

Per Aaslo

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Summary

Highly organized and motivated Analytical Chemist with more than 6 years of experience in a quick analysis turnaround laboratorie. Possess excellent communication, researching, analytical, report-writing, and technical skills along with the ability to coordinate and work with cross-functional teams. At Alphalyse I was responsible for independently operating their Bruker Maxis Impact nanoLC-MS/MS system and performing intact mass, protein identification and peptide mapping on a daily basis. I also diagnose and troubleshoot the instrument whenever needed. Other instruments and analytical techniques I have experience operating are EvoSep, Dionex Ultimate nanoLC, Agilent 1200 series and BioChrom plus Waters Acquity UPLC for amino acid analysis.

Experience

Protein chemist

Alphalyse

May 2014 - Present (6 years 3 months +)

I have been responsible for running standard protein analysis using mass spectrometry. I have been involved the overall responsibility for one of Alphalyse Q-ToF instruments (Bruker Impact II) and the LC systems used in combination with this system (Dionex Ultimate, Agilent 1200 and EvoSep One).

As part of the protein analysis team at Alphalyse I was involved in project related to protein identification and peptide mapping by nanoLC-MS/MS, and intact protein mass analysis (MW determination). My day-to-day tasks was to ensure that the instruments were performing in accordance with our standard operating procedures, and to run customer samples and I have also been involved in the reporting of the results from these analysis to the customers. These reports have sometimes required that I communicate on a high scientific level in English as most of the clients are from Europe and North America.

Analytical Chemist

Fødevarestyrelsen

Mar 2013 - Apr 2013 (2 months)

My task was to update control charts, validation data and end-reports based on compounds that were analyzed in 2012 and also adjusting the descriptions in some of the analytical methods regarding lab. equipment.

Analytical Chemist

Viminco

Feb 2013 - Mar 2013 (2 months)

My task was to calculate and update the standard curves in most of their analytical methods, so that the measured concentration was within the expected concentration range.



Ph.d Student

Aarhus University

Jul 2008 - Apr 2011 (2 years 10 months)

The aim of the project were to increase health benefits of Barley and develop varieties with improved baking properties.

- Installation and daily maintenance of a Waters Acquity UPLC, Waters QTOF Premier system.
- Trypsin and chymotrypsin in-gel digestion of storage proteins.
- Identifying specific storage proteins in Barley using Biopharmalynx
- Setting up UPLC methods to determine the overall amino acid composition of storage proteins.
- Screening of hordein patterns (storage proteins) from Barley cultivars using SDS Page.
- Variations in amino acid patterns analyzed by UPLC/ AccQ Tag Ultra AA
- Create PCA plots (Principal Component Analysis) to visualize changes in amino acid composition.
- UPLC method development



Analytical Chemist

Jan 2008 - Jun 2008 (6 months)

HPLC method development on Agilent 1100 HPLC / Agilent MSD Detector used for impurity and stability testing. Structure elucidation using deuterium on mass spec. The job gave insights in a pharmaceuticals workplace, writing SOP's, data analysis, reports, analysis certificate etc.



Scientific Assistant

Aarhus University

May 2007 - Mar 2008 (11 months)

The task was to quantify secondary metabolites in agricultural crops promoting human health in cereals by LCMS and LC-MS/MS on a Agilent 1100 HPLC and a Agilent MSD Detector.



Scientific Assistant

Rigshospitalet

Mar 2006 - Jun 2006 (4 months)

Setting up Elisa methods to diagnose Kisspeptin deficiency in children.



Student Worker

Roskilde University

Jul 2003 - Sep 2003 (3 months)

Age determination of about forty Baluga whales (The National Environmental Research Institute) using LCMS/MS and GCMS

Education



Roskilde University

Master of Science (MS), Molecular Biology & Environmental Biology

MSc. from Roskilde University, where I specialized in age determination by LCMS/MS and GCMS. I have as a Ph.D. student gained a lot of experience with UPLC, LCMS/MS, GCMS and QTOF. Where the UPLC was used for amino acid composition studies, LCMS/MS for analyzing secondary metabolites in grains and age determination, GCMS for analyzing aspartic acid in eye lenses from seals and pesticides in bees and the UPLC/QTOF were used in protein identifications of storage proteins.

THESIS: Age determination based on amino acid epimerization in teeth and eye lenses measured as the ratio between L and D-aspartic acid and analyzed by chiral LC-MS/MS and GC-MS. Optimization of the electrospray ionizing interface and zero voltage electrospray increasing signal to noise ratio of certain amino acids. Published in the journal "Rapid Communication of Mass Spectrometry."

Experience:

- GC-MS; LC-MS/MS and ion chromatography.
- Solid phase column extractions.
- ESI Optimization; detection limit.
- Chemical structure elucidation and Identifying adducts formation.
- Derivatization of amino acids

Skills

Analytical Chemistry • Mass Spectrometry • Molecular Biology • Biochemistry • Protein Chemistry • High-Performance Liquid Chromatography (HPLC)