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EDUCATION

2004: PhD, Department of Life Sciences and Chemistry, Roskilde University

1999: Master of Science (MSc) in chemistry and molecular biology, Department of Life Sciences and Chemistry, Roskilde University

1982: Laboratory technician certification, Laboratory Technician School, Copenhagen

PROFESSIONAL CAREER

Since 2006: Senior scientist and leader of the analytical chemistry laboratory, Dep. of Growth and Reproduction, Rigshospitalet, University of Copenhagen

2006: Scientist in the group of bioactive food components and vitamins at Department of Food Chemistry, Danish Institute for Food and Veterinary Research

2003-2005: Post doc in the group of prevention and life style diseases, Department of Toxicology and Risk Assessment, Danish Institute for Food and Veterinary Research

2000-2003: PhD student at the EU-project: Heterocyclic Amines in cooked foods - Role in Human Health. Institute of Food Safety and Nutrition, Danish Institute for Food and Veterinary Research

1983-1992: Laboratory Technician, the National Museum of Denmark

1982: Laboratory Technician, S. Dyrup and CO, Søborg, Denmark

1981-1982: Laboratory Trainee, Technical University of Denmark and the National Museum of Denmark

SCIENTIFIC ACTIVITIES AND RESEARCH

As senior scientist my primary research area since 2006 has been 1) development of advanced multiple LC-MS/MS methods for the analysis of steroid hormones and non-persistent endocrine disrupting chemicals (EDCs) in biological matrices and 2) human biomonitoring (HBM) and research on exposure to EDCs and their metabolic distribution, breakdown and excretion as well as interactions between EDCs and natural steroid hormones and other effects on human reproductive health and 3) development of human reference materials for steroid hormones based on LC-MS/MS measurements for use in the clinic and research projects. Participate in national as well as international research projects.

PROJECT AND LABORATORY MANAGEMENT

Project leader in HBM studies for e.g. the National Centre on Endocrine Disruptors (cend.dk).
As leader of the analytical chemistry laboratory at Dep. of Growth and Reproduction, I am overall responsible for development, operating and maintenance of all analytical methods based on LC-MS/MS technologies in the department. The laboratory analyzes more than 12.000 patient and research samples per year and cover over methods for steroid hormones, EDCs and peptide hormones including from 3 to 38 analytes per method. The laboratory is DANAK accredited and participates in inter-laboratory validation and control programs and serves as reference laboratory in international harmonized approach programs for HMB (HBM4EU).

IN GENERAL

Member of the Hormone and Endocrine Disruptor Laboratory Group at the Dep. of Growth and Reproduction, Rigshospitalet

Member of the editorial board (associated editor) for "International Journal of Hygiene and Environmental Health" (IJHEH) from May 2016.

Guest editor on special issue of Andrology 2016 and Reproduction 2014.

Frequent referee for more than 10 different international journals.

PREVIOUS RESEARCH ACTIVITIES

My Previous research (2000-2006) has been focused on bioavailability, metabolism, DNA-adduct formation and excretion of toxic and carcinogenic compounds, as well as health promoting substances. Have expertise in synthesis of reference compounds, method development and chemical analysis using advanced LC-MS/MS technology

TOTAL NUMBER OF PUBLICATIONS with peer review: 94 (Aug.2019)

H-INDEX: 32 (ISI, web of science); 36 (google scholar)

Citations: >3200 (ISI, web of science), >4700 (google scholar)

ORCID: 0000-0002-3180-9879

OTHER PUBLICATIONS: 4

BOOK CHAPTERS: 2

SCIENTIFIC REPORTS: 13

Research outputs

1. Bräuner, Elvira V ; Uldbjerg, Cecilie S ; Beck, Astrid L et al. / **Prenatal paraben exposures and birth size : Sex-specific associations in a healthy population - A study from the Odense Child Cohort.** In: Science of the Total Environment. 2023 ; Vol. 869. pp. 161748.
2. Clausen, Clara Lundetoft ; Johannsen, Trine Holm ; Skakkebaek, Niels Erik et al. / **Pituitary-gonadal hormones associated with respiratory failure in men and women hospitalized with COVID-19 : an observational cohort study.** In: Endocrine Connections. 2023 ; Vol. 12, No. 1.
3. Govarts, Eva ; Gilles, Liese ; Rodriguez Martin, Laura et al. / **Harmonized human biomonitoring in European children, teenagers and adults : EU-wide exposure data of 11 chemical substance groups from the HBM4EU Aligned Studies (2014-2021).** In: International Journal of Hygiene and Environmental Health. 2023 ; Vol. 249. pp. 114119.
4. Henriksen, Louise Scheutz ; Frederiksen, Hanne ; Jørgensen, Niels et al. / **Maternal phthalate exposure during pregnancy and testis function of young adult sons.** In: Science of the Total Environment. 2023 ; Vol. 871.
5. Krantz, Mette Falkenberg ; Frederiksen, Hanne ; Hjorthøj, Carsten et al. / **Pubertal timing, sex hormone levels, and associations between early life adversity and accelerated development amongst 11-year-old children of parents with schizophrenia or bipolar disorder and controls : The Danish high risk and Resilience study via 11.** In: Comprehensive Psychoneuroendocrinology. 2023 ; Vol. 16. pp. 100204.
6. Lærkeholm Müller, Matilde ; Busch, Alexander Siegfried ; Ljubicic, Marie Lindhardt et al. / **Urinary concentration of phthalates and bisphenol A during minipuberty is associated with reproductive hormone concentrations in infant boys.** In: International Journal of Hygiene and Environmental Health. 2023 ; Vol. 250. pp. 114166.
7. Melau, Cecilie ; Gayete Mor, Berta ; Lundgaard Riis, Malene et al. / **Dexamethasone affects human fetal adrenal steroidogenesis and subsequent ACTH response in an ex vivo culture model.** In: Frontiers in Endocrinology. 2023 ; Vol. 14. pp. 1114211.
8. Mustieles, Vicente ; Balogh, Ria K ; Axelstad, Marta et al. / **Benzophenone-3 : Comprehensive review of the toxicological and human evidence with meta-analysis of human biomonitoring studies.** In: Environment International. 2023 ; Vol. 173.
9. Nybo, Maja L ; Kvam, Jone M ; Nielsen, John E et al. / **Loss of Adgr3 causes obstructive azoospermia with high penetrance in male mice.** In: FASEB Journal. 2023 ; Vol. 37, No. 2.

10. Requena, Pilar ; Pérez-Díaz, Celia ; Mustieles, Vicente et al. / **Associations of circulating levels of phthalate metabolites with cytokines and acute phase reactants in a Spanish human cohort.** In: Environmental Research. 2023 ; Vol. 216, No. Pt 2.
11. Vilmand, Mikkel ; Beck, Iben Have ; Bilenberg, Niels et al. / **Prenatal and current phthalate exposure and cognitive development in 7-year-old children from the Odense child cohort.** In: Neurotoxicology and Teratology. 2023 ; Vol. 96.
12. Vogel, Nina ; Schmidt, Phillipp ; Lange, Rosa et al. / **Current exposure to phthalates and DINCH in European children and adolescents - Results from the HBM4EU Aligned Studies 2014 to 2021.** In: International Journal of Hygiene and Environmental Health. 2023 ; Vol. 249. pp. 1-11.
13. Vogel, Nina ; Lange, Rosa ; Schmidt, Phillipp et al. / **Exposure to Phthalates in European Children, Adolescents and Adults since 2005 : A Harmonized Approach Based on Existing HBM Data in the HBM4EU Initiative.** In: Toxics. 2023 ; Vol. 11, No. 3.
14. Vogel, Nina ; Frederiksen, Hanne ; Lange, Rosa et al. / **Urinary excretion of phthalates and the substitutes DINCH and DEHTP in Danish young men and German young adults between 2000 and 2017 - A time trend analysis.** In: International Journal of Hygiene and Environmental Health. 2023 ; Vol. 248. pp. 114080.
15. Borgsted, Camilla ; Høgh, Stinne ; Høgsted, Emma Sofie et al. / **The role of central serotonergic markers and estradiol changes in perinatal mental health.** In: Acta Psychiatrica Scandinavica. 2022 ; Vol. 146, No. 4. pp. 357-369.
16. Bräuner, Elvira V ; Uldbjerg, Cecilie S ; Lim, Youn-Hee et al. / **Presence of parabens, phenols and phthalates in paired maternal serum, urine and amniotic fluid.** In: Environment International. 2022 ; Vol. 158.
17. Busch, Alexander Siegfried ; Ljubcic, Marie Lindhardt ; Upners, Emmie N et al. / **Dynamic changes of reproductive hormones in male minipuberty : Temporal dissociation of Leydig- and Sertoli-cell activity.** In: The Journal of clinical endocrinology and metabolism. 2022 ; Vol. 107, No. 6. pp. 1560-1568.
18. Frederiksen, Hanne ; Ljubcic, Marie Lindhardt ; Upners, Emmie N et al. / **Benzophenones, bisphenols and other polychlorinated/phenolic substances in Danish infants and their parents - including longitudinal assessments before and after introduction to mixed diet.** In: Environment International. 2022 ; Vol. 169.
19. Frederiksen, Hanne ; Upners, Emmie N ; Ljubcic, Marie Lindhardt et al. / **Exposure to 15 phthalates and two substitutes (DEHTP and DINCH) assessed in trios of infants and their parents as well as longitudinally in infants exclusively breastfed and after the introduction of a mixed diet.** In: Environment International. 2022 ; Vol. 161.
20. Gilles, Liese ; Govarts, Eva ; Rodriguez Martin, Laura et al. / **Harmonization of Human Biomonitoring Studies in Europe : Characteristics of the HBM4EU-Aligned Studies Participants.** In: International Journal of Environmental Research and Public Health. 2022 ; Vol. 19, No. 11.
21. Holmboe, Stine A ; Scheutz Henriksen, Louise ; Frederiksen, Hanne et al. / **Prenatal exposure to phenols and benzophenones in relation to markers of male reproductive function in adulthood.** In: Frontiers in Endocrinology. 2022 ; Vol. 13.
22. Kortenkamp, Andreas ; Scholze, Martin ; Ermler, Sibylle et al. / **Combined exposures to bisphenols, polychlorinated dioxins, paracetamol, and phthalates as drivers of deteriorating semen quality.** In: Environment International. 2022 ; Vol. 165.
23. Lange, Rosa ; Vogel, Nina ; Schmidt, Phillipp et al. / **Cumulative risk assessment of five phthalates in European children and adolescents.** In: International Journal of Hygiene and Environmental Health. 2022 ; Vol. 246.
24. Ljubcic, Marie L ; Busch, Alexander S ; Upners, Emmie N et al. / **A Biphasic Pattern of Reproductive Hormones in Healthy Female Infants -The COPENHAGEN Minipuberty Study.** In: The Journal of clinical endocrinology and metabolism. 2022 ; Vol. 107, No. 9. pp. 2598-2605.
25. Ljubcic, Marie Lindhardt ; Madsen, Andre ; Upners, Emmie N et al. / **Longitudinal evaluation of breast tissue in healthy infants : Prevalence and relation to reproductive hormones and growth factors.** In: Frontiers in Endocrinology. 2022 ; Vol. 13.
26. Lundgaard Riis, Malene ; Matilionyte, Gabriele ; Nielsen, John E et al. / **Identification of a window of androgen sensitivity for somatic cell function in human fetal testis cultured ex vivo.** In: BMC Medicine. 2022 ; Vol. 20, No. 1.
27. Mehlsen, Agnethe ; Høllund, Lærke ; Boye, Henriette et al. / **Pregnancy exposure to bisphenol A and duration of breastfeeding.** In: Environmental Research. 2022 ; Vol. 206.
28. Rehfeld, A ; Frederiksen, H ; Rasmussen, R H et al. / **Human sperm cells can form paracetamol metabolite AM404 that directly interferes with sperm calcium signalling and function through a CatSper-dependent mechanism.** In: Human reproduction (Oxford, England). 2022 ; Vol. 37, No. 5. pp. 922-935.
29. Rosolen, Valentina ; Giordani, Elisa ; Mariuz, Marika et al. / **Concurrent Assessment of Phthalates/HEXAMOLL® DINCH Exposure and Wechsler Intelligence Scale for Children Performance in Three European Cohorts of the HBM4EU Aligned Studies.** In: Toxics. 2022 ; Vol. 10, No. 9.
30. Uldbjerg, C S ; Koch, T ; Lim, Y-H et al. / **Prenatal and postnatal exposures to endocrine disrupting chemicals and timing of pubertal onset in girls and boys : a systematic review and meta-analysis.** In: Human Reproduction Update. 2022 ; Vol. 28, No. 5. pp. 687-716.

31. Uldbjerg, Cecilie S ; Lim, Youn-Hee ; Krause, Marianna et al. / **Sex-specific associations between maternal exposure to parabens, phenols and phthalates during pregnancy and birth size outcomes in offspring.** In: Science of the Total Environment. 2022 ; Vol. 836. pp. 1-12.
32. Berman, Ye'elah E ; Doherty, Dorota A ; Main, Katharina M et al. / **Associations between Prenatal Exposure to Phthalates and Timing of Menarche and Growth and Adiposity into Adulthood : A Twenty-Years Birth Cohort Study.** In: International Journal of Environmental Research and Public Health. 2021 ; Vol. 18, No. 9.
33. Berman, Ye'elah E ; Doherty, Dorota A ; Main, Katharina M et al. / **The influence of prenatal exposure to phthalates on subsequent male growth and body composition in adolescence.** In: Environmental Research. 2021 ; Vol. 195.
34. Bräuner, Elvira V ; Lim, Youn-Hee ; Koch, Trine et al. / **Endocrine Disrupting Chemicals and Risk of Testicular Cancer : A Systematic Review and Meta-analysis.** In: The Journal of clinical endocrinology and metabolism. 2021 ; Vol. 106, No. 12. pp. e4834-e4860.
35. Busch, Alexander Siegfried ; Ljubicic, Marie Lindhardt ; Upners, Emmie N et al. / **Cohort profile : The COPENHAGEN Minipuberty Study-A longitudinal prospective cohort of healthy full-term infants and their parents.** In: Paediatric and Perinatal Epidemiology. 2021 ; Vol. 35, No. 5. pp. 601-611.
36. Donat-Vargas, Carolina ; Perez-Carrascosa, Francisco ; Gomez-Peña, Celia et al. / **Associations of serum phthalate metabolites with thyroid hormones in GraMo cohort, Southern Spain.** In: Environmental pollution (Barking, Essex : 1987). 2021 ; Vol. 287. pp. 117606.
37. Frederiksen, Hanne ; Krause, Marianna ; Jørgensen, Niels et al. / **UV filters in matched seminal fluid-, urine-, and serum samples from young men.** In: Journal of Exposure Science and Environmental Epidemiology. 2021 ; Vol. 31, No. 2. pp. 345-355.
38. Gannon, Anne-Louise ; O'Hara, Laura ; Mason, Ian J et al. / **Androgen Receptor Is Dispensable for X-Zone Regression in the Female Adrenal but Regulates Post-Partum Corticosterone Levels and Protects Cortex Integrity.** In: Frontiers in Endocrinology. 2021 ; Vol. 11.
39. Hansen, Julie Bang ; Bilenberg, Niels ; Timmermann, Clara Amalie Gade et al. / **Prenatal exposure to bisphenol A and autistic- and ADHD-related symptoms in children aged 2 and 5 years from the Odense Child Cohort.** In: Environmental Health: A Global Access Science Source. 2021 ; Vol. 20, No. 1. pp. 24.
40. Højsager, Frederik Damsgaard ; Kyhl, Henriette Boye ; Frederiksen, Hanne et al. / **Prenatal Exposure to Butyl Paraben Is Associated With Fat Percentage in 7-Year-Old Boys.** In: The Journal of clinical endocrinology and metabolism. 2021 ; Vol. 106, No. 7. pp. e2633-e2638.
41. Jensen, Tina Kold ; Andersson, Anna-Maria ; Main, Katharina M et al. / **Prenatal paraben exposure and anogenital distance and reproductive hormones during mini-puberty : A study from the Odense Child Cohort.** In: Science of the Total Environment. 2021 ; Vol. 769. pp. 145119.
42. Melau, Cecilie ; Nielsen, John E ; Perlman, Signe et al. / **Establishment of a novel human fetal adrenal culture model that supports de novo and manipulated steroidogenesis.** In: The Journal of clinical endocrinology and metabolism. 2021 ; Vol. 106, No. 3. pp. 843-857.
43. Melau, Cecilie ; Riis, Malene Lundgaard ; Nielsen, John E et al. / **The effects of selected inhibitors on human fetal adrenal steroidogenesis differs under basal and ACTH-stimulated conditions.** In: BMC Medicine. 2021 ; Vol. 19, No. 1. pp. 1-17.
44. Albrethsen, Jakob ; Johannsen, Trine Holm ; Jørgensen, Niels et al. / **Evaluation of Serum Insulin-like Factor 3 Quantification by LC-MS/MS as a Biomarker of Leydig Cell Function.** In: The Journal of clinical endocrinology and metabolism. 2020 ; Vol. 105, No. 6. pp. 1868-1877.
45. Almstrup, Kristian ; Frederiksen, Hanne ; Andersson, Anna-Maria et al. / **Levels of endocrine-disrupting chemicals are associated with changes in the peri-pubertal epigenome.** In: Endocrine Connections. 2020 ; Vol. 9, No. 8. pp. 845-857.
46. Bøllehuus Hansen, Lasse ; Kaludjerovic, Jovana ; Nielsen, John Erik et al. / **Influence of FGF23 and Klotho on male reproduction : Systemic vs direct effects.** In: FASEB Journal. 2020 ; Vol. 34, No. 9. pp. 12436-12449.
47. Calafat, Antonia M. ; Koch, Holger M. ; Andra, S. S. et al. / **BPA and risk assessment.** In: The Lancet Diabetes and Endocrinology. 2020 ; Vol. 8, No. 4. pp. 269-270.
48. Christiansen, Sofie ; Axelstad, Marta ; Scholze, Martin et al. / **Grouping of endocrine disrupting chemicals for mixture risk assessment - Evidence from a rat study.** In: Environment International. 2020 ; Vol. 142. pp. 105870.
49. Clausen, Caroline S ; Ljubicic, Marie L ; Main, Katharina M et al. / **Congenital Adrenal Hyperplasia in Children : A Pilot Study of Steroid Hormones Expressed as Sex- and Age-Related Standard Deviation Scores.** In: Hormone research in paediatrics. 2020 ; Vol. 93, No. 4. pp. 226-238.
50. Eftekhari, Azin ; Frederiksen, Hanne ; Andersson, Anna-Maria et al. / **Predicting Transdermal Uptake of Phthalates and a Paraben from Cosmetic Cream Using the Measured Fugacity.** In: Environmental Science & Technology. 2020 ; Vol. 54, No. 12. pp. 7471-7484.
51. Fisher, B G ; Thankamony, A ; Mendiola, J et al. / **Maternal serum concentrations of bisphenol A and propyl paraben in early pregnancy are associated with male infant genital development.** In: Human reproduction (Oxford, England). 2020 ; Vol. 35, No. 4. pp. 913-928.

52. Frederiksen, Hanne ; Nielsen, Ole ; Koch, Holger M et al. / **Changes in urinary excretion of phthalates, phthalate substitutes, bisphenols and other polychlorinated and phenolic substances in young Danish men; 2009-2017.** In: International Journal of Hygiene and Environmental Health. 2020 ; Vol. 223, No. 1. pp. 93-105.
53. Frederiksen, Hanne ; Johannsen, Trine Holm ; Andersen, Stine Ehler et al. / **Sex-specific estrogen levels and reference intervals from infancy to late adulthood determined by LC-MS/MS.** In: The Journal of clinical endocrinology and metabolism. 2020 ; Vol. 105, No. 3. pp. 754-768.
54. Henriksen, Louise S. ; Mathiesen, Barbara K. ; Assens, Maria et al. / **Use of stored serum in the study of time trends and geographical differences in exposure of pregnant women to phthalates.** In: Environmental Research. 2020 ; Vol. 184. pp. 109231.
55. Holt, Rune ; Mortensen, Li Juel ; Harpelunde Poulsen, Katrine et al. / **Vitamin D and sex steroid production in men with normal or impaired Leydig cell function.** In: The Journal of steroid biochemistry and molecular biology. 2020 ; Vol. 199. pp. 105589.
56. Jensen, Richard Christian ; Glintborg, Dorte ; Gade Timmermann, Clara Amalie et al. / **Prenatal exposure to perfluorodecanoic acid is associated with lower circulating concentration of adrenal steroid metabolites during mini puberty in human female infants. The Odense Child Cohort.** In: Environmental Research. 2020 ; Vol. 182. pp. 109101.
57. Jøhnik, Camilla ; Høst, Arne ; Husby, Steffen et al. / **Maternal phthalate exposure and asthma, rhinitis and eczema in 552 children aged 5 years; A prospective cohort study.** In: Environmental Health: A Global Access Science Source. 2020 ; Vol. 19, No. 1. pp. 32.
58. Landersoe, Selma Klove ; Larsen, Elisabeth Clare ; Forman, Julie Lyng et al. / **Ovarian reserve markers and endocrine profile during oral contraception : Is there a link between the degree of ovarian suppression and AMH?** In: Gynecological endocrinology : the official journal of the International Society of Gynecological Endocrinology. 2020 ; Vol. 36, No. 12. pp. 1090-1095.
59. Mathiesen, Sidsel ; Sørensen, Kaspar ; Nielsen, Malene Mejdahl et al. / **Male gonadal function after allogeneic hematopoietic stem cell transplantation in childhood : a cross-sectional, population-based study.** In: Biology of blood and marrow transplantation : journal of the American Society for Blood and Marrow Transplantation. 2020 ; Vol. 26, No. 9. pp. 1635-1645.
60. Muerköster, Anna-Patricia ; Frederiksen, Hanne ; Juul, Anders et al. / **Maternal phthalate exposure associated with decreased testosterone/LH ratio in male offspring during mini-puberty. Odense Child Cohort.** In: Environment International. 2020 ; Vol. 144. pp. 106025.
61. Pletz, Julia ; Blakeman, Samantha ; Paini, Alicia et al. / **Physiologically based kinetic (PBK) modelling and human biomonitoring data for mixture risk assessment.** In: Environment International. 2020 ; Vol. 143. pp. 105978.
62. Rebourcet, Diane ; Mackay, Rosa ; Darbey, Annalucia et al. / **Ablation of the canonical testosterone production pathway via knockout of the steroidogenic enzyme HSD17B3, reveals a novel mechanism of testicular testosterone production.** In: FASEB Journal. 2020 ; Vol. 34, No. 8. pp. 10373-10386.
63. Stroomberg, Hein Vincent ; Jørgensen, Anne ; Brasso, Klaus et al. / **Novel functions of the luteinizing hormone/chorionic gonadotropin receptor in prostate cancer cells and patients.** In: PLoS One. 2020 ; Vol. 15, No. 9 September.
64. Artacho-Cordón, F ; Ríos-Arrabal, S ; León, J et al. / **Adipose tissue concentrations of non-persistent environmental phenols and local redox balance in adults from Southern Spain.** In: Environment International. 2019 ; Vol. 133, No. Pt A. pp. 105118.
65. Assens, Maria ; Frederiksen, Hanne ; Petersen, Jørgen Holm et al. / **Variations in repeated serum concentrations of UV filters, phthalates, phenols and parabens during pregnancy.** In: Environment International. 2019 ; Vol. 123. pp. 318-324.
66. Curley, Michael ; Milne, Laura ; Smith, Sarah et al. / **A young testicular microenvironment protects Leydig cells against age-related dysfunction in a mouse model of premature aging.** In: FASEB Journal. 2019 ; Vol. 33, No. 1. pp. 978-995.
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79. Joensen, Ulla Nordström ; Jørgensen, Niels ; Thyssen, Jacob P et al. / **Urinary excretion of phenols, parabens and benzophenones in young men : Associations to reproductive hormones and semen quality are modified by mutations in the Filaggrin gene.** In: Environment International. 2018 ; Vol. 121, No. Pt 1. pp. 365-374.
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