

Curriculum vitae

D. PETRANOVIC, PhD, MBA

Associate Professor in Cell and Molecular Biology

Department for Biology and Biological Engineering, Chalmers University of Technology, Sweden

Additional information: Petranovic Lab website (www.sysbio.se)

Academic levels

1999	Bsc and M.Sc. in Molecular Biology, Faculty of Science and Mathematics, University of Zagreb, Croatia (92% average grade, and maximal grade 5.00 for the final thesis and exam)
2004	Ph.D. <i>summa cum laude</i> in Molecular Microbiology, University Paris XI, France
2012	Docent, Chalmers University of Technology, Gothenburg, Sweden
2013	Tenure, Chalmers University of Technology, Gothenburg, Sweden
2018	Executive Master of Business Administration (Executive MBA), School of Law, Business and Economics, Gothenburg University, Sweden

Additional education and professional degrees

1994	Certified French Teacher, Alliance française, Zagreb, Croatia
2006	Pedagogical degree for teaching at university level, Technical University of Denmark
2015	Course in Supervision and mentoring of PhD students, Chalmers, Sweden
2015	Course in Intercultural communication, Chalmers, Sweden
2016	Course in Cross-cultural organization and leadership, Chalmers, Sweden
2016	Mentorship course in innovation, Chalmers, Sweden
2016	Course on utilization, Chalmers, Sweden
2017	Course in inclusiveness and diversity, Volvo Cars, Sweden

Employments

1997-1998	Teaching Assistant, Faculty of Science and Mathematics, University of Zagreb, Croatia
2000-2004	PhD student, Université Paris XI and INRA, Paris, France
2004-2007	Post-doc, Molecular Physiology and Genetics, Technical University of Denmark, Lyngby, Denmark
2007-2008	Post-doc, Center for Microbial Biotechnology, Technical University of Denmark, Lyngby, Denmark
2008-2012	Assistant Professor (tenure track), Chalmers University of Technology, Gothenburg, Sweden
2013-...	Associate Professor (tenured), Chalmers University of Technology, Gothenburg, Sweden

Academic visits

2001-2002	Visiting PhD student at Technical University of Denmark (Peter R Jensen Lab)
2006	Study visit at Harvard University, USA (Rich Losick Lab)
2012	Sabbatical at MIT/Whitehead Institute for Biomedical Research, USA (Susan Lindquist Lab)
2018	Sabbatical at MIT/Koch Institute for Integrative Cancer Research, USA (Robert Langer's Lab)
2018	Sabbatical at CalTech/Chemistry and Chemical Engineering, USA (Frances Arnold's Lab)

Teaching

1997-1998	Biochemistry I & II, Faculty of Science and Mathematics, University of Zagreb, Zagreb, Croatia
2004-2007	Molecular Genetics, Technical University of Denmark, Lyngby, Denmark
2004-2007	Molecular Biotechnology, Technical University of Denmark, Lyngby, Denmark
2009-2018	visiting lecturer in various courses at Chalmers University of Technology, Gothenburg, Sweden
2010-2018	Teacher and Examiner "Introduction to Molecular and Cell Biology" at Chalmers
2011-2014	Teacher and Examiner "Molecular and Cell Biology 2", at Chalmers
2016, 2017	Guest lecturer at The Gothenburg University School of Business, Law and Economics, Sweden

Awards

2013	Chalmers Pedagogical Award for the best teacher at the University.
2016	Chalmers Innovation Award, for the best innovation and utilization project
2017	Female CEO Excellence Awards 2017: Public Education CEO of the Year 2017 - Sweden & Best Scientific Education NPO - Sweden

Education Management

Since 2009	Advisor to the SBE@Chalmers, undergraduate organization for Biological Engineering.
2015	Member of the Committee for development of Msc programs at Chalmers
2015	Director of the Bioscience Doctoral School at Chalmers, Sweden
2015	Member of the Committee for development of doctoral education at Chalmers

Main supervisor of post-doctoral fellows, PhD students and undergraduate students

Olena Ishchuk	Post-doc
Xin Chen	Post-doc
Facundo Muniz	Post-doc
Ana Joyce Munoz	PhD student
Yanyan Wang	PhD student
Veronica Gast	PhD student
<i>Marija Cvijovic</i>	<i>Former post-doc, currently assistant professor at Gothenburg University.</i>
<i>Andrea Neiss Molt</i>	<i>Former post-doc, currently researcher at BASF, Germany</i>
<i>Jin Hou</i>	<i>Former post-doc, currently assistant professor at Shandong University, China</i>
<i>Eugenio Meza</i>	<i>Former post-doc, currently entrepreneur in Mexico</i>
<i>José L. Martínez</i>	<i>Former post-doc, currently assistant professor at Danish Technical University</i>
<i>Guokun Wang</i>	<i>Former post-doc, currently postdoc in Denmark</i>
<i>Kwanjeera Wanichthanarak</i>	<i>Former PhD student, now postdoc at UC Davis, USA</i>
<i>Magnus Johansson</i>	<i>Former PhD student, now teacher in Sweden</i>
<i>Arastoo Badoei Dalfard</i>	<i>Former visiting PhD student, now assistant professor in Iran</i>
<i>Tamara Suhm</i>	<i>Former visiting PhD student, now PhD student at Stockholm University</i>
<i>Asiyeh Jebbeli</i>	<i>Former visiting PhD student from Iran.</i>
<i>Marcin Sochacki</i>	<i>Former Msc student, now director at P&G, Poland</i>
<i>Nava Ghanarej</i>	<i>Former Msc student, now PhD student at Harvard Medical School</i>
<i>Laleh Kazemzadeh</i>	<i>Former Msc student, now PhD student in Dublin, Ireland.</i>
<i>Kumaravel Ponnandai Shanmugavel</i>	<i>Former MSc student, now PhD student at Chalmers, Sweden.</i>
<i>Stefina Milanova</i>	<i>Former MSc student, now PhD student at Karolinska, Sweden.</i>
<i>Johan Björkeröth</i>	<i>Former Msc student, now PhD student at Chalmers, Sweden.</i>
<i>Elisa Alamo Garcia-Donas</i>	<i>Former Msc student, now back in Spain.</i>
<i>My Nyblom</i>	<i>Former Msc student, now PhD student at Chalmers</i>
<i>Aafke van Aalst</i>	<i>Former Msc student, now PhD student in TU Delft</i>
<i>Doris Zoric</i>	<i>Former Msc student from Croatia</i>
<i>Oscar Svensson</i>	<i>Former Bsc student, now Msc student at Chalmers</i>
<i>Avlant Nilsson</i>	<i>Former Bsc student, now PhD student at Chalmers</i>
<i>Jacob Kindbom</i>	<i>Former Bsc student, now technical employee at Chalmers</i>
<i>Nutvadee Wongtosrad</i>	<i>Former internship student, now employee as financial adviser in Sweden</i>
<i>Raya Saleh</i>	<i>Former internship student, now PhD student at Karolinska, Sweden</i>
<i>Céline Aubry</i>	<i>Former internship student, now Msc student in Japan</i>
<i>Matthew Allen</i>	<i>Former internship student, now PhD student in USA</i>
<i>Almut Luetge</i>	<i>Former internship student, back in Germany</i>
<i>Cristiano Santos</i>	<i>Former internship student, now PhD student at Gothenburg University.</i>

<i>Jake Garside</i>	<i>Former internship student, back in UK.</i>
<i>Sophia Leussink</i>	<i>Former internship student, back in Germany</i>
<i>Nathalie Laforge</i>	<i>Former internship student, back in France</i>
<i>Saki Matsumoto</i>	<i>Former internship student, back in France</i>
<i>Osman Eze Oztekin</i>	<i>Former internship student, moved to Ireland</i>

Mentoring of undergraduate, PhD students and post-doctoral fellows as co-supervisor

Mikael Molin	Postdoc
Kumaravel Ponnandai Shanmugavel	PhD student
<i>Jichen Bao</i>	<i>Former PhD student, now postdoc in Finland</i>
<i>Amir Feizi</i>	<i>Former PhD student, now postdoc in Sweden</i>
<i>Zihe Liu</i>	<i>Former PhD student, now postdoc in Singapore</i>
<i>Fredrik Karlsson</i>	<i>Former PhD student, now Product Manager at Metabogen, Sweden</i>
<i>Lifang Liu</i>	<i>Former PhD student, now postdoc in Australia</i>
<i>Mingtao Huang</i>	<i>Former post-doc, now PI in China</i>
<i>Keith Tyo</i>	<i>Former post-doc, now Assistant professor at Northwestern, USA</i>
<i>Luis Caspeta</i>	<i>Former post-doc, now Assistant professor in Mexico</i>
<i>Antonio Roldao</i>	<i>Former post-doc, now entrepreneur in Portugal</i>
<i>Mark Bisschops</i>	<i>Former post-doc, now scientist in Netherlands</i>
<i>Frederik Eisele</i>	<i>Former post-doc</i>

Additionally, examiner for 7 Chalmers Msc students who performed their research work in other labs or companies and advisor to two PhD students at Karolinska Institute, Stockholm.

Innovation

2015-2016	Collaboration with the Chalmers business school and patenting of stress-resistant strains
2015-2016	Selected for the Mentor for Research program, under the Chalmers Innovation office. Mentor: Karin Wingstrand, former vice-president and head of clinical development at AstraZeneca.

Memberships

Since 1994	Member of the Croatian Society for Genetics Member of the Croatian Society for Biochemistry and Molecular Biology (section of the FEBS and IUBMB)
Since 2010	Member of the International Society for Metabolic Engineering (SBE and AIChE)

Editorial tasks

	<i>Ad hoc</i> reviewer for many international journals.
2012	Guest Editor FEMS Yeast Research
2013-2018	Academic Editor of Microbial Cell
2013-2016	Editorial Board FEMS Yeast Research
2014-2018	Associate Editor Quarterly Reviews in Biophysics Discovery
2016-2018	Editor FEMS Yeast Research

Scientific evaluations and expertise

2009	Expert for evaluation of proposals for the French National Research Agency (ANR)
2010	Expert for evaluation of proposals for the French National Research Agency (ANR)
2010	Expert for evaluation of proposals for the South African Funding Agency

2010-2018	Member of 16 Theses committees in Sweden (Chalmers University of Technology, Göteborg University, Lund University)
2010-2011	Evaluator of two theses in South Africa (Stellenbosch University).
2011	Expert for evaluation of proposals for the French Governmental program for Scientific Excellence (LabEX)
2012	Expert for evaluation of proposals for the Research Foundation Flanders (FWO), Belgium
2013	Expert for evaluation of proposals for SystemsX, Swiss Governmental program for Systems Biology
2015	Expert for evaluation of tenure at KU Leuven, Belgium.
2016	Expert for evaluation of proposals for the Research Foundation Flanders (FWO), Belgium Expert for evaluation of proposals for the Israeli Science Foundation (ISF) Thesis committee expert TU Delft, Netherlands Thesis committee examiner, INA-PG, Paris, France
2018	Expert for evaluation of proposals for the US-Israel Binational Science Foundation Expert evaluator of proposals for the Austrian Science Fund Expert evaluator for Danish Technical University

Positions of trust

2012-2014	Committee member of the Jay Bailey Award for Metabolic Engineering
2013-2018	Co-Chair of the “Functional genomics section” of the European Federation for Biotechnology (EFB), responsible for the “Yeast section”.
2013-2014	Faculty deputy Chair at the Department of Chemical and Biological Engineering, Chalmers University
2014-2017	Member of the Scientific Advisory Board of “Universeum” (Nordic region’s largest Science Centre), Sweden.
2015-2018	Member of the Scientific Advisory Board of “Innovatum Science Center”, Sweden.
2015	Elected Faculty representative at the department’s Advisory Council, Chalmers, Sweden.
2016-2019	Elected Faculty deputy at the department’s Advisory Council, Chalmers, Sweden.
2016-2018	Swedish representative for European Federation of Biotechnology (EFB)
2017-2018	founding member of the departmental equality committee at the Department of Biology and Biological Engineering at Chalmers University.

Management

2007-2009	Project manager for “Yeast Systems Biology Network” YSBN (EU-funded project in the 6th framework, over 20 partner labs)
2007-2010	Project manager for “NordForsk network” (a Nordic network, 10 partner labs)
2008-2011	Project manager for “Systems Biology as a Driver for Industrial Biotechnology” SYSINBIO (EU-funded projects in the 7th framework, over 20 partner labs).
2010-2012	Project manager of “NordSysBio” (Nordic network for systems biology of metabolism, 9 partner labs)
2012-2018	CEO Global Molecular Frontiers Foundation, Chalmers University of Technology and Royal Academy of Sciences (KVA), Stockholm, Sweden.

Session chairing and awards judging at international conferences

2008	Organizing committee of the International Conference for Systems Biology ICSB2008 (Gothenburg, Sweden).
2010	Poster evaluation judge at PYFF4, Rotterdam
2010	Organizing committee and session chair at the Conference on Systems Biology of Microorganisms (Paris, France).
2010	Organizing committee and session chair at the Industrial Systems Biology (Gothenburg Life Science Conference XI), (Gothenburg, Sweden).

- 2011 Co-organizer and co-chair of System and Translational Medicine (Stockholm, Sweden).
 2015 Member of the scientific committee, session chair and poster judge at the 11th International Meeting of Yeast Apoptosis (IMYA XI), in Porto, Portugal.

Chairing of international conferences

- 2013 Organizer and co-chair of the Molecular Frontiers Symposium in May, at the Royal Swedish Academy of Sciences, (Stockholm, Sweden).
 2014 Organizer and Chair of the 10th International Meeting of Yeast Apoptosis (IMYA X), (Gothenburg, Sweden).
 2014 Organizer and co-chair of the Molecular Frontiers Symposium in May, at the Royal Swedish Academy of Sciences (KVA), (Stockholm, Sweden).
 2014 Organizer and co-chair of the Molecular Frontiers Symposium in November, at Chalmers (Gothenburg, Sweden).
 2015 Organizer and co-chair of the Nobel Workshop and the Molecular Frontiers Symposium "The Amazing Week", May 4th -8th, at Chalmers, (Gothenburg, Sweden).
 2016 Organizer at co-chair of the Molecular Frontiers Symposium "Healthy Aging", at Chalmers, (Gothenburg, Sweden). Co-organized with Jan-Olof Jacke, CEO of AstraZeneca Sweden.
 2018 Co-organizer, session co-chair and poster evaluator at the Metabolic Engineering Conference 12, June 24-28 Munich.
 2018 Member of the Scientific Committee, Istanbul Technical University Molecular Biology and Genetics Student Club

Invited lectures at specialized international conferences

- 2012 Invited speaker at the 9th International Meeting on Yeast Apoptosis (IMYA9), Rome, Italy.
 2013 Invited speaker at the Biotechnology Conference, Cancun, Mexico
 2015 Invited speaker at the Nobel Workshop "Frontiers in Molecular Sciences", Göteborg, Sweden.
 2015 Invited speaker at the Symposium on Networks and Pathways, Crete, Greece
 2015 Invited speaker at the 11th International Meeting on Yeast Apoptosis (IMYA11), Porto, Portugal.
 2015 Invited speaker at the Volkswagen Foundation Symposium, in Hannover, Germany.
 2015 Invited lecture at the Dalian Institute for Chemistry, Chinese Academy of Sciences (CAS), China
 2016 Invited speaker at the 14th International Congress on Yeasts (ICY14), Awaji Island, Japan.
 2016 Invited plenary at the 10th International Conference of Natural and Life Sciences, COINS, Lithuania.
 2016 Invited speaker at the 13th International Symposium on Genetics of Industrial Microorganisms (GIM2016), Wuhan, China.
 2016 Invited speaker at the Biotechnology Days, Göteborg, Sweden
 2017 Invited speaker at the 12th International Meeting on Yeast Apoptosis (IMYA12), Bari, Italy.
 2017 Invited speaker at the ISSY33 International Specialized Symposium on Yeasts, Cork, Ireland.
 2018 Invited lecturer at Shandong University, China
 2018 Invited keynote at IMYA 13 Conference in KU Leuven

Public outreach

- 2001-2003 Moderator for the Science section of the largest Croatian forum online (more than 2 million unique participants, more than 6 million visits each month, around 350 000 discussion themes)
 Since 2010 Advisor and co-organizer of SBE@Chalmers (Society for Biological Engineering, student chapter at Chalmers)
 2014 Invited speaker for the Symposium in honor of Barbro Osher, Göteborg, Sweden
 2014 Interview for the SVT national morning TV-news, Sweden
 2014 Interview with Göteborgs Posten, Sweden
 2015 Invited speaker for Chalmers Alumni, Göteborg, Sweden

- 2016 Co-organizer of Inspiration Future Days (Futurdagarna) for high school students, Innovatum Science Center, Tröllhättan, Sweden
- 2016 Public speaker on the Nordstan square, at the Science festival (Vetenskapsfestivalen) in Göteborg, Sweden
- 2018 Invited speaker (3rd time) for the SBE@Chalmers open microphone nights

Grants

- 2000-2001 Competitive PhD Scholarship from the French Government
- 2001-2004 INRA PhD Scholarship, France
- 2008-2011 SYSINBIO, EU-funded coordination action on systems biology
- 2008-2012 Chalmers Foundation, Life Science initiative
- 2008-2013 UNICELLSYS, EU-funded integrated project on yeast systems biology
- 2009 Wallenberg Foundation Travel Grant
- 2010-2014 Chalmers Faculty Fund for yeast as a model for human diseases
- 2011-2020 Novo Nordisk Foundation Center for Biosustainability, funding for proteostasis, secretion and cell stress
- 2012-2018 As CEO of MFF raised more than 7 MSEK, in addition to grants for organization of symposia
- 2013 Kristina Stenborgs Stiftelse grant on yeast as a model for proteins in neurological diseases (PI)
- 2015-2020 SSF Grant on production of human hemoglobin in yeast (PI for Chalmers)
- 2017-2019 VR project on production of Cellulosome in yeast, collaboration China-Sweden (PI for Sweden)
- 2017-2022 SSF project on production of pharmaceutical proteins in yeast (co-PI)
- 2018-2023 Vinnova CellNova grant on biologicals in yeast (PI for Chalmers)