



## Curriculum Vitae

Personal information **Lena Strindelius**

### Work experience

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1. Employer: SBL Vaccine AB
  - Start date: 082003
  - End date: 052006
  - Position: Research Scientist
  - Activities: After my graduation, I worked as a scientist at SBL Vaccine. I planned and performed preclinical vaccine studies including the development of immunological analytical methods, and produced a number of research reports. I was also involved in the production of antigens with E. coli culture with subsequent purification and analysis of recombinant fusion proteins.
  - Country: Sweden
2. Employer: Orexo AB
  - Start date: 052006
  - End date: 082007
  - Position: Product developer
  - Activities: At Orexo, I worked as a product developer where I gained experience of working closely with the quality department and also developed new formulations for a peptide for both sublingual and nasal administration with subsequent GMP manufacturing and stability studies prior to clinical trials. I was also involved in the writing of regulatory documents and reports.
  - Country: Sweden
3. Employer: Recopharma AB
  - Start date: 082007
  - End date: 022010
  - Position: Scientist
  - Activities: At Recopharma, I had project manager responsibility and had the opportunity to work with preclinical vaccine research and immunological analysis method development (ELISA, ELiSpot, CTL, SPR with Biacore), that resulted in two publications. The work also involved participation in the construction of a quality system. I cultivated different stable cell lines (CHO, HEK\_293, COS), and analyzed purified glycoproteins with Lectin\_Western blot and LC\_MS.
  - Country: Sweden
4. Employer: Dept. of Pharmacy, Uppsala University
  - Start date: 082010
  - End date: 012012
  - Position: Senior Lecturer
  - Activities: Deputy lecturer in Pharmaceutics.
  - Country: Sweden
5. Employer: Dept. of Pharmacy, Uppsala University
  - Start date: 082013
  - End date: 032014
  - Position: Senior Lecturer
  - Activities: Deputy lecturer in Pharmaceutics.
  - Country: Sweden
6. Employer: Dept. Clinical Pharmacology, Karolinska Institute
  - Start date: 042014
  - End date: 082018
  - Position: University Lecturer
  - Activities:
  - Country: Sweden
7. Employer: Swedish Medical Products Agency
  - Start date: 082018
  - End date:
  - Position: Pharmaceutical Assessor
  - Activities:
  - Country: Sweden

### Education and training

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1. Subject: Uppsala University
  - Start date: 011992
  - End date: 021997
  - Qualification: Pharmacy degree
  - Organisation:
  - Country: Sweden
2. Subject: Uppsala University
  - Start date: 031997
  - End date: 072003
  - Qualification: PhD in Pharmaceutics
  - Organisation: My thesis work was based on the formulation of vaccines focusing on mucosal administration. The dissertation work included the purification of antigens, vaccine formulation and animal studies with evaluation of vaccine effects using various types of immunological analytical methods including various microscopic techniques. I also had the opportunity to have a shorter research exchange with a research group in Seattle, USA. The work during my PhD

required great accuracy and project management. In addition, I taught 20% of my time in the pharmacy program.

- Country: Sweden
3. Subject: Uppsala University
- Start date: 022010
  - End date: 062010
  - Qualification: Clinical Pharmacotherapy courses
  - Organisation:
  - Country: Sweden
4. Subject: Novotny Glyco science lab, Bloomington, Indiana
- Start date: 012017
  - End date: 082018
  - Qualification: Visiting Scholar
  - Organisation: As a visiting scholar in Professor Milos Novotny's lab, I had the opportunity to learn more about analytical methods such as liquid chromatography linked to mass spectrometry (LC\_MS). I was involved in a project where we purified urinary exosomes and analyzed glycans and glycopeptides with different LC\_MS instruments (iontrap and Orbitrap). The goal was to find new biomarkers for different types of cancers that are related to the urinary tract.
  - Country: United States

## Additional information

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### Publications

Publication list: Glycoproteomic Analysis of Human Urinary Exosomes. Brown CJ, Gaunitz S, Wang Z, Strindelius L, Jacobson SC, Clemmer DE, Trinidad JC, Novotny MV. *Anal Chem.* 2020 Nov 3;92(21):14357\_14365. doi: 10.1021/acs.analchem.0c01952. Epub 2020 Oct 13. PMID: 32985870 \* Ahlén, G., \* Strindelius, L., Johansson, T., Gustafsson, A., Sjöblom, M., Rova, U., and Holgersson, J. Mannosylated mucins in vaccine compositions enhance antigen-specific antibody and T lymphocyte responses. *PLoS One.* 2012; 7 (10): e46959. Doi: 10.1371/journal.pone.0046959. Epub 2012 Oct 12. \* These authors contributed equally to this work. Gustafsson, A., Sjöblom, M., Strindelius L., Johansson T., Fleckenstein, T., Chatzissavidou, N., Lindberg L., Rova, U., and Holgersson, J. Pichia pastoris-produced mucin-type fusion Proteins with multivalent O-glycan substitution as targeting molecules for mannose-specific receptors of the immune system. *Glycobiology*, 2011, Vol 21 (8), 1071\_1086. Strindelius L., Filler M., and Sjöholm I. Mucosal immunization with purified flagellin from Salmonella induces systemic and mucosal immune responses in C3H / HeJ mice. *Vaccine.* 2004 September 9; 22 (27\_28): 3797\_808. Stertman L., Strindelius L. and Sjöholm I. Starch microparticles as an adjuvant in immunization: Effect of route of administration on the immune response in mice. *Vaccine.* 2004 July 29; 22 (21\_22): 2863\_72. Strindelius L., Folkesson A., Normark S. and Sjöholm I. Immunogenic properties of the Salmonella atypical fimbriae in Balb / c mice. *Vaccine.* 2004 March 29; 22 (11\_12): 1448\_56. Strindelius L. Ph.D. Thesis: Mucosal Vaccination Using Polyacrylic Starch Microparticles as Adjuvant with Salmonella Enteritidis as a Model Pathogen. 2003, Uppsala University. Östh K., Strindelius L., Larhed A., Ahlander A., Roomans G. M., Sjöholm I. and Björk E. Uptake of ovalbumin-conjugated starch microparticles by pig respiratory nasal mucosa in vitro. *Journal of Drug Targeting*, 2003, Vol 11 (1), 75\_82. Strindelius L., Degling Wikingsson L. and Sjöholm I. Extracellular Antigens from Salmonella Enteritidis Induce Effective Immune Response in Mice After Oral Vaccination. *Infect. Immune.* 2002, Vol 70 (3), 1434\_1442. Strindelius L. C., Nation R. L., Evans A. M., Cabot J. L. and Corbett K. M. Effect of Organic Cations on the Renal Tubular Secretion of Pseudoephedrine in the Rat. *Clin. Exp. Pharm. And Physiol.* 2001, 28, 43\_47. (From my Master thesis in Australia January\_96 to July\_96th.)

### Projects

### Memberships

### Other Relevant Information