

## Curriculum vitae

D. PETRANOVIC PhD., 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](http://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

### Additional education

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
2016-2018	Executive MBA, School of Law, Business and Economics, Gothenburg University, 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
Since 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)

### 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
Since 2009...	Visiting lecturer in various courses at Chalmers University of Technology, Gothenburg, Sweden
Since 2010...	Teacher and Examiner "Introduction to Molecular and Cell Biology" at Chalmers
2011-2014	Teacher and Examiner "Molecular and Cell Biology 2", at Chalmers
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

**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**

Guokun Wang	Post-doc
Olena Ishchuk	Post-doc
Xin Chen	Post-doc
Ana Joyce Munoz	PhD student
Elisa Alamo Garcia-Donas	Msc student
Nathalie Laforge	Internship student
Saki Matsumoto	Internship 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>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 Jebbali</i>	<i>Former visiting PhD student from Iran.</i>
<i>Marcin Sochacki</i>	<i>Former Msc student, now director at P&amp;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 students, now PhD student at Chalmers, Sweden.</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>

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

Frederik Eisele	Post-doc
Jichen Bao	PhD student
Kumaravel Ponnandai Shanmugavel	PhD student
Mingtao Huang	<i>Former post-doc</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>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>

Additionally, examiner for 7 Chalmers Msc students who performed their research work in other labs or companies.

### 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)
2016	Member of the Science Advisory Board

### Editorial tasks

	<i>Ad hoc</i> reviewer for many international journals.
2012	Guest Editor FEMS Yeast Research
Since 2013...	Academic Editor of Microbial Cell
2013-2016	Editorial Board FEMS Yeast Research
Since 2014...	Associate Editor Quarterly Reviews in Biophysics Discovery
Since 2016...	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
Since 2010...	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

**Positions of trust**

- 2012-2014 Committee member of the Jay Bailey Award for Metabolic Engineering
- Since 2013... 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.
- Since 2015... 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.
- Since 2016... Swedish representative for European Federation of Biotechnology (EFB)

**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)
- Since 2012... CEO Global Molecular Frontiers Foundation, Chalmers University of Technology and Royal Academy of Sciences (KVA), Stockholm, Sweden.
- 2017 Nomination for the Female CEO Excellence Awards by CEO Monthly Magazine

**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 11<sup>th</sup> 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 10<sup>th</sup> 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 4<sup>th</sup> -8<sup>th</sup>, 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.

**Invited lectures at specialized international conferences**

2012	Invited speaker at the 9 <sup>th</sup> 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 11 <sup>th</sup> 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 14 <sup>th</sup> International Congress on Yeasts (ICY14), Awaji Island, Japan.
2016	Invited plenary at the 10 <sup>th</sup> International Conference of Natural and Life Sciences, COINS, Lithuania.
2016	Invited speaker at the 13 <sup>th</sup> International Symposium on Genetics of Industrial Microorganisms (GIM2016), Wuhan, China.
2016	Invited speaker at the Biotechnology Days, Göteborg, Sweden
2017	Invited speaker at the 12 <sup>th</sup> International Meeting on Yeast Apoptosis (IMYA12), Bari, Italy.
2017	Invited speaker at the ISSY33 International Specialized Symposium on Yeasts, Cork, Ireland.

**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; all data from 2010.)
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

**Grants**

2000-2001	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 (Co-PI, sole PI for Chalmers)
2017-2019	VR project on production of Cellulosome in yeast, collaboration China-Sweden (Co-PI, sole PI for Chalmers)
2017-2022	SSF project on production of pharmaceutical proteins in yeast (co-PI)
2018-2023	Vinnova CellNova grant on biologicals in yeast (Co-PI, PI for Chalmers)