

# Niek Welkenhuisen | CV

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## EDUCATION

- August 2012 – December 2016      **Ph. D Natural Sciences**      Dept. of Chemistry and Molecular Biology,  
 University of Gothenburg  
 Title: Systems-level investigation of the interaction between glucose metabolism and the Snf1/Mig1 signalling pathway  
 Supervisor: Prof. Stefan Hohmann
- September 2009 – June 2012      **Msc Biochemistry**      Katholieke Universiteit Leuven  
 Leuven, Belgium  
 Title: Influence of chaperons on alpha-synuclein aggregation in Parkinsons Disease and other synucleopathies  
 Supervisor: Prof. Johan Thevelein
- September 2006 – June 2009      **Bsc Biotechnology**      VIVES University College  
 Roeselare, Belgium

## ACADEMIC MERITS

- |                                      |   |            |
|--------------------------------------|---|------------|
| <b>Grants/Awards</b>                 | Marie Curie PhD Fellow <i>Competitive 3yr fellowship</i>                          | 2012       |
|                                      | Wilhelm och Martina Lundgrens Vetenskapsfond                                      | 2013       |
|                                      | Knut och Alice Wallenbergs Stiftelse  | 2013, 2014 |
| <b>Oral Presentations</b>            | Swedish Bioinformatics Workshop   | 2016       |
|                                      | Linköping – Sweden  |            |
|                                      | 27 <sup>o</sup> International conference on yeast genetics and molecular biology  | 2015       |
|                                      | Trentino – Italy  |            |
|                                      | 16 <sup>th</sup> International Conference on Systems Biology                      | 2015       |
|                                      | Singapore   |            |
|                                      | Swedish Bioinformatics Workshop   | 2014       |
|                                      | Göteborg – Sweden   |            |
| <b>Selected Poster Presentations</b> | Cutting Edge Biomolecular Science – SFBBM Symposium                               | 2013       |
|                                      | Marstrand – Sweden  |            |
|                                      | 17 <sup>th</sup> International Conference on Systems Biology, Barcelona – Spain   | 2016       |
| <b>Selected Poster Presentations</b> | 19 <sup>th</sup> Yeast Genetics Meeting, Seattle – USA                            | 2014       |
|                                      | 26 <sup>th</sup> International Conference on Yeast Genetics and Molecular Biology | 2013       |
|                                      | Frankfurt – Germany   |            |
| <b>Commissions of trust</b>          | Member of the departemental board (Dept. of Chemistry and Molecular Biology)      | 2014-2016  |
|                                      | President of the PhD council (Dept. of Chemistry and Molecular Biology)           | 2015-2016  |
|                                      | Secretary of the PhD council (Dept. of Chemistry and Molecular Biology)           | 2014-2015  |
| <b>Supervision</b>                   | Mattias Backman, Master student   | 2014-2015  |

	Laura Ramos, Project student	2015
<b>Teaching</b>	Cell Biology Lab assistant, Bachelor course	2016
	Eukaryotic Molecular Biology Lab assistant, Master course	2014 - 2016
	7 <sup>th</sup> International Course in Yeast Systems Biology Lab assistant, PhD course	2015

## Publications

### Published

- Timo Lubitz , **Niek Welkenhuysen**, Sviatlana Shashkova, Loubna Bendrioua, Stefan Hohmann , Edda Klipp and Markus Krantz. Network reconstruction and validation of the Snf1/AMPK pathway in baker's yeast based on a comprehensive literature review. **npj Systems Biology and Applications** 2015 1, 15007.
- Soheil Rastgou Talemi\*, Carl-Fredrik Tiger\*, Mikael Andersson, Roja Babazadeh, **Niek Welkenhuysen**, Edda Klipp, Stefan Hohmann, Jörg Schaber, Systems Level Analysis of the Yeast Osmo-Stat, **Scientific Reports** 2016 6,30950.
- Sviatlana Shashkova \*, **Niek Welkenhuysen** \*, Stefan Hohmann. Molecular communication: crosstalk between the Snf1 and other signaling pathways. **FEMS Yeast Research**. 2015 Jun; 15(4):fov026. [review]
- Kristofer Bodvard\*, Ken Peeters\*, Friederike Roger\*, Natalie Romanov, Aeid Igbaria, **Niek Welkenhuysen**, Wolfgang Reiter, Michel B. Toledano, Mikael Käll and Mikael Molin, Light-sensing via hydrogen peroxide and a peroxiredoxin. **Nature Communications**.

### Under review

- **Niek Welkenhuysen**, Johannes Borgqvist, Mattias Backman, Loubna Bendrioua, Mattias Goksör, Caroline B. Adiels, Marija Cvijovic, Stefan Hohmann. Single-cell study links metabolism with nutrient signalling and reveals sources of variability. **FEBS Journal**.

\* : equal contribution

## SKILLS

<b>Language</b>	Dutch	Native
	Swedish	Full writing, reading and speaking proficiency
	English	Full writing, reading and speaking proficiency
	French	Intermediate speaking and reading proficiency
<b>Software</b>	Full proficiency: Microsoft office (Excel, Word, PowerPoint)	
	Medium proficiency: Matlab, Photoshop	
	Minor proficiency: R, Python, Latex	