

## Curriculum Vitae : Prof Eva Nordberg Karlsson

**Born** 1962 (15 september) (620915-2708), Nationality: Swedish  
**Languages:** fluent in Swedish and English, simple conversation in German.  
**Work address:** Biotechnology, Dept of Chemistry (KILU)  
Lund University, P.O.Box 124, SE-221 00 Lund, Sweden  
**Tel.:** +46 46 2224626, +46 70 5279128 (mobile), +46 46 2224713 (fax)  
**e-mail:** eva.nordberg\_karlsson@biotek.lu.se



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**SUMMARY:** Research focus is on enzymology and molecular development of carbohydrate active enzymes from different bacterial sources, including extremophiles for sustainable applications related to marine and terrestrial biomass conversions (industrial and food biotechnology (producing poly/oligosaccharides, glycosylated polyphenolic substances, surfactants etc). The work also concerns whole cell applications, e.g. enzyme or metabolite production. Original papers include these topics, and research is supported by European, Nordic and Swedish granting agencies. Teaching involves MSc- and PhD-students on sustainable biotechnology methods, enzymology, development and recombinant protein production, including developing courses/exercises. **CURRENT RESEARCH GROUP:** 2 POST DOCs (J Linares Pasten, RRR Sardari), 6 PhD-students (R Faryar, E Ron, KZG Ara, D Salas Veizaga, A Aronsson, B. Shouker), 1 MSc-Student (R Anthony).

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### EXPERIENCE RECORD

- 1. Higher education degree(s):** **Med. Lab. Technol** (Borås, 1984), **MSc Biology/Biochem** (Lund Uni, 1991).
- 2. Doctoral degree: PhD engineering:** Biotechnology, Lund Univ, 19990521.
- 3. Post doctoral positions:** **Marie Curie Fellow** Centre for Extremophile research, University of Bath, UK, 2000-2001, **K&A Wallenberg postdoc grant** - Biotechnology, Lund University, Sweden (2001-2002).
- 4. From 2002 Assistant professor, Assoc professor 2005 and Senior lecturer 2008** (Biotechnol, Lund)
- 5. Present position: Professor** in Biotechnology (mol biol), LTH, Lund Univ since 2012, currently 70% research supported by external grants. **Director of research studies** (LTH, since 2009)
- 6. AWARDS:** Personal grant Markussen foundation (1995), Marie Curie Fellow (2000), KAW-fellow (2000-2001), Supervision award, Budapest University of Technology and Economics, (M. Megyeri), 2005.
- 9. Supervision: Previous- Main supervisor** for 3 PhDs passed 2007 (P Turner) and 2012 (S Khan, T Pozzo). *Deputy supervisor*, 9 PhDs passed between 2003-2015 (2003, M AbouHachem; 2005, S Ramchuran; 2007, S Deraz, L Cicortas Gunnarsson; 2012, S Lindahl, L von Schantz, E Kreuger, 2014 P Falck, 2015 P Lundemo) and 2 Licentiates passed 2012 (F Rundbäck, K Cabero).  
**Graduation committee member at PhD-level: (Swe):** 15 times (2006 -2015), opponent twice in the period.  
**External examiner (abroad):** 9 times (2009-2015)
- 10. Mentorship of Postdoctoral Fellows:** Peter Falck 2015- ongoing, Roya Rezaei 2014- ongoing, Javier Linares-Pasten 2011-ongoing, Tejas Kulkarni, 2011-2013; Tania Pozzo 2013, Samiullah Khan 2012, Mushtaq Ahmed 2010, Catherine Paul 2008-2009.
- 11. Ongoing Research Funding:**  
Lantmännen research found. The bran refinery (2015-2016),  
VR Weissella, a novel putative probiotic. (2015-2018),  
FP7 KBBE: SeaBioTech [2012-2016],  
Era-Net (marine biotech). Thermofactories (2016-2018),  
Formas (MacroVal) marine sugarplatform (2016-2018),  
Processum foundation (microbial Pigments via lignocellulose use, 2016),  
H2020 Virus-X (2016-2020).
- 12. Publications and Patents:** >70 original papers, 3 reviews in international journals with peer review, 8 peer-reviewed conf proceedings, 2 reports, 4 book chapters, inventor of 3 patents, 16 deposited structures (pdb),

>20 deposited genes (Genbank) and >10 interviews/contributions in national reports/magazines. (h-index 24, i10-index: 50, Google Scholar)

### **13. Commissions of trust / Interaction with stakeholders**

Board Member at Dept of Chemistry (from 2012). and the Swedish Chemical Society (from 2014).

Member of the research board, committee and working group for research education at LTH (from 2011)

Faculty representative in the committee for research education at Lund University (2013-2014).

Member of organising committees of int workshops/symposia (3rd NorFA workshop on "Biology of thermophiles" Aug 23-26, 2001, 'Efficient biocatalytic routes for selective introduction of oxygen' Nov 9, 2006), 1<sup>st</sup> and 2<sup>nd</sup> symposium on Biomass valorization (Lund Univ, Dec, 2011, and Dec 2013) as well as workshops at Dept Chemistry, LU (from 2010 - onwards).

Member of the LU-Biofuels, and Lund University Bioindustrial Research Center (LUBIRC) networks (ongoing).

Editorial board of 51<sup>st</sup> Ann Conf Assoc Microbiol of India & Int Symp Cross discipl Microbiol: Avenues and Challenges, Birla Inst Technol, Mesra, Ranchi, Jharkhand (2010-2012). Editorial board on the open access journal "Enzyme research", Amylase (ongoing) and reviewer of scientific articles in various international journals.

Chairperson at 4<sup>th</sup> and 5<sup>th</sup> symposia on the alpha-amylase family (ALAMY\_4), Smolenice, Slovakia (2010, and 2013).

Evaluator of research applications and promotion proposals (e.g. Sweden, Norway, Iceland and South Africa).

From 2001 –ongoing: participant (or PI) in Swedish/Int.l research collaborations including Academic and Industrial partners, e.g. EU-projects (AMYLOMICS, 5 industrial partners) and (SeaBiotech, 7 industrial partners), Swedish projects: Greenchem, SureTech, AFC, and Biostream with Industry partners in oil, food and chemistry sectors. Participant of "Agenda Biorefineries for a Green Sweden"- for VINNOVA (2013)

Member of the Industrial & Intellectual Property rights committee of the EU-project SeaBiotech.

Co-owner/ co-founder of the Swedish SMEs Enza Biotech AB (3 employees) and Carbiotix AB (no employees).