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1. Formal Education Training

2014: Participation at meetings for continuous education of clinicians 'Temadag om lægelig videreuddannelse', 30th of Jan., OUH.
2012: 1 day course for clinical supervisors for young doctors in the training for specialization 'Vejlederkursus for speciallæger', 17th of Sept., Region of Southern Denmark, Kolding.
2011: 'Kursus for ph.d.-vejledere/Course for PhD study supervisors', 7th- 8th of Nov., University of Southern Denmark.
2010: Course for national Inspectors (Inspektorer) for the Danish Health and Medicines Authority. 18th- 19th of May.
2009: 3 days course for consultants responsible for the training for specialization 'Den uddannelsesansvarlige overlæge og den nye speciallægeuddannelse', 5th- 6th, and 12th of Nov., Region of Southern Denmark, Middelfart.
2007: Participated in a teaching course ('pædagogiske principper og aktivering af studerende' og 'undervisning i små grupper') at the health faculty, Odense University Hospital.
2005: Participated in a course in Power Point presentation 'Præsentationsteknik med Power Point', 9th of May, Rigshospitalet (8 lectures).
2007: Participation in Nordic meeting on training for the speciality: Clinical Genetics 'Nordisk møde om speciallægeuddannelsen i Klinisk Genetik', 31st of May, Rigshospitalet, Copenhagen.
2001, April: Participated in 'pædagogisk kursus for yngre læger'. 24th -25th of April (20 lessons).
1994 - 1998: During my PhD study I have participated in a course in oral presentation and a postgraduate course in communication.
1992 - 1998: As a pre graduate and post graduate student I participated in international conferences on medical education (ex. the 5th Ottawa Conference on Assessment of clinical Competences, 1st- 3rd of Sept., Dundee, 1992 and AMEE conference in Athens, 4th - 7th of Sept. 1994).

2. Administrative tasks relating to education

Administrative experience relating to teaching

Postgraduate
2022, May -: Head of Research at the Research Unit of Clinical Genetics, Department of Clinical Research, Faculty of Health Sciences, University of Southern Denmark.
2020, Aug. -: Professor in Clinical Genetics, at the Human Genetics, Faculty of Health Sciences, University of Southern Denmark (25%).
2019: Course leader/delkursusleder on 'Kommunikation/Communication' as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines Authority, 24th- 25thd of Sept. UCN Sundhed, Aalborg.
2018: Course leader/delkursusleder on 'Course in Genetic Counselling/Genetisk Rådgivning' as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines and 3rd- 4th May, Sygehus Lillebælt, Vejle.
2016: Course leader/delkursusleder on 'Kommunkation/Communication' as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines Authority, 21st- 22nd of Sept. UCN Sundhed, Aalborg.
2015: Course leader/delkursusleder on 'Course in Genetic Counselling/Genetisk Rådgivning' as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines and 7th- 8th May, Sygehus Lillebælt, Vejle.
2014: Inspection (inspektorbesøg) at Department of Clinical Genetics, Aarhus, for the Danish Health and Medicines Authority, 4th of June.
2013: Inspection for the Danish Health and Medicines Authority at Department of Clinical Genetics, Aalborg Sygehus, 6th of Nov.
2013: Course leader/delkursusleder on 'Kommunkation/Communication' as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines Authority, 25th- 26th of Nov. UCN Sundhed, Aalborg.
2012: Inspection for the Danish Health and Medicines Authority at Department of Clinical Genetics, Rigshospitale,30th of August.
2012: Leader of the courses for young doctors in training for Clinical Genetics (hovedkursusleder), The Danish Health and Medicines Authority.
2012-2020: Course leader/delkursusleder on 'Course in Genetic Counselling/Genetisk Rådgivning' as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines Authority, 15th- 16th of March, Odense University Hospital, Odense
2010 -2018: External examiner in genetics (censor) at the graduate and undergraduate medical student at the Danish Universities.
2007 - 2016: Associate Professor with teaching responsibilities (klinisk lektor) at SDU. In charge of the bachelor module 3: 'Knowledge and information/viden og information' (now Module 4) (Modultovholder for Modul 3/4). This teaching module includes a medical genetics course, an academic research methods course, and a health psychology course for undergraduate medical and clinical biomechanics students.
As 'Modultovholder' I tried to facilitate coordination of the courses and to help the course responsible teacher

(sporansvarlige) to discuss and adjust the courses based on evaluations and feedback from the students, available teaching methods etc.
I have been deeply involved in both planning the genetic part of the course, in the development of teaching material for the instructors and in planning the assessment of students. In 2012 we revised the genetic curriculum for this module.
1995 - 1998: As a medical student I took part in the evaluation of the medical curriculum at Odense University and, thereafter, in planning the major revision to a more clinical oriented curriculum (basic doctor approach).
Report: 'Selvevalueringsrapport om Medicinstudiet ved Odense Universitet' (Evaluation Report on the Medical curriculum at Odense University).
Chairmanships and memberships of education related committees
2013 -: Responsible for the Research related module in the training programme for young doctors in their specialization for Clinical Genetics, Region of Southern Denmark (Den Lægelige videreuddannelse i Region Syd).http://www.videreuddannelsen-syd.dk/wm120021.
2012 - 2014: Chairman of the National Education Committee of the Danish Society of Medical Genetics. In this committee we made a major revision of the aims, the learning and evaluation methods for the specialization in Clinical Genetics. The revision resulted in more specific aims for the different areas of genetics (ex. neurogenetics). We expect that this will improve skills for collaboration with other specialties. It was largely inspired by the American Collegue of Medical Genetics 'Competencies for Physician Medical Geneticist in the 21st Century.
2012 - 2014: Chairman of the National Evaluation of Applicants Board for Specialization in Clinical Genetics (Det nationale ansættelseudvalg i specialet Klinisk Genetik).
2012 - 2014: Chairman of the Regional Education Committee in the Region of Southern Denmark (Den Lægelige videreuddannelse i Region Syd).
2009 - 2012: Member of the National Evaluation of Applicants Board for Specialization in Clinical Genetics (Det nationale ansættelseudvalg i specialet Klinisk Genetic).
2006 - 2008: Member of the National Education Committee, Danish Society of Medical Genetics, representative of the young doctors in training for Clinical Genetics.
1995 - 1996: Students representative in the PhD study board (Ph.d.-studienævnet), Odense University.
1991 - 1995: Students representative in the study board for the medical study (Studienævn for Medicin) at Odense University.

3. Experience of study programmes, supervision and examinations

Teaching activities

Bachelor
2019 -: Lecture on Genetic counselling and ethical issues Module 4: biomedicin sporet (genetik)', for bachelor students in Medicine and Clinical Biomechanics, University of Southern Denmark. (1 hour per semester, app. 130 - 150 students).
2010 -: Lecture on Genetic counselling and prenatal diagnostics 'Genetisk rådgivning' Module 3/4: biomedicin sporet (genetik)', for bachelor students in Medicine and Clinical Biomechanics, University of Southern Denmark. (1 hour per semester, app. 130 - 150 students).
2007 - 2008: Lectures on Chromosomes and chromosome abnormalities 'Kromosomer' and 'Cytogenetiske analysemetoder', Module 3: 'Knowledge and Information/Viden og information, biomedicine sporet (genetik)' for bachelor students in Medicine and Clinical Biomechanics, University of Southern Denmark. (2 hour per semester, app. 130 - 150 students).
2007, Spring: Instructor, Module 3: 'Knowledge and Information/Viden og information, biomedicin sporet (genetik)' for bachelor students in Medicine and Clinical Biomechanics, University of Southern Denmark. (20 hours per semester, app 30 students).
2006 - 2007: Lectures on chromosomes and chromosome abnormalities 'Kromosomsæt, germatogese og kromosomanomalier', Molekulær Biomedicin B, Molekylære Biologi og Human Genetik) (2 hours per semester, app. 130 - 150 students).
2002 - 2006: Instructor, 'Molekulær Biomedicin B, Molekylær Biologi og Human Genetik' for bachelor students in Medicine. (app. 10 - 12 hours per semester, app. 30 students).

Graduate
2019 -: Lectures on part/blok K8 (Mor og Barn) 'Medfødte sygdomme – syndrome/dysmorfologi', Medicine, University of Southern Denmark. (1 hour per semester, app. 60 - 80 students).
2009 -2018: Lectures on part/blok K8 (Mor og Barn) 'Kromosomsygdomme' and' Dysmorfologi', Medicine, University of Southern Denmark. (2 hours per semester, app. 60 - 80 students).
2009 - 2010: Lectures on part/blok K11 (sygdomme i nervesystemet og sensoriske organer) 'Neurogenetics' Medicine, University of Southern Denmark. (1 hour each semester, 60 - 80 students).
2006 - 2007: Lectures on part/blok 20 (Paediatrics), 'Ugekursus', in the final semester of pre-graduate study in medicine. 'Barnet der ser forkert ud', Medicine, University of Southern Denmark. (one hour per semester).
2002 - 2004: Problem based learning. Theme: 'Mor og Barn/Mother and Child', Blok/Part 12. Medicine, University of Southern Denmark. (4 hours per semester, 3 groups of 6 - 8 students).
2001 - 2002: Introduction to 'Kromosomundersøgelser/Chromosome analysis' and a practical presentation of the cytogenetics laboratory, in the course 'Molekylær Patofysiologi/Molecular pathophysiology', 'Human patofysiologi/Human pathophysiology', cand. scient. students. (2 hours per semester, 10 - 20 students).

Postgraduate
2021: Teaching at the Course on 'Course in Dysmorphology and syndromes' title: 'Generelle principper for

syndromudredning' as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines Authority, 19th – 20th of April, on line.
2017: Lecture on 'General principles in Dysmorphology/Generelle principper for syndromudredning' in the 'Course in dysmorphology' as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines Authority, 8th- 9th of Nov., Aalborg Sygehus Nord, Aalborg. (1 hour, app. 16 physicians in training for specialization in Clinical Genetics).
2015: Lecture on genetic counselling and quality in genetic counselling 'Hvad er formålet med genetisk rådgivning og hvad er kvalitet i genetisk rådgivning' in the 'Course in Genetic Counselling/Genetisk Rådgivning' as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines Authority, 7th- 8th of May, Sygehus Lillebælt, Vejle. (1 hour, app. 12 physicians in training for specialization in Clinical Genetics).
2012 -2020: Lectures on national course for Clinical Geneticist in-training (introduktionsstiling), Odense University Hospital, 'Genetic counselling' and 'Dysmorphology' (2 - 3 hours per year, 4- 6 physicians in training for specialization in Clinical Genetics).
2012: Lecture on genetic counselling and quality in genetic counselling 'Hvad er formålet med genetisk rådgivning og hvad er kvalitet i genetisk rådgivning' in the 'Course in Genetic Counselling/Genetisk Rådgivning' as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines Authority, 15th- 16th of March, Odense University Hospital. (1 hour, app. 25 physicians in training for specialization in Clinical Genetics).
2008: Lecture on genetic counselling and quality in genetic counselling 'Kvalitetssikring inkl. International og nationale Guidelines. Oplæg og diskussion' in the 'Course in Genetic Counselling/Genetisk Rådgivning' as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines Authority, 21st- 22nd of March, Odense University Hospital. (1 hour, app. 5 physicians in training for specialization in Clinical Genetics).
2006: Lecture on the molecular genetics and porphyria 'Porfyri, molekylærgenetisk baggrund, EPP og PCT cases' in the 'Genetics, genodermatosis and dermatologi in children/Genetik, genodermatoser og børnedermatologi m.v.' as part of the training for specialization in Dermatology, by the Danish Health and Medicines Authority, 8th- 10th of Nov., Odense University Hospital. (1 hour, app. 10 physicians in training for specialization in Dermatology).

Other teaching activities
2020: Facilitator of an on line strategic meeting at Danish Society of Medical Genetics using the interactive tool 'Mural', 2nd of November, on line.
2009-2010: Mentor for a young cand. med. in her first year as medical doctor 'Yngre Lægers mentorordning for KBU-læger'.
2002: Planning and participation at 'Patientens dag' at Odense University Hospital, 26th of May, Odense University Hospital, Odense.
2002: Course responsible for 1 day course for biotechnicians in 'Sygdom, sundhed og normalitet' (Disease, health and normality) by cand.mag. Jacob Ousager, 4th of Nov., Odense University Hospital, Odense.

Supervision
Bachelor
2001 - 2003: 'Klinisk lærer/supervisor' supervisor of tutors for 1st semester medical students and as evaluator of the presentations performed by the new students (in groups) in their 'studiestarts opgave', University of Southern Denmark. (16 hours per semester, supervision of 4 - 6 tutors, and evaluation of app. 30 - 40 students).
1998 - 1999: Employed as 'faglig tutor/supervisor' for 1st semester medical students at Odense University. (app. 20 hours, 6 - 8 students).

Graduate
2020-2021: Supervisor of Julie Bejrrelund in her one year research project: Familial Multiple Lipomatosis (FML) – identification of a monogenic ethology applying whole genome sequencing, (grade 12).
2017: Supervisor of Anna Boye Kromann in her Master thesis in Medicine (kandidateksamen) 'Pigmentary mosaicism' (grade 12).
2015 -2016: Supervisor of Torkild Høieggen Pedersen and Ole Magnus Bjørgaas Helle in their Master Thesis in Medicine (kandidateksamen) 'Analysis for mosaicism in parents of patients with Alport syndrome caused by de novo mutations in COL4A5, using next generation sequencing' (grade 12 for both).
2014 -2015: Supervisor of Inas Kamal MA and Nurcan Aydemir in their planned Master Thesis in Medicine (kandidateksamen) 'Pigmentmosaicisme/Mosaicism in cutaneous Pigmentation'.
2014 - 2015: Supervisor of Marie Krab Henningsen in her one year research project on Mutations in genes related to Noonan syndrome and other RASopathies in children with valvular pulmonal stenosis 'Forekomst af mutationer i gener associeret med Noonan syndrome hos børn med pulmonalstenose'.
2012 - 2013: Supervisor of Malene Dam Rasmussen, Master Thesis in Medicine 'Genotype og fænotype ved neurofibromatose type 1/Genotype and Phenotype Studies in Neurofibromatosis Type 1' (grade 12).
2010 - 2011: Supervisor of Britt-Marie Karolina Halvarsson, Master, Thesis in Medicine 'Genetik og embryologi ved esophagus atresi/Genetic and Embryologic Aspects of Esophageal Atresia' (grade 7).
2011: Supervisor of Randi Magnussen and Karin Magnussen in their Master Thesis in Medicine concerning Array CGH and Fragile X analysis 'Analysestrategi ved genetisk udredning af børn med forsinket udvikling' (grade 12).
2008: Main supervisor of Anne Marie Jelsig, Master Thesis in Medicine, 'Identification of HNPCC-families based on information in surgical journals, IHC, MSI etc. in a cohort of CRC patients'. (grade 12).
2006: Co-supervisor of Pia Schnedker Boman, Master Thesis in Medicine, 'Genetic counselling in hereditary colorectal cancaer (HNPCC)/ Genetisk rådgvning for arvelig kolorectal cancer (HNPCC).

Postgraduate
2022, Dec. –: Main supervisor of PhD study 'Identification of theunderlying genetic mechanisms in patients with skeletal dysplasias to improvediagnosis, genetic counseling and patient follow-up'.
2019-: Main supervisor of PhD study by cand. med. Stine Bjørn Gram
Title of project: 'Improved Genetic Characterisation and Diagnostics in Hereditary Palmoplantar Keratoderma: A Cohort Study'.
2015-2019: Main supervisor of PhD study by cand. med. Aia Elise Jønch
Title of project: 'Cognitive, behavioral and molecular correlates of the
15q11.2 copy number variants'.
2012 - 2016: Main supervisor of PhD study by cand. med. Anne Marie Jelsig.
Title of thesis: 'Hamartomatous polyps – a Clinical and Molecular Study'.
2010 - 2014: Supervisor of PhD study by cand. Med. Pernille M Tørring.
Title of thesis: 'Genotyping and Gene Expression Profiling in Hereditary Haemorrhagic Telangiectasia'.

Evaluation

Bachelor
2021-: Preparing the questions for the written examinations in genetics, Modul 4, bachelor in Medicine and Clinical Biomechanics. (written exam with multiple choice questions and questions to give short text answers/short essay), University of Southern Denmark.
2007 - 2015: Preparing the questions and performing the evaluation at the written examinations in genetics, Modul 3/4, bachelor in Medicine and Clinical Biomechanics. (written exam with multiple choice questions and questions to give short text answers/short essay), University of Southern Denmark.

Written exams in genetics outside University of Southern Denmark (more than 50 students)
2014: Genetics, Bachelor level, Human Genetics at Aarhus University.
2013: Genetics, Bachelor level, Human Genetics at Copenhagen University.
2012: Genetics, Bachelor level, Human Genetics at Aarhus University.

Individual evaluations (opponent) written and oral
2014: Bachelor project by stud. med. Diana Haunstrup Bregner Overgaard, at Copenhagen University. Title: 'Familial Colorectal Cancer Type X'. Supervisor: Associate Professor Marie Luise Bisgaard.
2013: Bachelor project in Genetics and Epigenetics by stud. med. Jane Zacho, at Aarhus University. Title: 'The Autoimmune Disease Hashimoto's Thyroiditis - Current Aspects of Genetic Discoveries'. Supervisors: Jakob Grove and Arne Lund Jørgensen.
2012Bachelor project by Fie B. Tinning, at Copenhagen University. Title: Geno-fænotype korrelationer ved Li-Fraumeni syndrom. Supervisor: Associate Professor Marie Luise Bisgaard.
2011: Bachelorproject by stud. med. Mathilde Holmskov, at Copenhagen University. Title: 'Karakteristika ved arvelig og sporadisk ventrikelcancer'. Supervisor: Associate Professor Marie Luise Bisgaard.
2011: Bachelor project by stud. med. Josefine Gutte Koch, at Copenhagen University. Title: 'Lynch syndrom/HNPCC og gynækologisk cancer'. Supervisor: Associate Professor Marie Luise Bisgaard.

Individual evaluations (opponent) written exam only
2018: Bachelor project by stud. med. Nanna Lyshøj Jensen, at Aarhus University.
Title: 'Pre- and postnatal 16p11.2 deletion and duplication syndrome in Denamrk' Supervisor: Else Marie Vestergaard.
2015: Bachelor project by stud. med. Kim Morgenstjerne Ørskov, at Aarhus University.
Title: 'Clinical application of whole-exome sequencing' Supervisor: Francesco Lescai.
Bachelor project by stud. med. Nicoline Vestergaard Bull, at Aarhus University.
Title: 'Validity of reported family history of cancer' Supervisor: Lone Sunde.
2014: Bachelor project by stud. med. Thomas Engell-Sørensen, at Aarhus University. Title: 'DTC genome sequencing and perspective of customers and physicians involved' Supervisor: Francesco Lescai.
2013: Bachelor project by stud. Med. Jesper Dahl Stender, at Aarhus University. Title:' Can we trust the interpretation of our genetic profile?' Supervisor: Francesco Lescai.

Graduate
2019: Participation in design of OSCE evaluation post (written test) for the final examination in Medicine, University of Southern Denmark.
2019: Participation in design and evaluation at OSCE evaluation post (with actresses) for the final examination in Medicine, 6th of June. University of Southern Denmark.
2017: Participation in design and responsible for student evaluation at an OSCE evaluation post (written test) for the final examination in Medicine, 3rd of Jan., University of Southern Denmark (> 100 students).
2016: Participation at a post at OSCE evaluation of Blok 8 'Mor og Barn' in medicine. Test in 'Obstetrics, paediatrics and genetics', 12th of May, Health Faculty, University of Southern Denmark (> 100 students).
2014: Participation in design of OSCE evaluation post (with actresses) for the final examination in Medicine, University of Southern Denmark.
2012: Participation in design of OSCE oral evaluation post (with actresses) and participation at the post (10th of Jan) for the final examination in Medicine, University of Southern Denmark.

2011: Censor at the oral re-examination in Blok8 ‘Mor og Barn’ in Medicine, 16th of August, University of Southern Denmark. (10 students).
2009: Responsible design of OSCE evaluation post (written test) on dysmorphology, evaluation of Blok 8 ‘Mor og Barn’ in Medicine, University of Southern Denmark.
2003: Participation at the post at OSCE evaluation of Blok 8 ‘Mor og Barn’ in medicine. Test in ‘Almen medicin’ and ‘Arbejdsmedicin’, 14th of March, Health Faculty, University of Southern Denmark.

Individual evaluations (opponent) written and oral
2014: Master Thesis by stud. med. Anne-Sophie Stendell, at Copenhagen University.
Title: ’In how many patients with retinal hemangioma is von Hippel-Lindau disease (vHL) the underlying cause?’
Supervisor: Associate Professor Marie Luise Bisgaard.
2013: Master Thesis by stud. med. Janne Bayer Anderesen, at Copenhagen University. Title: ‘Genetisk test af børn i risiko for lidelser, som sjældent kan debutere i barnealderen. Supervisor: Professor Karen Brøndum Nielsen.
2011: OSVAL II project by stud. med. Marlene Tellef, at Copenhagen University. Title: ’Indgår nyre- og blærecancer i Lynch-syndrom? Udgør patienterne en undergruppe, hvad angår muterede gener, køn og alder? Supervisor: Professor Anne Marie Gerdes.

Post graduate
Individual evaluations (opponent) written and oral
2018: Evaluation of ‘forskningstrænings-modul’ in the specialization in Clinical Genetics, Mathilde Lauridsen ’Opsporing og rådgivning af biologiske slægtninge af blokerede sæddonorer – kan dette optimeres?’, 2nd June, Odense University Hospital.
2015: Chairman of Evaluation Committee on PhD Thesis ‘Mutiple sclerosis: Searching for the missing heritability in the isolated Faroe Islands’ by Stefanie Binzer, cand. med., Department of Regional Health Research, Faculty of Health Sciences, University of Southern Denmark.
2013: Evaluation of ‘forskningstrænings-modul’ in the specialization in Clinical Genetics, Aia Elise Jønch, ’Investigation of Methylation Status of FMR1 Premutation Carriers’, 14th of June, Odense University Hospital.
2012: Evaluation of ‘forskningstrænings-modul’ in the specialization in Clinical Genetics, Sanne Møller Trasdahl, ’Akut Intermitterende Porfyri: Molekylærgenetisk analyse af PBGD genet I Danmark (2006 - 2011)’, Odense University Hospital.
2011: Chairman of Evaluation Committee on PhD Thesis ‘Twin-singleton differences in Denmark in the 20th Century’ by Inge Petersen, MSc, Faculty of Health Sciences, University of Southern Denmark.

4. Methods, materials and tools

Teaching methods
Pre and postgraduate lectures (for more than 100)
2019 -: Lecture on Genetic counselling and ethical issues Module 4: biomedicin sporet (genetik)’, for bachelor students in Medicine and Clinical Biomechanics, University of Southern Denmark. (1 hour per semester).
2010 -: Lecture on Genetic counselling and prenatal diagnostics ‘Genetisk rådgivning’ Module 3/4: ‘Biomedicin sporet (genetik)’, for bachelor students in Medicine and Clinical Biomechanics, University of Southern Denmark. (1 hour per semester).
2007 - 2008: Lectures on Chromosomes and chromosome abnormalities ‘Kromosomer’ and ‘Cytogenetiske analysemetoder’, Module 3: ‘Knowledge and Information/Viden og information, biomedicine sporet (genetik)’ for bachelor students in Medicine and Clinical Biomechanics, University of Southern Denmark. (2 hour per semester).
2006 - 2007: Lectures on Chromosomes and chromosome abnormalities ’Kromosomsæt, germatogese og kromosomanomalier’, Molekulær Biomedicin B, Molekylære Biologi og Human Genetik) (2 hours per semester).

Lectures (for less than 100)
2022: Lecture at FMOL Introduction, SDU/AAU on my experience as master in public governance student (1 hour per semester, app. 40 students).
2019 -: Lectures on part/blok K8 (Mor og Barn) ’Medfødte sygdomme – syndrome/dysmorfologi’, Medicine, University of Southern Denmark. (1 hour per semester, app. 60 - 80 students).
2009 -2018: Lecture on part/blok K8 (Mor og Barn) ’Kromosomsygdomme’ and’ Dysmorfologi’, Medicine, University of Southern Denmark. (2 hours per semester, app. 60 - 80 students).
2009 - 2010: Lecture on part/blok K11 (sygdomme I nervesystemet og sensoriske organer) ’Neurogenetics’ Medicine, University of Southern Denmark. (1 hour each semester, 60 - 80 students).
2006 - 2007: Lecture on part/blok 20 (Paediatrics), ’Ugekursus’, in the final semester of pre-graduate study in medicine. ‘Barnet der ser forkert ud’, Medicine, University of Southern Denmark. (one hour per semester).

Lectures for small groups (less than 20)
2018: Teaching at ‘Course in Genetic Counselling/Genetisk Rådgivning’ title:’Hvad er formålet med genetisk rådgivning og hvad er kvalitet i genetisk rådgivning’ as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines Authority, 2nd 3rd of May, Odense University Hospital, Odense.
2017: Teaching at the ‘Course in Dysmorphology and syndromes’ title: ‘Generelle principper for syndromudredning’ as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines Authority, 8th – 9th of Nov., Aalborg University Hospital, Aalborg.
2015: Lecture on genetic counselling and quality in genetic counselling ‘Hvad er formålet med genetisk rådgivning og hvad er kvalitet i genetisk rådgivning’ in the ‘Course in Genetic Counselling/Genetisk Rådgivning’ as part of the training for

specialization in Clinical Genetics, by the Danish Health and Medicines Authority, 7th- 8th of May, Sygehus Lillebælt, Vejle. (1 hour, app. 12 physicians in training for specialization in Clinical Genetics).
2012: Lecture on genetic counselling and quality in genetic counselling 'Hvad er formålet med genetisk rådgivning og hvad er kvalitet i genetisk rådgivning' in the 'Course in Genetic Counselling/Genetisk Rådgivning' as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines Authority, 15th- 16th of March, Odense University Hospital. (1 hour, app. 25 physicians in training for specialization in Clinical Genetics).
2012 - 2020: Lectures on national course for Clinical Geneticist in-training (introduktionsstiling), Odense University Hospital, 'Genetic counselling' and 'Dysmorphology' (2 - 3 hours per year, 4 - 6 physicians in training for specialization in Clinical Genetics).
2006: Lecture on the molecular genetics and porphyria 'Porfyri, molekylærgenetisk baggrund, EPP og PCT cases' in the 'Genetics, genodermatosis and dermatologi in children/Genetik, genodermatoser og børnedermatologi m.v.' as part of the training for specialization in Dermatology, by the Danish Health and Medicines Authority, 8th- 10th of Nov., Odense University Hospital. (1 hour, app. 10 physicians in training for specialization in Dermatology).

Lectures for small groups combined with a more practical approach to the topic (less than 20)
2008: Lecture on genetic counselling and quality in genetic counselling 'Kvalitetssikring inkl. International og nationale Guidelines. Oplæg og diskussion' in the 'Course in Genetic Counselling/Genetisk Rådgivning' as part of the training for specialization in Clinical Genetics, by the Danish Health and Medicines Authority, 21st- 22nd of March, Odense University Hospital. (1 hour, app. 5 physicians in training for specialization in Clinical Genetics).
2001 - 2002: Introduction to 'Kromosomundersøgelser/Chromosome analysis' and a practical presentation of the cytogenetics laboratory, in the course 'Molekylær Patofysiologi/Molecular pathophysiology', 'Human patofysiologi/Human pathophysiology', Cand. Scient. students. (2 hours per semester, 10 - 20 students).

Classes (of app. 20-40) solving pre-defined questions
2007, Spring: Instructor, Module 3: 'Knowledge and Information/Viden og information, biomedicin sporet (genetik)' for bachelor students in Medicine and Clinical Biomechanics University of Southern Denmark. (20 hours per semester).
2002 - 2006: Instructor,'Molekulær Biomedicin B, Molekylær Biologi og Human Genetik' for bachelor students in Medicine. (app. 10 - 12 hours per semester, app. 30 students).

Problem based leaning methods
2002 - 2004: Problem based learning. Theme: 'Mor og Barn/Mother and Child', Blok/Part 12. Medicine, University of Southern Denmark. (4 hours per semester, 3 groups of 6 - 8 students).

Evaluation methods
Oral examination (in groups)
2001 - 2003: 'Klinisk lærer/supervisor' supervisor of tutors of for 1st semester medical students and as evaluator of the presentations performed by the new students (in groups) in their 'studiestarts opgave', University of Southern Denmark. (16 hours per semester, supervision of 4 - 6 tutors, and evaluation of app. 30 - 40 students).

Oral examination (individually): Discussion of how to solve a clinical problem
2011: Censor at the oral re-examination in Blok8 'Mor og Barn' in Medicine, 16th of August, University of Southern Denmark. (10 students).

Defense of report/thesis: presentation and discussion
2021: Chairman of Evaluation Committee on PhD Thesis ' Generalized association analysis of omics data on cognitive aging' by Afsaneh Mohammadnejad, Department of Public Health, Faculty of Health Sciences, University of Southern Denmark.2018: Evaluation of 'forskningstrænings-modul' in the specialization in Clinical Genetics, Mathilde Lauridsen 'Opsporing og rådgivning af biologiske slægtninge af blokerede sæddonorer – kan dette optimeres?', 2nd June, Odense University Hospital.
2015: Chairman of Evaluation Committee on PhD Thesis 'Mutiple sclerosis: Searching for the missing heritability in the isolated Faroe Islands' by Stefanie Binzer, cand. med., Department of Regional Health Research, Faculty of Health Sciences, University of Southern Denmark.
2014, Okt.: Master Thesis by stud. med. Anne-Sophie Stendell, at Copenhagen University.
Title: 'In how many patients with retinal hemangioma is von Hippel-Lindau disease (vHL) the underlying cause?'
Supervisor: Associate Professor Marie Luise Bisgaard.
2014, Feb.: Bachelor project by stud.med. Diana Haunstrup Bregner Overgaard, at Copenhagen University. Title: 'Familial Colorectal Cancer Type X'. Supervisor: Supervisor: Associate Professor Marie Luise Bisgaard.
2013, May: Bachelor Project in Genetics and Epigenetics by stud. med. Jane Zacho, at Aarhus University. Title: 'The Autoimmune Disease Hashimoto's Thyroiditis - Current Aspects of Genetic Discoveries'. Supervisors: Jakob Grove and Arne Lund Jørgensen.
2013: Master Thesis by stud. med. Janne Bayer Anderesen, at Copenhagen University. Title: 'Genetisk test af børn i risiko for lidelser, som sjældent kan debutere i barnealderen. Supervisor: Professor Karen Brøndum Nielsen.
2013: Evaluation of 'forskningstrænings-modul' in the specialization in Clinical Genetics, cand. med. Aia Elise Jønch, 'Investigation of Methylation Status of FMR1 Premutation Carriers', 14th of June, Odense University Hospital.
2012 :Evaluation of 'forskningstrænings-modul' in the specialization in Clinical Genetics, cand. med. Sanne Møller Trasdahl, 'Akut Intermitterende Porfyri: Molekylærgenetisk analyse af PBGD genet I Danmark (2006 - 2011)', Odense University Hospital.

2012: Bachelor project by stud. med. Fie B. Tinning, at Copenhagen University. Title: Geno-fænotype korrelationer ved Li-Fraumeni syndrom. Supervisor: Associate Professor Marie Luise Bisgaard.
2011: Bachelor project by stud. med. Josefine Gutte Koch, at Copenhagen University. Title: 'Lynch syndrom/HNPCC og gynækologisk cancer'. Supervisor: Associate Professor Marie Luise Bisgaard.
2011: Bachelorproject by stud. med. Mathilde Holmskov, at Copenhagen University. Title: 'Karakteristika ved arvelig og sporadisk ventrikelcancer'. Supervisor: Associate Professor Marie Luise Bisgaard.
2011: OSVAL II project by stud. med. Marlene Tellef, at Copenhagen University. Title: 'Indgår nyre- og blærecancer i Lynch-syndrom? - udgør patienterne en undergruppe, hvad angår muterede gener, køn og alder? Supervisor: Professor Anne Marie Gerdes.
2011: Chairman of Evaluation Committee on PhD Thesis 'Twin-singleton differences in Denmark in the 20th Century' by Inge Petersen, MSc, Faculty of Health Sciences, University of Southern Denmark.

OSCE examination (oral)
2019, spring: Participation in design and examination at an OSCE evaluation post (oral) for the final examination in Medicine, University of Southern Denmark.
2016: Participation in design and examination at an OSCE evaluation post (oral) for the final examination in Medicine, University of Southern Denmark.
2014: Participation in design of OSCE evaluation post (oral with actresses) for the final examination in Medicine, University of Southern Denmark.
2012: Participation in design of OSCE evaluation post (oral with actresses) and participation at the post (10th of Jan) for the final examination in Medicine, University of Southern Denmark.
2003: Participation at the post at OSCE evaluation of Blok 8 'Mor og Barn' in medicine. Test in 'Almen medicin' and 'Arbejdsmedicin', 14th of March, Health Faculty, University of Southern Denmark.

Written exams -MCQ
2007 - 2015: Preparing the questions and performing the evaluation at the written examinations in genetics, Module 3, bachelor in Medicine and Clinical Biomechanics.
Approximately half of the questions in this exam are MCQs.
Written response: Short answers on specific questions (calculations, definitions and explanations)
2007 - 2015: Preparing the questions and performing the evaluation at the written examinations in genetics, Module 3/4, bachelor in Medicine and Clinical Biomechanics.
Approximately half of the questions in this exam are questions to be solved giving short descriptions, explanations or calculations.
2014: Genetics, Bachelor level, human Genetics at Aarhus University.
2013: Genetics, Bachelor level, Human Genetics at Copenhagen University.
2012: Genetics, Bachelor level, human Genetics at Aarhus University.

Essays/reports
2018: Bachelor project by stud. med. Nanna Lyshøj Jensen, at Aarhus University.
Title: 'Pre- and postnatal 16p11.2 deletion and duplication syndrome in Denmark' Supervisor: Else Marie Vestergaard.
2014: Bachelor project by stud. med. Thomas Engell-Sørensen, at Aarhus University. Title: 'DTC genome sequencing and perspective of costumers and physicians involved' Supervisor: Francesco Lescai.
2013: Bachelor project by stud. med., at Aarhus University.
Title: 'Genetiske forandringer ved ventrikelseptumdefekt (VSD)' Supervisor: Else Marie Vestergaard.
2013: Bachelor project by stud. med. Jesper Dahl Stender, at Aarhus University. Title:' Can we trust the interpretation of our genetic profile?' Supervisor: Francesco Lescai.

OSCE examination (written)
2019: Participation in design at an OSCE evaluation post (written test) for the next final examination in Medicine, Jan. 2020, University of Southern Denmark.
2017: Participation in design and responsible for examination at an OSCE evaluation post (written test) for the final examination in Medicine, 3rd of Jan., University of Southern Denmark.
2016: Responsible for design of OSCE evaluation post (written test) on Down syndrome, evaluation of Blok8 'Mor og Barn' in Medicine, University of Southern Denmark.
2009: Responsible design of OSCE evaluation post (written test) on dysmorphology, evaluation of Blok 8 'Mor og Barn' in Medicine, University of Southern Denmark.

Supervison

Supervision (of groups)
2001 - 2003: 'Klinisk lærer/supervisor' supervisor of tutors of 1st semester medical students.
1998 - 1999: 'Faglig tutor/supervisor' for 1st semester medical students at Odense University. (app. 20 hours, 6 - 8 students).

Individual supervision
Please see 'Experience of study programmes, supervision and examinations, Supervision' above for a list of individually supervised bachelor, graduate and post graduate students.

2007 -: In addition to this I have been supervisor for a number of young doctors in training for specialization in Clinical Genetics where we use both individual supervision, supervision in groups and supervision of specified clinical elements in genetic counselling and laboratory related competences.

Analog and Digital Teaching Material and Educational Development

Lectures
For all of the above motioned lectures I have prepared Power Point presentations. These (or a selection of the presented slides) are made available for the student before or immediately after the presentation. In order to be able to activate and involve the students I introduce some questions, small discussions or clinical cases that may not be in the version available before the lecture.

Lectures for small groups combined with a more practical approach to the topic (less than 20)
For these lectures I have prepared PowerPoints as well.
For the course in 'Genetic Counselling' I have in addition prepared a template for quality assessment of a specific self-selected part of genetic counselling and some questions to discuss in groups of 2.
For practical presentation of a cytogenetic laboratory I have made clinical cases to be presented together with the chromosomal abnormalities in the cytogenetic laboratory.

Lectures for small groups (less than 20)
For the lectures on the national course for Clinical Geneticist in-training (introduktionsstiling) I have presented clinical cases and used these interactive for suggestions of dysmorphic features. These suggestions are then discussed and applied on dysmorphology databases (that they need to be introduced to) as tools for finding the right diagnose.

Classes (of app. 20 - 40) solving pre-defined questions
As responsible for the teaching of genetics in bachelor module 3/4 I reviewed questions on topic from other teachers and developed standard results/suggestions for result as a help for the instructors. Fore several of the topics I developed new teaching material. The material is all available on e-learn for students and instructors and is more or less unchanged still in use.

Groups (of app. 8 - 10) solving pre-defined questions
As responsible for the teaching of genetics at the bachelor module 3/4 I developed 4 cases with predefined questions on more clinical oriented problems for 2x2 hours group sessions in which students try to solve these cases with help for the instructor if needed. Standard result (or suggestions for result) are available on e-learn for the students shortly after the lessons.

The development of teaching material for both classes and groups of students was supported by the Faculty of Health Sciences (salary for dedicated medical student helping me).

Evaluations
As responsible for teaching of genetics at the bachelor module 3/4 I developed assessment method as a combination of MCQ and questions to be answered by short answers, calculations etc. and I have designed a number of both types of questions over the years.
Until 2013 the exams were analogue, but in autumn 2013 the examinations became digital.

5. Reflection on teaching practice and future development

My interest in teaching and planning of education started already when I was pre-graduate. I was in the study board for the medical study and took part in evaluation of the medical curriculum and thereafter, in planning the major revision to a more clinical oriented curriculum (basic doctor approach).
From early on I was involved in teaching, first at the introduction courses for new students as an educational tutor (faglig tutor), as supervisor of educational tutors, and as assessor of the 'studiestartsopgave'. Later I was instructor in genetics and got experience with teaching in groups of 25 - 30 students. It was a privilege to teach the same group of students during a full semester, partly because it gave better access to and understanding of the students' evaluations and their reflections on the methods used. I have given lectures on different topics on bachelor, graduate, and postgraduate level and thereby gained experience with several methods of teaching, and with teaching of different group sizes at different educational levels.
When planning lectures I try to focus on students' expected learning outcomes, their expected level of knowledge and understanding of the topics, and on how they should be able to use the knowledge in their professional life afterwards. By presenting this for the students they can assess their level of knowledge during and after the lecture. I always try to link the more basic topics to clinical/practical examples as it is usually motivating for the medical students to be able to see how the knowledge will be valuable for their future clinical work. I try to encourage students' reflections on the topics presented, even at lectures for larger groups of students.
When I became responsible for the bachelor module in medicine and clinical biomechanics, Module 3 'Viden og information' my first task was to develop a study guide and teaching materials and to coordinate the genetics-topics with other topics covered in the module (e.g. health psychology, epidemiology, statistics, and qualitative methods). As this was done we collected experience and student evaluations and gradually improved the study guide, coordination of the courses etc. In 2012 I initiated a revision of the genetic course leading to changes in both topics and teaching methods.
As responsible for the training for specialization in Clinical Genetics at our department (uddannelsesansvarlig overlæge) I

have also been involved in planning the education of Clinical Genetics at a local, regional and national level. In the National Education Committee (DSMG) we made a major revision of the aims, the learning, and evaluation methods for the specialization in Clinical Genetics.
Based on this I feel I have a broad experience with the tasks related to teaching and educational development and have committed myself to writing three chapters in an student book on genetics (to be finished in spring 2020).
I have been supervisor on master theses in medicine, one year undergraduate research projects, and supervisor on PhD studies of witch one is ongoing.
As responsible for the training for specialization in Clinical Genetics I have been supervisor of younger colleagues and as head of department supervision is part of my daily work. Our department always gets fine evaluations by the doctors in training for specialization. I believe that this is partly because of an ability to create a positive and enthusiastic learning environment with respect for the individual. In my supervision, both on clinical issues and in research training, I continuously make an effort to select the best way to guide a specific student with focus on the best way to develop their abilities.

The main focus in the future development of my pedagogical practice will be on enhancing and fine tuning my capabilities and competences as teacher and supervisor for students at pre- and postgraduate level. Supervisors and clinical teachers should play a significant and positive role in students' development of his or her (research) talent. Therefore, it is high on my agenda to maintain a reflective practice that allows me to continuously enhance my abilities to live up to this responsibility.