
Curriculum Vitae – Magnus Klarqvist

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Personal Information

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Citizenship:	Swedish
Social Status:	Married
Family:	Wife and 3 children (15, 12 and 10 years old)

Exams

1998 PhD in Analytical Chemistry, Umeå University

1993 BSc in Chemistry, Umeå University

Employment

2009-	Associate Director, Medicinal Chemistry, AstraZeneca R&D, Mölndal, Sweden
2003-2009	Team Leader, Medicinal Chemistry, AstraZeneca R&D, Mölndal, Sweden
2000-2003	Assistant Professor, Dept. of Environmental Chemistry, Umeå University, Sweden
1998-2000	Postdoctoral scholarship at EC Joint Research Centre IRMM, Geel, Belgium.

Language

Swedish Native tongue.

English Fluent

National and International Symposium

Oral and poster presentation in more than 25 international conferences (list on request)

Certificates and References

Copies of exams, employment records, and references will be sent on request.

Publications

1. 1993 Improving accuracy in the quantitation of overlapping, asymmetric, chromatographic peaks by deconvolution: theory and application to coupled gas chromatography atomic absorption spectrometry. Johansson M., Berglund M. and Baxter D.C., *Spectrochimica Acta*, 1993, 48B, 1393-1409.
2. 1995 Preliminary appraisal of a novel sampling and storage technique for the speciation of lead and mercury in seawater. Johansson M., Emteborg H., Glad B, Reinholdsson F. and Baxter D.C., *Fresenius J. Anal. Chem.*, 1995, 351, 461-466.
3. 1995 Supercritical fluid extraction of ionic alkyllead species from sediments and urban dust. Johansson M., Berglöf T., Baxter D.C. and Frech W., *Analyst*, 1995, 120, 755-759.
4. 1995 Signal-to-noise ratios for coupled gas chromatography-atomic absorption spectrometry using quartz tube atomizers. *J. Anal. At. Spectrom.*, 1995, 10, 711-720.
5. 1997 Mechanism of formation and spatial distribution of lead atoms in quartz tube atomizers., Johansson M., Baxter D.C., Ohlsson K.E.A. and Frech W., *Spectrochimica Acta*, 1997, 52B, 643-656.
6. 1998 Determination of nickel using electrochemical reduction and carbonyl generation with in situ trapping electrothermal atomic absorption spectrometry., Johansson M., Hansson R., Snell J. and Frech W., *Analyst*, 1998, 123, 1223-1228.
7. 1998 Stability and reactions of mercury species in organic solution., Snell J., Qian J., Johansson M., Smit K. and Frech W., *Analyst*, 1998, 123, 905-909.
8. 1998 Hyphenated Systems and Sample Preparation Techniques in Lead Speciation and Ultra-Trace Nickel Determination- Fundamental Studies and Applications., Johansson M., PhD thesis, Umeå University (1998)
9. 1999 Spatially resolved absorption measurements of antimony atom formation and dissipation in quartz tube atomizers following hydride generation. Matousek T., Johansson M., Dedina J. and Frech W., *Spectrochimica Acta*, 1999, 54B, 631-643.

10. 2000 Gas flow patterns and longitudinal distribution of free selenium atoms in quartz tube atomizers for hydride generation atomic absorption spectrometry., Matousek T., Dedina J., Johansson M. and Frech W., *Spectrochimica Acta, Part B: Atomic Spectroscopy* (2000), 55B(2), 151-163.
11. 2000 Speciation of selenium in food and animal feed using ion chromatography on-line microwave pretreatment hydride generation atomic absorption spectrometry., Johansson, M., Bordin G. and Rodriguez A.R., Ed. Roussel et al., *Trace Elements in Man and Animals 10*, [Proceedings of the International Symposium on Trace Elements in Man and Animals], 10th, Evian, France, May 2-7, 1999 (2000), 169-172.
12. 2000 Feasibility study of ion-chromatography microwave assisted on-line species conversion hydride generation atomic absorption spectrometry for selenium speciation analysis of biological material., Johansson, M., Bordin G. and Rodriguez A.R., *Analyst*, 2000, 125(2), 273-279.
13. 2004 An overview of OSPAR priority compounds and selection of a representative training set., Knekta E., Andersson P. L., Johansson, M. and Tysklind M., *Chemosphere* (2004), 57(10), 1495-1503.
14. 2004 Determination of antibiotic substances in hospital sewage water using solid phase extraction and liquid chromatography/mass spectrometry and group analogue internal standards., Lindberg R., Jarnheimer P-A, Olsen B. and Johansson M. and Tysklind M., *Chemosphere*, 2004, 57(10), 1479-1488.
15. 2004 Fluoroquinolone Antibiotics in a Hospital Sewage Line; Occurrence, Distribution and Impact on Bacterial Resistance., Jarnheimer P-A., Ottoson J., Lindberg R., Stenstroem T-A., Johansson, M., Tysklind M., Winner M-M and Olsen, B., *Scandinavian Journal of Infectious Diseases*, 2004, 36(10), 752-755.
16. 2005 Screening of human antibiotic substances and determination of weekly mass flows in five sewage treatment plants in Sweden., Lindberg R.H., Wennberg P., Johansson M., Tysklind M. and Andersson B.A.V., *Environmental Science & Technology* (2005), 39, 3421-3429.
17. 2006 Behavior of fluoroquinolones and trimetoprim during mechanical, chemical and active sludge treatment of sewage water and digestion of sludge., Lindberg R.H., Olofsson U., Rendahl P., Johansson M., Tysklind M. and Andersson B.A.V., *Environmental Science & Technology* (2006), 40, 1042-1048.
18. 2007 Multivariate Chemical Mapping of Antibiotics and Identification of Structurally Representative Substances., Papa E., Fick J., Lindberg R., Johansson M., Gramatica P. and Andersson P. L., *Environmental Science & Technology* (2007), 41(5), 1653-1661.
19. 2007 Environmental risk assessment of antibiotics in the Swedish environment with emphasis on sewage treatment plants., Lindberg R. H., Bjoerklund K., Rendahl P., Johansson M., Tysklind M. and Andersson B. A. V., *Water Research* (2007), 41(3), 613-619.
20. 2009 Making medicinal chemistry more effective—application of Lean Sigma to improve processes, speed and quality., Andersson S., Armstrong A., Björe A., Bowker S., Chapman S., Davies R., Donald C., Egner B., Elebring T., Holmqvist S., Inghardt T., Johannesson P., Johansson M., Johnstone C., Kemmitt P., Kihlberg J., Korsgren P., Lemurell M., Moore J., Pettersson J.A., Pointon H., Pontén F., Schofield P., Selmi N. and Whittamore P., *Drug Discovery Today*, 2009, 6, 598-604.
21. 2015 Evaluation of scale-up from analytical to preparative supercritical fluid chromatography., Enmark, M., Åsberg, D., Leek, H., Öhlén, K., Klarqvist, M., Samuelsson, J., & Fornstedt, T., *Journal of Chromatography A*, 2015, 1425, 280-286.
22. 2016 A closer study of methanol adsorption and its impact on solute retentions in supercritical fluid chromatography., Glenne, E., Öhlén, K., Leek, H., Klarqvist, M., Samuelsson, J., & Fornstedt, T., *Journal of Chromatography A*, 2016, 1442, 129-139.
23. 2016 Strategy for large-scale isolation of enantiomers in drug discovery. Leek, H., Thunberg, L., Jonson, A. C., Öhlén, K., & Klarqvist, M. *Drug Discovery Today*.
24. 2016 Peak deformations in preparative supercritical fluid chromatography due to co-solvent adsorption., Glenne, E., Leek, H., Klarqvist, M., Samuelsson, J., & Fornstedt, T., *Journal of Chromatography A*, 2016, 1468, 200-208.
25. 2017 The importance of ion-pairing in peptide purification by reversed-phase liquid chromatography., Åsberg, D., Weinmann, AL., Leek, T., Lewis, RJ., Klarqvist, M., Leško, Kaczmarski, K., Samuelsson, J. & Fornstedt, T., *Journal of Chromatography A*, 2017, 1496, 80-91.
26. 2017 Systematic investigations of peak deformations due to co-solvent adsorption in preparative supercritical fluid chromatography., Glenne, E., Leek, H., Klarqvist, M., Samuelsson, J. & Fornstedt, T., *Journal of Chromatography A*, 2017, 1496, 141–149.
27. 2017 A Test Mixture for Performance Verification of Multi-User UHPLC–MS Instruments., Leek, T., Falk, N., Babapour, A. & Klarqvist, M., *LCGC Europe*, 2017, 30, Issue 3, 110–118.

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