2019	Peiyang Lectureship, Tianjin University, Tianjin, China
2019	Honorary Professor, Nankai University, Tianjin, China
2019	Highly Cited Researcher, Web-of-Science
Memberships	
1986-	The Danish Society for Engineers, Denmark
1996-	Member of American Association for the Advancement of Science, USA
2001-	Society for Industrial Microbiology, USA
2004-	American Chemical Society, USA
2004-	Society for Biological Engineering, USA
2006-	American Society for Microbiology, USA
2012-	International Metabolic Engineering Society, USA
Publications ,	Patents, Presentations and Citations
Google Schole	ar: H-factor of 124; >74,000 citations and >38,000 citations since 2015
Web of Scienc	e Highly Cited Researcher in 2015-2019
609	Original Papers in Peer Reviewed Journals
120	Review Papers in Peer Reviewed Journals
31	Commentaries in peer reviewed journals
46	Book Contributions
3	Text books : Bioreaction Engineering Principles (1994,2003,2011) (English & Chinese), Metabolic
	Engineering (1998) (English, Chinese & Japanese), Metabolome Analysis (2007)
1	Monograph
4	Edited books
38	Issued patents (8 patent families)
36	Patent applications (15 patent families)
221 134	Invited oral presentations at international conferences
	Invited seminars at universities and companies
Key Grants	
1993-1996	Nordic Project on Physiological Engineering, Nordic Industrial Fund (>20 MDKK)
1995-2002	4 Projects, EU Framework VI (about 8 MDKK)
1996-1999	Center for Process Biotechnology, Danish Technical Research Council (20 MDKK)
1997-2000	Nordic network NordPhys, Nordic Industrial Fund (4 MDKK)
1999-2003	DABIC, Danish Technical Research Council (18 MDKK)
2000-2007	6 Projects, EU Framework V (about 15 MDKK)
2003-2007	Heterologous production of polyketides, Danish Technical Research Council (2.8 MDKK)
2004-2008	Center for Microbial Biotechnology, Danish Technical Research Council (36 MDKK)
2005-2009	3 Projects, EU Framework VI (about 8.5 MDKK)
2005-2008 2005-2008	Genome sequencing of A. balhamycina, Lundbech Foundation (1.2 MDKK)
2005-2008	Yeast Systems Biology Network, EU Framework VI (1.3 MEUR) Voost in No Crevity, European Space Agency (2.7 MDVV)
	Yeast in No Gravity, European Space Agency (2.7 MDKK) Systems Pickery From model organisms to application NORDEORSK (0.8 MNOK)
2007-2009 2008-2011	Systems Biology: From model organisms to application, NORDFORSK (0.8 MNOK) Systems Biology as a Driver for Industrial Biotechnolog, EU Framework VII (1 MEUR)
2008-2011	UNICELLSYS, EU Framework VII (5.4 MSEK)
2008-2013	Regulation of lipid metabolism in eukaryotic cells, Vetenskapsrådet (3 MSEK)
2010-2011	Industrial Systems Biology, European Research Council (2.5 MEUR)
2010-2014	Systems Biology of Metabolism, NORDFORSK (0.6 MNOK)
2010-2013	Wallenberg Scholar, Knut and Alice Wallenberg Foundation (15 MSEK+15 MSEK)
2011-2020	NNF Center for Biosustainability, Novo Nordisk Foundation (60 MDKK)
2011-2020	Engineering of Acetyl-CoA Metabolism in Yeast, Vetenskapsrådet (6.4 MSEK)
2012-2013	Engineering of Acceptation in Least, Veteriskapstauct (0.4 MSER)

2012-2014	Platform for studying metagenomes and metabolic diseases, Torsten Söderbergs Stiftelse (5 MSEK)
2012-2017	BioVacSafe, Innovative Medicines Initiative, EU (10.0 MSEK)
2012-2016	Excellence Center for Metabolic Engineering, FORMAS (25 MSEK)
2012-2017	MetaCardis, EU Framework VII (7.5 MSEK)
2012-2017	Advanced Biofuel Production by Oleagenous Yeast, Department of Energy, USA (2 MUSD)
2013-2016	Biobased production of diesel and jetfuel, Vetenskapsrådet (17 MSEK)
2014-2016	Mathematical modelling of tissue metabolism in response to malnutrition, Bill & Melinda Gates
2014-2010	Foundation (1 MUSD)
2014-2017	YeastCell, ITN Marie Curie, EU Framework VII(3 MSEK)
2014-2017	QuantFung, ITN Marie Curie, EU Framework VII (5 MSEK)
2015-2018	3 Projects, ERA-SysApp and ERA-Pathogen, EU Framework VII (9 MSEK)
2015-2019	Biotechnological Production of High-Value Added Ingredients, Stiftelsen for Strategisk Forskning
2013-2019	(32 MSEK)
2016-2019	Genome-scale transcriptional regulation in yeast, Vetenskapsrådet (4.4 MSEK)
2016-2019	Gut-microbiome effect on CVD, Novo Nordisk Foundation (9 MDKK)
2016-2021	Wallenberg Center for Protein Research, Knut and Alice Wallenberg Foundation (20 MSEK)
2016-2019	CHASSY, Horizon 2020 (7 MSEK)
2016-2020	DD-DeCaF, Horizon2020 (8.5 MSEK)
2016-2020	PacMEN, ITN Marie Curie, Horizon2020 (6 MSEK)
2010-2020	Proof-of-Concept of cancer biomarkers, Knut and Alice Wallenberg Foundation (4.5 MSEK)
2017-2018	Biobased production of diesel and jetfuels, Energimyndigheten (4 MSEK)
2017-2020	Systems biology of the eukaryal protein secretion pathway, Stiftelsen for Strategisk Forskning (34
2017-2023	MSEK)
2018-2019	Proof-of-Concept of cancer biomarkers, Knut and Alice Wallenberg Foundation (5 MSEK)
2018-2019	CellNova, Vinnova (9 MSEK) (co-PI together)
2010-2023	
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Editorial Act	ivities
Editorial Act	ivities Chemical Engineering Science, Guest editor of special volume
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1999	Chemical Engineering Science, Guest editor of special volume Metabolic Engineering, Editorial Board (1999-2002), Assoc. Editor (2003-2019), Editor-in-Chief (2018-2019)
1999	Chemical Engineering Science, Guest editor of special volume Metabolic Engineering, Editorial Board (1999-2002), Assoc. Editor (2003-2019), Editor-in-Chief (2018-2019) Applied Microbiology and Biotechnology, Editorial Board
1999 1999-2019 1999- 2000-2018	Chemical Engineering Science, Guest editor of special volume Metabolic Engineering, Editorial Board (1999-2002), Assoc. Editor (2003-2019), Editor-in-Chief (2018-2019) Applied Microbiology and Biotechnology, Editorial Board Bioprocess and Biosystems Engineering, Assoc. Editor (2000-2007), Editorial Board (2007-2018)
1999 1999-2019 1999- 2000-2018 2001-	Chemical Engineering Science, Guest editor of special volume Metabolic Engineering, Editorial Board (1999-2002), Assoc. Editor (2003-2019), Editor-in-Chief (2018-2019) Applied Microbiology and Biotechnology, Editorial Board Bioprocess and Biosystems Engineering, Assoc. Editor (2000-2007), Editorial Board (2007-2018) Biotechnology and Bioengineering, Assoc. Editor
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1999 1999-2019 1999- 2000-2018 2001- 2001-2019	Chemical Engineering Science, Guest editor of special volume Metabolic Engineering, Editorial Board (1999-2002), Assoc. Editor (2003-2019), Editor-in-Chief (2018-2019) Applied Microbiology and Biotechnology, Editorial Board Bioprocess and Biosystems Engineering, Assoc. Editor (2000-2007), Editorial Board (2007-2018) Biotechnology and Bioengineering, Assoc. Editor FEMS Yeast Research, Editorial Board (2001-2007), Assoc. Editor (2007-2019), Editor-in-Chief (2011-2019)
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1999 1999-2019 1999-2000-2018 2001-2019 2004- 2004- 2008- 2009- 2010- 2012- 2013- 2015-2020	Chemical Engineering Science, Guest editor of special volume Metabolic Engineering, Editorial Board (1999-2002), Assoc. Editor (2003-2019), Editor-in-Chief (2018-2019) Applied Microbiology and Biotechnology, Editorial Board Bioprocess and Biosystems Engineering, Assoc. Editor (2000-2007), Editorial Board (2007-2018) Biotechnology and Bioengineering, Assoc. Editor FEMS Yeast Research, Editorial Board (2001-2007), Assoc. Editor (2007-2019), Editor-in-Chief (2011-2019) Journal of Industrial Microbiology and Biotechnology, Editorial Board (2004-2010), Senior Editor (2010-2015), Editorial Board (2015-) Advances in Biochemical Engineering/Biotechnology, Editorial Board Microbial Cell Factories, Advisory Board Microbial Biotechnology, Editorial Board Biotechnology Journal, Editorial Board ACS Synthetic Biology, Editorial Board Wiley-Blackwell Advanced Biotechnology Book series (3. Edition), Editor-in-Chief Cell Systems, Editorial Board
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1999 1999-2019 1999-2019 2000-2018 2001- 2001-2019 2004- 2008- 2009- 2010- 2012- 2013- 2015-2020 2015-2018 2015-	Chemical Engineering Science, Guest editor of special volume Metabolic Engineering, Editorial Board (1999-2002), Assoc. Editor (2003-2019), Editor-in-Chief (2018-2019) Applied Microbiology and Biotechnology, Editorial Board Bioprocess and Biosystems Engineering, Assoc. Editor (2000-2007), Editorial Board (2007-2018) Biotechnology and Bioengineering, Assoc. Editor FEMS Yeast Research, Editorial Board (2001-2007), Assoc. Editor (2007-2019), Editor-in-Chief (2011-2019) Journal of Industrial Microbiology and Biotechnology, Editorial Board (2004-2010), Senior Editor (2010-2015), Editorial Board (2015-) Advances in Biochemical Engineering/Biotechnology, Editorial Board Microbial Cell Factories, Advisory Board Microbial Biotechnology, Editorial Board Biotechnology Journal, Editorial Board ACS Synthetic Biology, Editorial Board Wiley-Blackwell Advanced Biotechnology Book series (3. Edition), Editor-in-Chief Cell Systems, Editorial Board Scientific Reports, Editorial Board Scientific Reports, Editorial Board Synthetic and Systems Biotechnology, Editorial Board
1999 1999-2019 1999-2019 2000-2018 2001- 2001-2019 2004- 2008- 2009- 2010- 2012- 2013- 2015-2020 2015-2018 2015- 2016-2018	Chemical Engineering Science, Guest editor of special volume Metabolic Engineering, Editorial Board (1999-2002), Assoc. Editor (2003-2019), Editor-in-Chief (2018-2019) Applied Microbiology and Biotechnology, Editorial Board Bioprocess and Biosystems Engineering, Assoc. Editor (2000-2007), Editorial Board (2007-2018) Biotechnology and Bioengineering, Assoc. Editor FEMS Yeast Research, Editorial Board (2001-2007), Assoc. Editor (2007-2019), Editor-in-Chief (2011-2019) Journal of Industrial Microbiology and Biotechnology, Editorial Board (2004-2010), Senior Editor (2010-2015), Editorial Board (2015-) Advances in Biochemical Engineering/Biotechnology, Editorial Board Microbial Cell Factories, Advisory Board Microbial Biotechnology, Editorial Board Microbial Biotechnology, Editorial Board ACS Synthetic Biology, Editorial Board Wiley-Blackwell Advanced Biotechnology Book series (3. Edition), Editor-in-Chief Cell Systems, Editorial Board Scientific Reports, Editorial Board Scientific Reports, Editorial Board Synthetic and Systems Biotechnology, Editorial Board PLOS Computational Biology, Associate Editor (2016-2018)
1999 1999-2019 1999-2019 2000-2018 2001- 2001-2019 2004- 2008- 2009- 2010- 2012- 2013- 2015-2020 2015-2018 2015- 2016-2018 2016-	Chemical Engineering Science, Guest editor of special volume Metabolic Engineering, Editorial Board (1999-2002), Assoc. Editor (2003-2019), Editor-in-Chief (2018-2019) Applied Microbiology and Biotechnology, Editorial Board Bioprocess and Biosystems Engineering, Assoc. Editor (2000-2007), Editorial Board (2007-2018) Biotechnology and Bioengineering, Assoc. Editor FEMS Yeast Research, Editorial Board (2001-2007), Assoc. Editor (2007-2019), Editor-in-Chief (2011-2019) Journal of Industrial Microbiology and Biotechnology, Editorial Board (2004-2010), Senior Editor (2010-2015), Editorial Board (2015-) Advances in Biochemical Engineering/Biotechnology, Editorial Board Microbial Cell Factories, Advisory Board Microbial Biotechnology, Editorial Board Biotechnology Journal, Editorial Board ACS Synthetic Biology, Editorial Board Wiley-Blackwell Advanced Biotechnology Book series (3. Edition), Editor-in-Chief Cell Systems, Editorial Board Scientific Reports, Editorial Board Synthetic and Systems Biotechnology, Editorial Board PLOS Computational Biology, Associate Editor (2016-2018) Current Opinion of Systems Biology, Editorial Board
1999 1999-2019 1999-2019 2000-2018 2001- 2001-2019 2004- 2008- 2009- 2010- 2012- 2013- 2015-2020 2015-2018 2015- 2016-2018 2016- 2016-	Chemical Engineering Science, Guest editor of special volume Metabolic Engineering, Editorial Board (1999-2002), Assoc. Editor (2003-2019), Editor-in-Chief (2018-2019) Applied Microbiology and Biotechnology, Editorial Board Bioprocess and Biosystems Engineering, Assoc. Editor (2000-2007), Editorial Board (2007-2018) Biotechnology and Bioengineering, Assoc. Editor FEMS Yeast Research, Editorial Board (2001-2007), Assoc. Editor (2007-2019), Editor-in-Chief (2011-2019) Journal of Industrial Microbiology and Biotechnology, Editorial Board (2004-2010), Senior Editor (2010-2015), Editorial Board (2015-) Advances in Biochemical Engineering/Biotechnology, Editorial Board Microbial Cell Factories, Advisory Board Microbial Biotechnology, Editorial Board Biotechnology Journal, Editorial Board Biotechnology Journal, Editorial Board Wiley-Blackwell Advanced Biotechnology Book series (3. Edition), Editor-in-Chief Cell Systems, Editorial Board Scientific Reports, Editorial Board Synthetic and Systems Biotechnology, Editorial Board PLOS Computational Biology, Associate Editor (2016-2018) Current Opinion of Systems Biology, Editorial Board Applied and Environmental Microbiology, Editorial Board
1999 1999-2019 1999-2019 2000-2018 2001- 2001-2019 2004- 2008- 2009- 2010- 2012- 2013- 2015-2020 2015-2018 2015- 2016-2018 2016-	Chemical Engineering Science, Guest editor of special volume Metabolic Engineering, Editorial Board (1999-2002), Assoc. Editor (2003-2019), Editor-in-Chief (2018-2019) Applied Microbiology and Biotechnology, Editorial Board Bioprocess and Biosystems Engineering, Assoc. Editor (2000-2007), Editorial Board (2007-2018) Biotechnology and Bioengineering, Assoc. Editor FEMS Yeast Research, Editorial Board (2001-2007), Assoc. Editor (2007-2019), Editor-in-Chief (2011-2019) Journal of Industrial Microbiology and Biotechnology, Editorial Board (2004-2010), Senior Editor (2010-2015), Editorial Board (2015-) Advances in Biochemical Engineering/Biotechnology, Editorial Board Microbial Cell Factories, Advisory Board Microbial Biotechnology, Editorial Board Biotechnology Journal, Editorial Board ACS Synthetic Biology, Editorial Board Wiley-Blackwell Advanced Biotechnology Book series (3. Edition), Editor-in-Chief Cell Systems, Editorial Board Scientific Reports, Editorial Board Synthetic and Systems Biotechnology, Editorial Board PLOS Computational Biology, Associate Editor (2016-2018) Current Opinion of Systems Biology, Editorial Board

Teaching

2019-

Jens Nielsen has organized more than 15 advanced courses on metabolic engineering and systems biology in Denmark, Sweden, Thailand, China and Chile, and he has been teaching in several different courses at all levels in the areas of biotechnology, fermentation technology, bioreaction engineering, metabolic engineering and systems biology. Currently examiner of the MSc courses KMG060 Systems Biology and KKR063 Metabolic Engineering at Chalmers.

Frontiers in Chemical Science and Engineering, Editorial Board

Prof Nielsen has extensive experience with developing, organizing and running new courses and he has been actively involved in the design of new teaching programs at both the BSc and MSc level in the field of biotechnology and systems biology.

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Main supervisor of graduated PhD students	85
Main supervisor of <i>current</i> PhD students	17
Examiner of <i>current</i> PhD students	7
Co-supervisor of graduated PhD students (including visiting PhD students and as Examiner)	49
Former affiliated post docs	96
Current affiliated post docs and senior researchers	13

Business Experience	
1992-	Collaboration with industry; collaborated with more than 15 different companies in Austria,
	Denmark, France, Germany, The Netherlands, Sweden, Switzerland and USA. Cumulative funding
	from industry to my research group exceeds 30 MSEK.
1996-	Consultant for several internationally leading biotech and pharmaceutical companies
1997-2001	N&N Biotechn ApS, Denmark, Founder and CEO (acquired by Fluxome A/S)
2002-2005	Symbion Venture Capital, Denmark, Member of Scientific Advisory Board
2002-2012	Fluxome A/S, Denmark (major activities acquired by Evolva SA in 2012); A yeast metabolic
	engineering company. Founder and involved in raising >25 MEUR in capital, CEO (2002-2004), CSO
	(2002-2008), Member of BoD (2002-2005 & 2008-2012), Chairman of SAB (2008-2012). The
	company brought yeast produced resveratrol to the market.
2002-2007	Gothia Yeast Solutions, Sweden, Member of SAB
2006-2011	MycoTeQ A/S, Denmark. An antibiotics discovery company. Founder and Chairman of BOD; Raised
	about 1 MEUR in capital, one novel antibiotic identified
2008-2010	GlycoFi, Inc., USA, Member of SAB
2008-2015	Genomatica, Inc., USA, Member of SAB
2011-2018	MetaboGen AB, Sweden. A human gut microbiome company. Founder and Member of BoD; Raised
	>2 MEUR in capital. Sold to Biogaia AB in 2018
2013-2018	Evolva SA, Switzerland, Member of SAB
2014-	Biopetrolia AB, Sweden. A yeast synthetic biology company. Founder and Chairman of BoD; Raised
	>1 MEUR in soft funding and through research collaborations.
2014-2018	Novogy Inc., USA, Member of SAB
2017-	Elypta AB, Sweden. A cancer diagnostic company. Founder, Chairman of BoD (2017-2018) and
	member of BoD (2018-). Raised >13 MEUR in VC capital and soft funding.
2019-	Chrysea Labs Inc., Ireland. A yeast synthetic biology company. Raised >9 MEUR in VC capital.

Organization of Conferences Organization of Conferences

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1990-	Member of organizing and scientific committee of more than 50 conferences
2000	ESBES3, Denmark, Chairman (~300 delegates)
2002	Analysis of Microbial Cells at the Single Cell Level, Denmark, Co-Chair (~100 delegates)
2002	Metabolic Engineering IV, Italy, Chairman (~250 delegates)
2004	European Conference on Fungal Genetics VI, Denmark, Co-Chair (~800 delegates)
2005	ECB12, Denmark, Chairman of Scientific Committee (~1200 delegates)
2008	ICSB2008, Sweden, Member of Organizing Committee (~1000 delegates)
2010	FEBS2010, Sweden, Member of Organizing Committee (~2000 delegates)
2010	Industrial Systems Biology 2010, Sweden, Chairman (~200 delegates)
2011	Key Symposium on Systems Medicine, Sweden, Chairman (~100 delegates)
2013	Copenhagen Bioscience Conference, Denmark, Co-Chairman (~150 delegates)
2015	Copenhagen Bioscience Conference, Denmark, Chairman (~150 delegates)
2017	Metabolic Engineering Summit, Beijing, China (~600 delegates)
2019	Copenhagen Bioscience Conference, Denmark, Chairman (~150 delegates)