

Curriculum Vitae

Core Competencies

Automation (robotics)

- ✓ 3 years performing Cell-based High-Throughput Screens & Assay development on the Hamilton MicrolabSTAR Liquid Handling Robot
INCell1000 High-Content Imaging System
Biotek Platerreader Spectrophotometer
- ✓ 9 years performing IHC Automation at Dako A/S
Dako TechMate™
Dako Autostainer
Dako Evolution
Dako Eridan™

Diagnostic Product development

- ✓ Cancer diagnostic IHC product development
- ✓ Design Control SOP's according to ISO, CE/IVD directives and FDA Regulations
- ✓ Product verification, validation & stability studies
- ✓ Production transfers
- ✓ Product external qualification studies
- ✓ Milestone reports and presentations to top management
- ✓ Multi-disciplinary communication skills between R&D, chemistry, marketing, regulatory affairs, production, QA and sales.
- ✓ International project collaborations, including longer lasting stays in the US
- ✓ Collaboration with medical- and biotech partners, clinical pathology laboratories and physicians

Management

- ✓ Part-manager of the BRIC RNAi Core Facility, serving the University of Copenhagen
- ✓ Team-lead experience (1 academic, 4 laboratory technicians)
- ✓ Project manager (small to large scale international R&D projects)
- ✓ Laboratory technician reference relationships

Personality

- ✓ Flexible, professional and goal oriented
- ✓ Structured and loyal to deadlines
- ✓ Excellent interpersonal relations, being a team player
- ✓ Outgoing, with good communication skills and fluency in English
- ✓ Enthusiastic and dedicated towards science

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Overall Technical Expertise

Molecular Biology

- ✓ Taq Man RT-qPCR (microRNA, mRNA), PCR
- ✓ RNAi gene silencing techniques
- ✓ RNA and DNA purification
- ✓ Cloning, DNA sequencing
- ✓ E. Coli GST-fusion protein expression, protein purification, SDS-PAGE
- ✓ Mammalian- and stemcell transfection & virus transduction
- ✓ Cell culture techniques (e.g. U2OS, HEK, HUVEC, cancer cells)

Immunocyto - and histochemistry

- ✓ Quantitative peptide conjugation to cells for immunocytochemistry (ICC)
- ✓ ICC development for cervical smears, liquid-based cytology & fine needle aspirates
- ✓ Cells (cancer, HUVEC) in co-culture for 3D-Angiogenesis
- ✓ Cells (cancer, HUVEC) in culture on Chamberslides
- ✓ Cell & tissue paraffin embedding for immunochemistry
- ✓ In-dept knowledge of IHC optimization for automation; signal enhancement, background reduction, secondary visualization systems, chromogens, double stains
- ✓ In-dept knowledge of Dako antibody staining patterns
- ✓ Use of cryostat, microtome - cutting FFPE and frozen sections

In situ hybridization

- ✓ DNA ISH using Dako HER2, EGFR and TOP2A PNA FISH Assays
- ✓ mRNA ISH using probes generated by ³⁵S In Vitro Transcription
- ✓ microRNA ISH using LNA probes

Automation

- ✓ Hamilton MicrolabSTAR Liquid Handling Workstation (96-well, 384-well)
 - Dual-Glo Luciferase (Firefly / Renilla)
 - Cell Proliferation Assays (Edu, WST-1)
 - Immunofluorescence (AlexaFluor, GFP)
 - Mammalian cell transfection (siRNA, shRNA)
 - DNA Mini-prep & Normalisation
- ✓ Automated Immunohistochemistry
 - Instrument platform development
 - Visualization Kit development
 - Ready-to-use antibody development

Microscopy

- ✓ High-Content Automated Imaging and Quantitative Analysis (96-well, 384-well)
- ✓ Slide-based photo microscopy
- ✓ Manual Light & Fluorescence for histology

Electrophysiology

- ✓ Microinjection of DNA in Xenopus Oocytes, followed by protein expression analysis using Voltage Clamp

IT

- ✓ Microsoft Access Database
- ✓ Microsoft Project
- ✓ Adobe Photoshop Elements
- ✓ Microsoft Office 2007 (Excel, Word, Powerpoint)