Curriculum vitae JENS NIELSEN

Department of Biology and Biological Engineering, Chalmers University of Technology, Kemigården 4, SE-412 96 Gothenburg, Sweden

Tel: +46 (0) 31 772 3804; Fax: +46 (0) 31 772 3801; E-mail: nielsenj@chalmers.se

Personal information

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

Citizenship: Danish

ORCID ID: 0000-0002-9955-6003

Education and degrees

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

rositions	
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-	Professor, Department of Chemical and Biological Engineering, Chalmers, Sweden
2011-	Professor & Scientific Director, Novo Nordisk Foundation Centre for Biosustainability, DTU,
	Denmark
2012-	Adjunct Professor, Department of Biotechnology, Royal Institute of Technology (KTH), Sweden
2013-	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)
2016-	Adjunct Professor, Beijing University of Chemical Technology (BUCT), China

Academic Appointments and Merits

Academic Appointments and interits	
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-	SAB Member, Netherlands Institute for Systems Biology, The Netherlands
2010-2016	Director Area of Advance Life Science, Chalmers University of Technology, Sweden
2010-	Member of World Council for Industrial Biotechnology, World Economic Forum
2011-2012	Member of Industrial Biotechnology and Bioenergy Strategy Advisory Panel, BBSRC, UK

2011	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- 2012	Founding president of International Metabolic Engineering Society, USA
2012-2013	4 th Most cited European researcher in the field of Mycology Evaluation panel of Academy of Finland, Finland
2012-2013	International Advisory Board, Thailands National Center for Genetic Engineering and
2012-2014	Biotechnology, Bangkok, Thailand
2014	Scientific Advisory Board, Energy Biosciences Institute, UC Berkeley, Berkeley, USA
2015-	Advisory Board, Gothia Forum, Sahlgrenska University Hospital, Gothenburg, Sweden
2016-	Director of Life Science , Beijing Advanced Center for Soft Matter Science and Engineering, Beijing
_010	University of Chemical Technology, China
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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 2016	Norblad-Exstrand Medalj, The Swedish Chemical Society, Sweden Gaden Award, American Chemical Society, USA
2016	Novozymes Prize, Novo Nordisk Foundation, Denmark
2010	Novozymes Frize, Novo Nordiski odnastion, Demilark
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Academies	
1997	Member of the Academy of Technical Sciences, Denmark
1997 2010	Foreign Associate of the National Academy of Engineering, USA
1997 2010 2010	Foreign Associate of the National Academy of Engineering, USA Member of the Royal Danish Academy of Science and Letters, Denmark
1997 2010 2010 2010	Foreign Associate of the National Academy of Engineering, USA Member of the Royal Danish Academy of Science and Letters, Denmark Member of the Royal Swedish Academy of Engineering Sciences, Sweden
1997 2010 2010 2010 2011	Foreign Associate of the National Academy of Engineering, USA Member of the Royal Danish Academy of Science and Letters, Denmark Member of the Royal Swedish Academy of Engineering Sciences, Sweden College of Fellows of American Institute for Medical and Biological Engineering, USA
1997 2010 2010 2010 2011 2012	Foreign Associate of the National Academy of Engineering, USA Member of the Royal Danish Academy of Science and Letters, Denmark Member of the Royal Swedish Academy of Engineering Sciences, Sweden College of Fellows of American Institute for Medical and Biological Engineering, USA Member of Royal Society of Arts and Sciences in Gothenburg, Sweden
1997 2010 2010 2010 2011 2012 2012	Foreign Associate of the National Academy of Engineering, USA Member of the Royal Danish Academy of Science and Letters, Denmark Member of the Royal Swedish Academy of Engineering Sciences, Sweden College of Fellows of American Institute for Medical and Biological Engineering, USA Member of Royal Society of Arts and Sciences in Gothenburg, Sweden Fellow of the American Academy of Microbiology, USA
1997 2010 2010 2010 2011 2012	Foreign Associate of the National Academy of Engineering, USA Member of the Royal Danish Academy of Science and Letters, Denmark Member of the Royal Swedish Academy of Engineering Sciences, Sweden College of Fellows of American Institute for Medical and Biological Engineering, USA Member of Royal Society of Arts and Sciences in Gothenburg, Sweden
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1997 2010 2010 2010 2011 2012 2012 2014 Other Honors 1995	Foreign Associate of the National Academy of Engineering, USA Member of the Royal Danish Academy of Science and Letters, Denmark Member of the Royal Swedish Academy of Engineering Sciences, Sweden College of Fellows of American Institute for Medical and Biological Engineering, USA Member of Royal Society of Arts and Sciences in Gothenburg, Sweden Fellow of the American Academy of Microbiology, USA Member of the Royal Swedish Academy of Sciences, Sweden Fulbright Fellow, USA
1997 2010 2010 2010 2011 2012 2012 2014 Other Honors 1995 2002	Foreign Associate of the National Academy of Engineering, USA Member of the Royal Danish Academy of Science and Letters, Denmark Member of the Royal Swedish Academy of Engineering Sciences, Sweden College of Fellows of American Institute for Medical and Biological Engineering, USA Member of Royal Society of Arts and Sciences in Gothenburg, Sweden Fellow of the American Academy of Microbiology, USA Member of the Royal Swedish Academy of Sciences, Sweden Fulbright Fellow, USA Sunner Memorial Lecture, Lund University, Sweden
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Publications, Patents, Presentations and Citations

Web of Science: H-factor of 71; >21,000 citations and >2,900 citations in 2015 Google Scholar: H-factor of 95; >39,000 citations and >22,500 citations since 2011 Web of Science Highly Cited Researcher in 2015 and 2016 473 **Original Papers in Peer Reviewed Journals** 83 **Review Papers in Peer Reviewed Journals** 23 Commentaries in peer reviewed journals 45 **Book Contributions** 3 Text books: Bioreaction Engineering Principles (1994,2003,2011) (English & Chinese), Metabolic Engineering (1998) (English, Chinese & Japanese), Metabolome Analysis (2007) 1 Monograph 3 **Edited books** 38 Issued patents (8 patent families) 30 Patent applications (15 patent families) 190 Invited oral presentations at international conferences 103 Invited seminars at universities and companies **Key Grants** 1993-1996 Nordic Project on Physiological Engineering, Nordic Industrial Fund (>20 MDKK) 4 Projects, EU Framework VI (about 8 MDKK) 1995-2002 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 Genome sequencing of A. balhamycina, Lundbech Foundation (1.2 MDKK) 2005-2008 Yeast Systems Biology Network, EU Framework VI (1.3 MEUR) 2006-2008 Yeast in No Gravity, European Space Agency (2.7 MDKK) 2007-2009 Systems Biology: From model organisms to application, NORDFORSK (0.8 MNOK) 2008-2011 Systems Biology as a Driver for Industrial Biotechnolog, EU Framework VII (1 MEUR) 2008-2013 **UNICELLSYS**, EU Framework VII (5.4 MSEK) 2009-2011 Regulation of lipid metabolism in eukaryotic cells, Vetenskapsrådet (3 MSEK) 2010-2014 Industrial Systems Biology, European Research Council (2.5 MEUR) 2010-2013 Systems Biology of Metabolism, NORDFORSK (0.6 MNOK) 2011-2021 Wallenberg Scholar, Knut and Alice Wallenberg Foundation (15 MSEK+15 MSEK) 2011-2020 NNF Center for Biosustainability, Novo Nordisk Foundation (700 MDKK) 2012-2015 Engineering of Acetyl-CoA Metabolism in Yeast, Vetenskapsrådet (6.4 MSEK) 2012-2014 Platform for studying metagenomes and metabolic diseases, Torsten Söderbergs Stiftelse (5 MSEK) 2012-2017 BioVacSafe, Innovative Medicines Initiative, EU (7.0 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 Foundation (1 MUSD) 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 (32 MSEK) 2016-2019 Genome-scale transcriptional regulation in yeast, Vetenskapsrådet (4.4 MSEK) 2016-2021 **Gut-microbiome effect on CVD**, Novo Nordisk Foundation (9 MDKK)

Editorial Activities

1999	Chemical Engineering Science, Guest editor of special volume
1999-	Metabolic Engineering, Editorial Board (1999-2002), Assoc. Editor (2003-)
1999-	Applied Microbiology and Biotechnology, Editorial Board

2000-	Bioprocess and Biosystems Engineering, Assoc. Editor (2000-2007), Editorial Board (2007-)
2001-	Biotechnology and Bioengineering, Assoc. Editor
2001-	FEMS Yeast Research, Editorial Board (2001-2007), Assoc. Editor (2007-2010),
	Editor-in-Chief (2011-)
2004-2015	Journal of Industrial Microbiology and Biotechnology, Editorial Board (2004-2010),
	Senior Editor (2010-2015)
2004-	Advances in Biochemical Engineering/Biotechnology, Editorial Board
2008-	Microbial Cell Factories, Advisory Board
2009-	Microbial Biotechnology, Editorial Board
2010-	Biotechnology Journal, Editorial Board
2012-	ACS Synthetic Biology, Editorial Board
2013-	Wiley-Blackwell Biotechnology Book series (3. Edition), Editor-in-Chief
2015-	Cell Systems, Editorial Board
2015-	Scientific Reports, Editorial Board
2015-	Synthetic and Systems Biotechnology, Editorial Board
2016-	Current Opinion of Systems Biology, Editorial Board
2016-	Applied and Environmental Microbiology, Editorial Board

Teaching

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

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.

Mentoring

Main supervisor of <i>graduated</i> PhD students	71	
Main supervisor of <i>current</i> PhD students	19	
Co-supervisor of graduated PhD students (including visiting PhD students)	39	
Current co-supervisor of PhD students	1	
Former affiliated post docs	66	
Current affiliated post docs and senior researchers	26	

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 (acquired by Evolva SA in 2012); Founder (raised more than 25 MEUR in
	capital), CEO (2002-2004), CSO (2002-2008), Member of BoD (2008-2012), Chairman of SAB (2008-
	2012)
2002-2007	Gothia Yeast Solutions, Sweden, Member of SAB
2006-2011	MycoTeQ A/S, Denmark, Founder and Chairman of BOD (raised about 1 MEUR in capital, one novel antibiotic identified)
2008-2010	GlycoFi, Inc., USA, Member of SAB
2008-	Genomatica, Inc., USA, Member of SAB
2011-	MetaboGen AB, Sweden, Founder and Member of BoD
2013-	Evolva SA, Switzerland, Member of SAB
2014-	Biopetrolia AB, Sweden, Founder and Chairman of BoD
2014-	Novogy, Inc., USA, Member of SAB

Organization of Conferences Organization of Conferences

1990-Member of organizing and scientific committee of more than 35 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)