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Biomedical Mass Spectrometry and Systems Biology  
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## Teaching portfolio

### Formal educational training

2011 The Lecturer Training Programme at the University of Southern Denmark  
2011 Introduction to e-learning activities and tools, Inge-Marie F. Christensen, University of Southern Denmark  
2011 Assessment and feedback, Prof. Phil Race, University of Plymouth  
2011 Digital assessment, Prof. Phil Race, University of Plymouth  
2012 Teaching with cases, Birgitta Wallstedt; University of Southern Denmark  
2012 How to use of Smart Boards as part of your teaching, Rie Troelsen and Lise Petersen University of Southern Denmark  
2014 Advanced meeting facilitation for experienced meeting leaders, Dr. Sandra Janoff, Future Search  
2018 Leader Introduction program at University of Southern Denmark

### Administrative tasks relating to education

Course leader/coordinator

2019 – Fundamental Biochemistry BMB532 (10 ECTS, 150 students)  
2017 – 2019 Fundamental Molecular Biology BMB504 (5 ECTS, 150 students)  
2012 – 2017 Laboratory exercises Fundamental Biochemistry BMB530 (1 ECTS, 180 students)

Outside the university

2012 - 2016 STSM coordinator in EU ROS BM1203 cost action programme

## Experience of study programmes, supervision and examinations

### Detailed list of courses and teaching activities:

2006-2008 - Advanced methods in Protein Chemistry and Proteomics, BM31  
Lecture title: 2D gel electrophoresis in proteomics; Level: master and PhD students  
2011-2013 - Bioinformatics in Mass Spectrometry-based Proteomics, BM71 Lecture title: Omics data analysis – applications of Ingenuity Knowledge Database; Level: master and PhD students  
2008-2013 - Mass Spectrometry in Protein Chemistry and Proteomics, BM63 Lectures titles: Introduction to proteomics – analytical strategies and applications; 2D gel electrophoresis in proteomics; Protein modifications – introduction to proteomics strategies; Level: master and PhD students  
2012-2019 - Natural Sciences project, NAT501; Projects: Fluorescent light from the oceans; Fish oil – a friend or a foe; Protein chlorination cardiovascular disease. Level: undergraduate students  
2012-2017 - Basic Biochemistry, BMB530, Responsible for laboratory exercises; Level: undergraduate students  
2008-2017 - Advanced methods in protein mass spectrometry and proteomics, BMB205 Lecture title: 2D gel electrophoresis in proteomics, Level: master and PhD students  
2007-2017 - EMBO Mass Spectrometry and Proteomics course, Lectures titles: Proteomics – analytical strategies and applications; 2D gel electrophoresis in proteomics; Modificomics – introduction to protein modifications; Introduction to Cysteine-PTMs and their characterization, Level: master and PhD students  
2013 – 2019 - Analytical biochemistry and sample preparation for Omics, Sino-Danish Center for Education and Research Lectures titles: 2D gel electrophoresis in practice, Applications of 2D gel electrophoresis in proteomics, Mass spectrometry identification of spots from 2D gels, Practical aspects of protein gel electrophoresis – design your own gel laboratory  
2013 – 2019 - Introduction to Omics, Sino-Danish Center for Education and Research Lectures titles: Gel based separation techniques in proteomics – principles and applications, Introduction to 2D gel electrophoresis, Principles of protein quantitation using mass spectrometry, Applications of quantitative mass spectrometry in molecular biology, Database searches and Database mining – bioinformatics approaches in proteomics.  
2017-2018 - Fundamental Molecular Biology BMB504 (5 ECTS) offered to pharmacy and biology students at their 2nd year of undergraduate study, course responsible and lecturer  
2019 - Fundamental Biochemistry BMB532 (10 ECTS) offered to biochemistry and biomedicine students at their 2nd year of undergraduate program, course responsible and lecturer

### Examination and external examiner tasks:

Examiner and external examiner in NAT501 course at SDU from 2011 - 2016 (undergraduate students).

Examiner at BMB504 course at SDU (2017), preparation and evaluation of multiple-choice exam (undergraduate students).

Examiner and co-examiner of Bachelor and Master exams for Katarzyna Wojdyla (Msc), Tina Nybo (Bachelor and ITEK), Ilona Staszewska (MSc), Jaonna Draus (Msc), Kamil Borkowski (Msc)

Co-examiner at PhD exams for Katarzyna Wojdyla (PhD), Andrey Tvardovsky (PhD), Tina Nybo (PhD)

**Supervision experience:**

Supervised and co-supervised 12 MSc students, 15 PhD students and 13 PostDocs.

## **Methods, materials and tools**

**Methods of teaching:**

lectures and presentations, interactive lectures supported by use of SMART board technology, e-learning, discussion groups, practical demonstrations, laboratory exercises, supervised individual work

**Methods of assessment:**

written multiple choice exam, oral exam, written report, discussion, and task oriented evaluation

**Supervision methods:**

direct supervision thorough individual discussions; feedback based supervision; group supervision based on the interaction of students in smaller groups;

**Analogue and digital teaching materials, including original productions:**

All my lectures/presentations are prepared electronically and are made available to the students either directly sent to them or via e-learning platforms.

For courses carried out as part of the Sino-Danish Center for Education and Research I also prepare extensive collection of current literature that is relevant to the topics discussed.

For practical courses and laboratory exercises I always prepare detailed instructions and protocols that are handed to the students either directly or via the e-learn platforms; I also use "home-made" instruction video films.