

Curriculum vitae

Marija Cvijovic

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Current position	Assistant professor, University of Gothenburg, Sweden Parental leave: 2011 August - 2012 March (7 months) 2014 March - 2014 November (7 months)	April 11 2011
Previous positions	<i>Postdoc</i> , The Sahlgrenska Academy <i>Postdoc</i> , Chalmers University of Technology	Jan-April 2011 Aug 2008 – Dec 2010
Education	<i>Docent in Mathematical Biology</i> , University of Gothenburg, Sweden <i>PhD in Mathematics</i> , Max Planck Institute for Molecular Genetics and Free University, Berlin, Germany <i>M.Sc. Bioinformatics</i> , Chalmers University of Technology, Sweden <i>B.Sc. Mathematics</i> , University of Belgrade, Belgrade, Serbia	2014 2009 2005 2003
Additional training	2013 Leadership program for Assistant Professors (Sharing Insight Peter Lysell) 2013 Mentor4research (Kungl. Ingenjörsvetenskapsakademien)(one of eight finalists)	
Exchange Scientific Visits	Bordeaux University, LaBri , France Project Leaders: Macha Nikolski and David Sherman	2007, 2008
	Virginia Bioinformatics Institute, Blacksburg, USA Project Leaders: Pedro Mendes and Stefan Hoops	2006
Open-access software	BioMet ToolBox: http://www.sysbio.se/BioMet (500users/month) Yeast Cell Death database: http://www.ycelldeath.com/	
Grants	Most relevant Stiftelsen för Strategisk Forskning (SSF) Assistant Professor in applied mathematics Yeast Systems Biology Network Fellow DAAD scholarship – German Academic Exchange Service Marie Curie PhD Fellow	2014 2011 2008 2006 2005
	Other Lars Hierta Foundation Knut and Alice Wallenberg Foundation Travel grant FEBS YTF Grant Cold Spring Harbour Laboratory	2013 2009, 2010, 2012 2010 2007

Awards	Best poster Award 5 th Swedish Bioinformatics Workshop, Lund, Sweden	2004
Invited conference presentations	2012: 13 th International Conference on Systems Biology, Toronto, Canada Nordic Yeast Research Community Symposium, Göteborg, Sweden 2010: 35 th FEBS Congress, Göteborg, Sweden 2010: 2 nd Swedish Meeting on Mathematical Biology, Göteborg, Sweden 2009: 7 th International Meeting on Yeast Apoptosis, Graz, Austria 2008: 10 th International Conference on Systems Biology, Göteborg, Sweden	
Invited symposium presentations	2014: Symposium: Systems Biology and Systems Medicine in Gothenburg , Sweden and Europe 2013: Sweden – South Africa Symposium: From systems biology to metabolic engineering and synthetic biology, Stellenbosch, South Africa 2010: BaSysBio Meeting, Beaune, France 2009: ECUST Symposium on Systems Biology, Shanghai, China 2009: Mini Symposium: Systems Biology in Sweden, Stockholm, Sweden 2006: 1 st YSBN Workshop, Vienna, Austria 2006: Ageing Summer School, Spetses, Greece	
Popular science presentations	2013: Quest for the Fountain of Youth or why Gilgamesh should have studied math; <i>Academic Open Mic Night / SBE Student Chapter Chalmers</i>	
Review commissions	Biotechnology & Bioengineering, Bioinformatics, PLOS Genetics, Science, BMC Bioinformatics, Molecular Biology and Evolution, FEBS Journal, Advances in Systems Biology	
Commissions of trust	2014-ongoing: The International Society for Systems Biology – Foundation Chair 2013-ongoing: Gothenburg Centre for Systems Biology (GCSB) – CEO 2013-ongoing: EC funded Infrastructure for Systems Biology Europe (ISBE) (WP training and education) 2013 EC Human Brain Project Competitive Call – external reviewer 2011-ongoing: Gothenburg Bioinformatics Network (GOTBIN) – Steering Board Member 2008-2010: EC funded SYSINBIO (WP leader)	
Management / Organizational skills	2014: Workshop: Systems Biology Training and Education, Heidelberg, Germany Workshop: Systems Biology Training and Education, Göteborg 2013: Current Challenges in Systems Biology Workshop, Göteborg (organizing and scientific committee member) EUROMATH (session coordinator) 6 th International course on yeast Systems Biology (Scientific committee member) 2011: FutureSysBio Workshop on Defining Modeling Strategies, Göteborg (organizing and scientific committee member) 2010: 10th Swedish Bioinformatics Workshop, Göteborg (organizing committee member) 2010: FEBS International Course on Systems Biology of Metabolism (course proposal, coordination) 2010: 35 th FEBS congress, Göteborg (organizing committee member, workshop organizer)	
Pedagogic education	HPE103 Applied Analysis (5hp) HPE201 Supervision in postgraduate programmes (5hp)	2015 2013

HPE102 Teaching and learning in higher education 2 (5hp)	2013
HPE101 Teaching and learning in higher education 1 (5hp)	2012

Teaching

University of Gothenburg

PhD courses

Statistics for genome sciences, Fall 2013, 2014

Industrial perspectives on systems biology and bioinformatics, Spring 2013

7th International PhD Course in Yeast Systems Biology, Spring 2015

6th International PhD Course in Yeast Systems Biology, Spring 2013

5th International PhD Course in Yeast Systems Biology, Spring 2011

4th International PhD Course in Yeast Systems Biology, Spring 2009

Master courses

Experimental systems biology (BIO448), Spring 2014, 2015

Functional genomics and systems biology (BIO406), Fall 2012, 2013, 2014

Chalmers University of Technology

PhD courses

1st International Course on Systems Biology of Metabolism, Spring 2010

Metabolic Engineering and Systems Biology, Fall 2008

Master courses

Synthetic biology (KBT225), Spring 2014, 2015

Large Scale Genomics, Techniques and Analysis (MVE130), Spring 2011

Data acquisitions and Handling in Systems Biology (KMG060), Fall 2009,10

Undergraduate courses

Linjär algebra (TMV141), Spring 2015

NTNU, Trondheim, Norway

PhD course Introduction to Systems Biology, Fall 2008

Max Planck Institute for Molecular Genetics, Berlin, Germany

Master course Dynamic Modelling, Fall 2007

Supervision

PhD students

Niek Welkenhuysen (EC FP7 project ISOLATE)	2013 (ongoing, co-supervisor)
Sviatlana Shashkova (EC FP7 project ISOLATE)	2013 (ongoing, co-supervisor)
Frederik Boulund	2011 (ongoing, co-supervisor)
Kwanjeera Wanichthanarak	2010 (co-supervisor)

Master students (30 and 60 credit points)

Jens Persson (60cp)	2014/2015
Erik Ländström (60cp)	2014/2015
Mattias Backman (60cp)	2014/2015
Mathias Johnsson (60cp)	2014/2015
Riccardo Dainese (60cp)	2013/2014
(current position: PhD student at EPFL, Swiss)	
Robert Andersson (30cp)	2013
(current position: PhD student at University of Warwick, UK)	
Kwanjeera Wanichthanarak (30cp)	2009
(current position: post-doc at UC Davis, USA; previous position: PhD student at Chalmers)	

Laleh Kazemzadeh (30cp) 2010

(current position: PhD student at Digital Enterprise Research Institute (DERI), Ireland)

Project students (15 credit points)

Ajay Anantha	2013
Eva Sörenson	2013
Olle Elias	2012
Robert Andersson	2012

Publications

16. X. Yang, Y. Shen, E. Garre, X. Hao, D. Krumlinde, M. Cvijovic, C. Arens, T. Nyström, B. Liu, P. Sunnerhagen, Stress granule-defective mutants deregulate stress responsive transcripts, *PLoS Genet. Vol 10(11) (2014)*
15. S. Jia, Q. Yang, X. Hao, L. Larsson, J. Yang, X. Zhu, S. Malmgren-Hill, D. Höglund, **M. Cvijovic**, J. Fernandez-Rodriguez, J. Grantham, C.M. Gustafsson, B. Liu, T. Nyström, Essential genes of the SIR2 genetic interaction network required for asymmetrical inheritance of protein aggregates, *PLOS Genet. Vol 10 (7)(2014)*
14. L. Bendrioua, M. Smedh, J. Almquist, **M. Cvijovic**, M. Jirstrand, M. Goksor, C. B. Adiels, S. Hohamnn, Yeast AMP-Activated Protein Kinase Monitors Glucose Concentration Changes as well as Absolute Glucose Levels, *J. Biol. Chem* 289(18):12863-75 (2014)
13. **M.Cvijovic**[#], J. Almquist, J. Hagmar, S. Hohmann, H.-M. Kaltenbach, E. Klipp, M. Krantz, P. Mendes, S. Nelander, J. Nielsen, A. Pagnani, N. Przulj, A. Raue, J. Stelling, S. Stoma, F. Tobin, J. A. H. Wodke, R. Zecchina, M. Jirstrand Bridging the gaps in systems biology, *Molecular Genetics and Genomics* (2014)
12. J. Almquist, **M. Cvijovic**, V. Hatzimanikatis, J. Nielsen, M. Jirstrand, Kinetic Models in Industrial Biotechnology - Improving Cell Factory Performance, *Metabolic Engineering* 24C:38-60 (2014)
11. K. Wanichthanarak, **M. Cvijovic**[#], A. Molt, D. Petranovic yApoptosis: Yeast Apoptosis Database, *Database* (2013)
10. M. Hernebring, Å. Fredriksson, M. Liljevald, **M. Cvijovic**, K. Norrman, J. Wiseman, H. Semb, T. Nyström Removal of damaged proteins during ES cell fate specification requires the proteasome activator PA28, *Nature Scientific Reports* 3: 1381 (2013)
9. L. Kazemzadeh, **M. Cvijovic**[#], D. Petranovic Boolean model of yeast apoptosis as a tool to study yeast and human apoptotic regulations, *Front Physiol* 3:446 (2012)
8. F. Cuklev, J. Fick, **M. Cvijovic**, E. Kristiansson, L. Förlin, D.G.J. Larsson Does ketoprofen or diclofenac pose the lowest risk to fish? *J Hazard Mater.* 229-230:100-6 (2012)
7. F. Cuklev, L. Gunnarsson, **M. Cvijovic**, E. Kristiansson, C. Rutgersson, B. Björlenius D.G.J. Larsson Global hepatic gene expression in rainbow trout exposed to sewage effluents: A comparison of different sewage treatment technologies, *Science of the Total Environment*, 427-428:106-14 (2012)
6. **M. Cvijovic**, S. Velasco Bordel, J. Nielsen Mathematical Models of Cell Factories: Moving towards the core of Industrial Biotechnology, *Microbial Biotechnology*

(2011)

5. **M. Cvijovic**, R.Olivares-Hernández, R. Agren, N.Dahr, W. Vongsangnak, I. Nookaew, K. R. Paril, J. Nielsen BioMet Toolbox: genome-wide analysis of metabolism, *Nucleic Acid Research, NAR vol 38 (2010)*
4. N. Erjavec*, **M. Cvijovic***, E. Klipp, T. Nyström Selective benefits of damage partitioning in unicellular systems; effects on robustness, fitness and aging, *PNAS vol 105 (2008) (Recommended by Faculty of 1000)*
3. **M. Cvijovic***, H. Soueidan*, D. J. Sherman, E. Klipp, M. Nikolski Exploratory simulation of Cell Ageing Using Hierarchical Models, *Genome Informatics 21:114-25 (2008)*
2. **M. Cvijovic**, D.Dalevi, E. Bilsland, G.J.L. Kemp, P. Sunnerhagen, Identification of putative regulatory upstream ORFs in the yeast genome using heuristics and evolutionary conservation, *BMC Bioinformatics 8:295 (2007)*
1. Selpi, C.H. Bryant, G.J.L. Kemp, **M. Cvijovic**, A First Step towards Learning which uORFs Regulate Gene Expression, *Journal of Integrative Bioinformatics, 3(2) (2006)*

*Equal contribution; #Corresponding author