

CURRICULUM VITAE

Gunilla Runström

Contact information

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Education

Individual courses:

- 2016 Medicinal statistics 2. 5 hp Gothenburg University, Sweden
- 2016 Occupational Respiratory Diseases – prevention and risk factors. NIVA, Gothenburg Sweden
- 2015 Statistics for chemical analysts 3 hp Gothenburg University, Sweden
- 2013 Medicinal statistics 1. 7.5 hp Gothenburg University, Sweden
- 2013 **Ph.D. Aston University, Birmingham, UK**
Ph.D. in tear protein analysis at the Biomaterials Research Unit under Professor Brian Tighe. The research project included the evaluation of albumin in the tear film proteome, immunoassay development and the novel use of point-of-care techniques for tear protein analysis.
- 2009 **BSc. Aston University, Birmingham, UK**
BSc in biology and chemistry with a year in industry (First Class honours). Modules undertaken include: polymer science, chemical analysis, physical chemistry, biochemistry, biological basis of disease, human physiology and immunology.

Experience

2015- Department of Occupational and Environmental Medicine, Gothenburg University, Sweden

Post-doctoral researcher with an individual research grant from Forte (Dnr 2014-2452). The project aimed to develop more sensitive screening methods for COPD to facilitate earlier identification of disease condition, progression and exacerbation, using the PExA method.

2014-2015 Centre for Occupational and Environmental Health, Stockholm County Council, Sweden
Occupational hygienist investigating chemical, physical and biological exposures.

2013-2014 Department of Occupational and Environmental Medicine, Gothenburg University, Sweden

Research chemist in environmental chemistry and biology. Using GC-MS and ELISA to determine concentrations and exposure levels of polycyclic-aromatic hydrocarbon air pollutants in environmental and occupational settings. Validating novel ELISA methodology measuring protein-adducts in serum from patients with occupational exposures for future research use. Measuring occupational exposure to particles and smoke in workers using wood-fuelled pizza ovens.

Positions of influence

2016-2017 Assistant Research Group leader
2010-2013 Chair and organiser of the research group's monthly research focus meetings.
2009-2011 Laboratory supervisor of undergraduate students.

Summary Gunilla Runström

I'm a professional, positive, highly articulated post-doctoral researcher. In the area of tear protein research, my project has contributed significantly to the understanding of tear albumin concentrations and the factors of variation. Other key elements of my research have been assay development and the novel evaluation of point-of-care kits for tear protein assessment.

Specifically related to the applied for project, I have significant experience in the areas of vascular leakage inflammation markers, analysis of small fluid volumes and the development of methodology for clinical screening. My science education has provided me with many transferable skills, such as a keen analytical and inquisitive mind, time management skills and effective written and oral communication. I am currently adding experience in practical statistics for medical research to my other qualifications.

Related Publications

Quantification of proteins in exhaled particles using Luminex technology - considerations for analysis of samples from the small airways. Runstrom, Larsson, Olin, Mirgorodskaya. Manuscript 2017.

The fall and rise of tear albumin levels: a multifactorial phenomenon. Runström, G.K., Mann A.M., Tighe, B.J., 2013. The Ocular Surface Jul;11(3):165-80.

Albumin in Tears. Monographic thesis. 2013

Conference abstracts:

Feasibility of using Multiplex technology for simultaneous quantification of inflammatory proteins in exhaled particles, European Respiratory Society International Congress 2016, London UK, Speaker.

British Contact Lens Association Conference 2010, Nottingham, UK. Albumin as a diagnostic marker in tears.

Swedish Contact Lens Association Conference 2011, Gothenburg, Sweden, Invited speaker. Tear film composition, materials interactions and clinical consequences.

British Contact Lens Association Conference 2011, Birmingham, UK. Albumin: Diurnal variation.

International Society for Contact Lens Research 2011 San Francisco, USA, Speaker. Albumin: the other side of the story.

British Contact Lens Association Conference 2012. Nottingham UK, Tear protein analysis – the influence of tear sampling techniques

British Contact Lens Association Conference 2013, Birmingham, UK. Tear albumin concentration: Effect of sampling technique, tear flow stimulation and subject individuality.