

CURRICULUM VITAE

SANJIN KULENOVIC

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PROFESSIONAL PROFILE

Biochemistry professional specialized in laboratory method development and vitamin, mineral, nutraceutical and plant nutrition analysis. Advanced experience in developing and optimizing analytical techniques for biochemical compounds, quality control processes, and nutrient assessment. Combines rigorous scientific training with practical experience in method validation, assay development, and nutrition and supplement analysis. Skilled in translating complex biochemical research into practical applications for feed, food, and pharmaceutical industries.

LABORATORY METHOD DEVELOPMENT AND QC EXPERIENCE

Laboratory Technician, Quality Control Method Specialist | 2024

Actief Hartmanns - Topsoe A/S Catalyst Division QC

- Applied testing protocols for physical parameter determination
- Tablet formulation processes and testing methodologies
- Implemented analytical techniques including XRF, Kjeldahl method, and titration protocols
- Followed quality control procedures for consistent data collection and reporting

Laboratory Assistant, Molecular Biology Method Specialist | 2021

Moment A/S - Testcenter Danmark, Statens Serum Institut

- Applied RNA purification protocols on Biomek i7 automated platform
- Reviewed PCR reaction preparation methods

MSc Speciale, Laboratory Method Developer | 2011-2013

Lundbeck Foundation Center for Biomembranes in Nanomedicine

- Developed novel protein-ligand assay platform using cell membrane microvesicles
- Designed and optimized bio-physical purification and detection methods for sensitive analysis
- Implemented fluorescence-based detection systems for biochemical interactions
- Established protocols for HEK-293 cell cultivation and microvesicle production
- Applied confocal microscopy techniques for visualization and quantification
- Developed data analysis protocols for complex biochemical assays

Reference: Dr. Karen Martinez, Tel: +45 35 32 04 75, Mobile: +45 30 30 04 75

Plant Nutrition System Developer and Founder | 2019-2022

Ponics Systems Danmark

- Applied cellular biological and biochemical principles to optimize plant nutrient delivery
- Reviewed research on plant nutrition
- Engaged in sustainable hydroponics system development focused on ecology and circular systems
- Consultation work within laboratory testing, metabolism and nutraceutical medicine

Reference: Dr. Katrine Flindt, Tel: +45 45 88 09 00

Scientific Communication Specialist | 2014-2016

Fact Nutraceuticals

- Applied biochemical expertise to analyze vitamin and mineral research studies
- Translated original research into easy-to-read articles

Hydroponics/Aeroponics Method Development Specialist | 2016-present

Aeroponics Design

- Focused on sustainable materials and organic disinfection formulations
- Systems setup engineering

ADDITIONAL PROFESSIONAL EXPERIENCE

Biochemistry Tutor | 2021

Superprof.dk

- Teaching biochemistry, cell biology and molecular biology to Technical University students (DTU)

- Providing instruction on biological chemistry, PCR, primer design, cloning, and organic chemistry
- Developing teaching methods for complex biochemical concepts

Production Assistant | 2010

Moment/Novo Nordisk

- Quality control of Glucagon products
- Visual inspection in GMP environment

Warehouse and Logistics Assistant | 2003-2008

MR Vikarservice and Nomeco A/S

- Managed expedition of pharmaceutical products
- Warehouse logistics and inventory management

EDUCATION

Master of Science in Biochemistry | 2010-2013

University of Copenhagen

- Major in Immunology
- Specialization in cell biology method development and ligand-binding assays

Bachelor of Science in Biology - Biotechnology | 2008-2010

University of Copenhagen

- Focus on laboratory method analysis and development

Studies in Biochemistry | 2004-2008

University of Copenhagen

Mathematical Student Exam | 2001-2004

Rødovre Gymnasium

COURSES

GDP - Good Distribution Practice | 11/2021

Matas

Programming Fundamentals | 07/2018

Programming Hub

- 15-day introduction to basic computer programming

KEY COMPETENCIES

Laboratory Method Development:

- Design and optimization of laboratory protocols and analytical techniques
- Development of sample preparation and purification methods
- Method adaptation for improved sensitivity and reproducibility

Biochemical Analysis:

- Fluorescence and spectroscopic detection methods
- Protein-ligand interaction analysis
- Cell-based and cell-free assay systems
- Data analysis and interpretation of complex biochemical results

Nutritional Biochemistry:

- Vitamin, mineral and nutraceutical research
- Nutrient bioavailability assessment methods
- Plant nutrient uptake and metabolism analysis
- Formulation of balanced nutrient solutions
- Analysis of nutritional deficiencies

LANGUAGES

- Danish - Fluent
- English - Fluent
- Bosnian - Fluent

IT SKILLS

- MacOS, Dictionary for Mac
- Microsoft Windows, Excel, Word, PowerPoint
- Google Chrome, Firefox, Safari
- Google Scholar, PubMed
- GPT-4, EdX, Educator.com

- ImageJ - Microscopy image analysis
- Igor Pro - Data analysis and visualization
- VMD - Visual Molecular Dynamics
- NAMD - Nanoscale Molecular Dynamics