

CHRISTINA ENGEL HØI-HANSEN

Education

2017	Expert in paediatric neurology incl. visiting fellow Great Ormond Street Childrens Hosp., UK.
2014	Paediatrician
2008	DMSc, Faculty of Health Sciences, University of Copenhagen.
2001	MD, University of Copenhagen.

Employments

2025-	Dept. Clinical Medicine, Copenhagen University, Professorial spokesman paediatrics (ordførende)
2021-	Clinical professor in paediatrics, Copenhagen University, Dept. Clinical Medicine (50%)
2017-	Consultant paediatric neurologist, Dept. of Paediatrics, Rigshospitalet
2014-2016	Paediatric neurology training: Dept. of Paediatrics, Neurology and Center for Rare Diseases
2008-2014	Specialization in paediatrics: Department of Paediatrics, Rigshospitalet and Hillerød Hospital
2006-2008	Medical internship in surgery, internal medicine, and general practice
2001-2006	Research assistant, Dept. of Growth and Reproduction, Rigshospitalet
1996	Research assistant, Dept. of Immunology, Rigshospitalet

Selected research and organisational employments

2023-	Member of the editorial board, Developmental Medicine and Child Neurology journal
2023-	Member of the board of the foundation Dronning Louises Børnehospitals Forskningsfond
2022-2024	Head of Clinical Research Unit for drug testing, Dept. of Paediatrics, Rigshospitalet, member from 2024-
2022-	Member of the CP-Adapt international research collaboration
2021-2025	Head of the database steering group in the RKKP "Cerebral Parese Opfølgings Program"
2020-2026	Chair of the board of the Childrens Cancer Foundation (Børnecancerfonden)
2019-2024	Member of the board of the Danish Epilepsy Society, vice chair 2021-2023
2019-	Member of the board of the Center for Rehabilitation of Brain Injury
2018	Member of the steering group in the Danish Cerebral Palsy Register
2017-2021	Member of COST European Network on Brain Malformations (CA16118), STSM coordinator
2016-2024	Member of the European Society of Paediatric Neurology, committee of national advisors
2013-2018	Member of Danish Neuropaediatric Society board, Chair 2017-2018
2009-2014	Member of the editorial board of the Ugeskrift for Læger / Danish Medical Journal

Research focus

My early research focus was in basic science regarding embryonal stem cells and clinical implications. Current research focuses on early brain damage in children and related comorbidity, especially research areas that link translational research to the clinic. Children and adolescents with complex and rare neuropaediatric diagnoses, such as cerebral palsy, epilepsy, and neuromuscular diseases are the focus. A special interest is to identify the children early to be able to modify diagnosis, both disorders that can be difficult to identify early in the developing brain/the developing child. And disorders such as stroke where focus is on early triage to be able to give early treatment. Several research projects span across several diagnoses and focus on improved nutrition, cognitive impairment, and bone health to ensure optimal treatment across the life span for patients with neuromuscular disorders. Furthermore, several ongoing research projects have a base in the Danish CP register, where I am head of the database steering group and from the newly established RKKP epilepsy register, where I am member of the steering group. Projects span from mildly affected children with neurological disorders to critically ill children / palliative disease states.

Research supervision, review, and teaching

Currently ongoing supervision: PhD (11), master thesis (5), bachelor thesis (0).

Previous supervisions (main og co-supervisor): PhD (8), master thesis (10), bachelor thesis (8).

Assessment board of 6 PhD (1 Sweden, 5 DK). Assessment of 1 application for PhD and 2 professorships. Reviewer for 18 journals. Teaching of medical students and courses in specialization in pediatrics and neuropaediatrics.

Scientific conferences

In the period 2001-2026 participation in 42 international meetings, whereof 15 were with poster presentation and 10 oral presentations. More than 40 invited lectures in Denmark and abroad.

In 2013-2020 co-organiser of 6 annual meetings of the Danish Neuropaediatric and 2 in the Danish Epilepsy Society.

In 2018 head of organization committee of the Nordic Neuropaediatric Conference, Copenhagen, Denmark including a 2-day course for neuropaediatricians in training from the Nordic countries.

Funding received the last 5 years

As main applicant received funding in the last five years: 17.0M.

As co-applicant received funding in the last five years: 115.6M.

Clinical trials

Previous: Novartis/SMA; branaplam/SMA; TEVA/ deutetrabenazine for CP TEV-50717; Sarepta /Duchenne PI 4045-301, co-PI 4045-302; ataxia telangiectasia NEAT study. GCP training May 2025.

Publications

A total of 127 publications: 102 in peer-reviewed journals and 4 book chapters. 27 as first author, 24 as last author. H-index: 29 Web of Science, 32 Google Scholar

<https://www.webofscience.com/wos/author/record/2094489>

https://scholar.google.dk/citations?hl=da&user=J6kOoWsAAAAJ&view_op=list_works&sortby=pubdate

The 10 most important are:

1. Liu Y, Schubert J, Sonnenberg L, Helbig KL, Hoei-Hansen CE, Lauxmann S, Huq M, Schneider M, Johannesen KM, Gardella E, Becker F, Weber YG, Benda J, Møller RS, Lerche H. Neuronal Mechanisms of Mutations in SCN8A Causing Epilepsy or Intellectual Disability. *Brain* 2019;142:376-90.
2. Prével M, Rackauskaite G, Larsen ML, Laursen B, Lorentzen J, Born AP, Langhoff-Roos J, Uldall P, Hoei-Hansen CE. Children with dyskinetic cerebral palsy are severely affected as compared to bilateral spastic cerebral palsy. *Acta Paediatr* 2019; 108(10):1850-6.
3. Hoei-Hansen CE, Tygesen MLB, Dunoe M, Vissing J, Ballegaard M, Born AP. Combined Muscle Biopsy and Comprehensive Electrophysiology in General Anesthesia is Valuable in Diagnosis of Neuromuscular Disease in Children. *Neuropediatrics* 2021: doi: 10.1055/s-0041-1726120.
4. Larsen ML, Rackauskaite G, Pihl K, Uldall P, Greisen G, Krebs L, Hoei-Hansen CE. First trimester biomarkers and risk of cerebral palsy. *Early Human Development* 2022;167:105564.
5. Mattison K, Tossing G, Mulroe F, Simmons C, Butler K, ... Hoei-Hansen C, ... Hammer T, Møller R, Whitney A, Douglas A, Kharbada M, May H, Tao J, Dobyns W, Baines R, Warwicker J, Parker JA, Banka S, Campeau P, Escayg A. Heterozygous ATP6V0C Variants Cause a Neurodevelopmental Disorder Associated with Epilepsy and Impair Vacuolar H⁺-ATPase Function. *Brain* 2023;146:1357-72.
6. Thygesen LC, Lassen TH, Horsbøl TA, Mairey IP, Juel K, Hoei-Hansen CE, Michelsen SI. Mortality patterns in a Danish nationwide cohort of persons with intellectual disabilities. *J Intellect Disab* 2024 Jun;28(2):359-371.
7. De Knecht VE, Børresen ML, Knudsen M, Jakobsen AV, Thomsen KM, Uldall PV, Hoei-Hansen CE. Current state of hemispherectomy and callosotomy for pediatric refractory epilepsy in Denmark. *Brain Development* 2024 Mar;46(3):142-148. doi: 10.1016/j.braindev.2023.11.009.
8. Kirkeby K, Cocherell I, Christensen J, Hoei-Hansen CE, Holst L, Fredriksen MG, Lund C, Johannessen Landmark C. Pharmacokinetic variability of everolimus and impact of concomitant antiepileptic medications in patients with tuberous sclerosis complex. *Medicine* 2024 Aug 9;103(32):e39244.
9. Winther CH, Klein-Petersen AW, Prével M, Kofoed IR, Nissen IB, Axelgaard S, Green J, Boesen M, Miranda M, Hoei-Hansen CE. The incidence and outcome of infantile spasms in Denmark in 1996-2019. *Seizure* 2024 Aug;120:173-179. doi: 10.1016/j.seizure.2024.07.008.
10. Fogh MV, Clausen TD, Krebs L, Greisen G, Larsen ML, Hoei-Hansen CE. Increasing prevalence of cerebral palsy in children born very preterm in Denmark. *Dev Med Child Neurol* 2025 Jan;67(1):68-76.

Selected post-graduate courses

2023 PhD supervision course, KU.

2022 Leadership course for researchers, RH, 5 days.

2021 University pedagogics, University of Copenhagen, 5 days.

2017 Duchenne muscle dystrophy course, Treat NMD Society, Lissabon, three days.

2016 NNPS course on hereditary ataxias, Helsinki, two days.

2015 Neuropaediatrics specialization course, Budapest, EPNS, four days.

2013 Editing Medical Journals, Oxford, England, two days.

Author in www.NetDoktor.dk regarding cerebral palsy and in www.Sundhed.dk regarding alternating hemiplegia and Sturge Weber syndrome and www.promedicin.dk regarding epilepsy. Two podcasts regarding epilepsy and cerebral palsy.