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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. Edström, P. B. ; Holmboe, S. A. ; Vilmann, L. et al. / **ACTH and renin in 529 healthy youths : associations to sex, puberty and contraceptives.** In: Endocrine Connections. 2026 ; Vol. 15, No. 3.
2. Hufnagel, Antonia ; Frederiksen, Hanne ; Albrethsen, Jakob et al. / **Mapping of sex hormones in the testicular vein of healthy men.** In: The Journal of clinical endocrinology and metabolism. 2026.
3. Iversen, Anna-Patricia ; Bruun, Jessica ; Lund, Lars Christian et al. / **Prenatal exposure to the pesticides chlorpyrifos and 2,4-Dichlorophenoxyacetic acid is associated with circulating levels of reproductive hormones in healthy infant girls.** In: Reproductive Toxicology. 2026 ; Vol. 139.
4. Leunbach, Tina L ; Ernst, Andreas ; Johannsen, Trine Holm et al. / **Reproductive hormones during minipuberty suggest subtle testicular impairments in boys with hypospadias.** In: The Journal of clinical endocrinology and metabolism. 2026 ; Vol. 111, No. 5. pp. 1329-1336.
5. Abildgaard, Julie ; Aleiunaite, Aiste ; Horvath, Carla et al. / **Sex Hormone-Binding Globulin Controls Sex-Specific Lipolytic Activity in Human Abdominal Subcutaneous Adipocytes.** In: Molecular Metabolism. 2025 ; Vol. 98. pp. 102189.
6. Andreasen, Sarah Munk ; Lund, Lars Christian ; Hagen, Casper P. et al. / **Maternal urinary paracetamol concentrations and self-reported paracetamol use in mid-gestation : Association to reduced anogenital distance in Offspring from infancy to 9 years.** In: Reproductive Toxicology. 2025 ; Vol. 135.
7. Beck, Astrid L. ; Bräuner, Elvira V. ; Uldbjerg, Cecilie S. et al. / **Maternal urinary concentrations of bisphenol A during pregnancy and birth size in children from the Odense Child Cohort.** In: Environmental Health: A Global Access Science Source. 2025 ; Vol. 24, No. 1.
8. Busch, Alexander Siegfried ; Ljubicic, Marie Lindhardt ; Upners, Emmie N et al. / **Serum steroid metabolome dynamics in infancy : a longitudinal cohort study of healthy infants.** In: European Journal of Endocrinology. 2025 ; Vol. 193, No. 4. pp. 403-411.
9. Fischer, Margit Bistrup ; Mola, Gylli ; Rom, Ane Lilleøre et al. / **Ovarian and Uterine Morphology in Minipuberty : Associations with Reproductive Hormones. A COPANA Study of 302 girls.** In: The Journal of clinical endocrinology and metabolism. 2025 ; Vol. 110, No. 4. pp. 1015-1022.

10. Frederiksen, Hanne ; Koch, Holger M ; Müller, Stine et al. / **Extensive exposure to di-n-hexyl phthalate with significant seasonal variation across infants, children and adults including pregnant women in Denmark.** In: International Journal of Hygiene and Environmental Health. 2025 ; Vol. 268.
11. Homburg, Mai ; Martín Monreal, María Teresa ; Rasmussen, Åse Krogh et al. / **Effects of triclosan on cytokine production by human immune cells in vitro.** In: Environment International. 2025 ; Vol. 202.
12. Jakobsen, Nanna E ; Holm Petersen, Jørgen ; Aksglaede, Lise et al. / **Adolescent acne : association to sex, puberty, testosterone and dihydrotestosterone.** In: Endocrine Connections. 2025 ; Vol. 14, No. 5.
13. Nielsen, Brian S ; Petersen, Morten R ; Martin-Gonzalez, Javier et al. / **Paracetamol (N-acetyl-para-aminophenol) disrupts early embryogenesis by cell cycle inhibition.** In: Human Reproduction. 2025 ; Vol. 40, No. 10. pp. 1860-1876.
14. Assens, Maria ; Frederiksen, Hanne ; Pedersen, Anette Tønnes et al. / **Prenatal phthalate exposure and pubertal development in 16-year-old daughters : reproductive hormones and number of ovarian follicles.** In: Human Reproduction. 2024 ; Vol. 39, No. 11. pp. 2501-2511.
15. Beck, Astrid L ; Rehfeld, Anders ; Mortensen, Li J et al. / **Ovarian follicular fluid levels of phthalates and benzophenones in relation to fertility outcomes.** In: Environment International. 2024 ; Vol. 183. pp. 108383.
16. Clausen, Clara Lundetoft ; Johannsen, Trine Holm ; Skakkebak, Niels Erik et al. / **Endogenous serum glucocorticoid concentrations, steroidogenic enzyme activity and 90-day mortality in patients hospitalized with COVID-19 : an observational cohort study.** In: Endocrine Connections. 2024 ; Vol. 13, No. 8.
17. Desalegn, Anteneh ; Schillemans, Tessa ; Papadopoulou, Eleni et al. / **Urinary concentrations of phthalate/DINCH metabolites and body mass index among European children and adolescents in the HBM4EU Aligned Studies : A cross-sectional multi-country study.** In: Environment International. 2024 ; Vol. 190.
18. Fischer, Margit Bistrup ; Mola, Gylli ; Scheel, Lone et al. / **Cohort profile : The Copenhagen Analgesic Study-The COPANA cohort.** In: Paediatric and perinatal epidemiology. 2024 ; Vol. 38, No. 4. pp. 370-381.
19. Fischer, Margit Bistrup ; Mola, Gylli ; Priskorn, Lærke et al. / **Longitudinal evaluation of fetal and infant AGD in healthy children : association with penile size, testosterone and DHT.** In: The Journal of clinical endocrinology and metabolism. 2024 ; Vol. 109, No. 12. pp. 3087-3095.
20. Frederiksen, Hanne ; Johannsen, Trine Holm ; Andersen, Stine Ehler et al. / **Sex- and age-specific reference intervals of 16 steroid metabolites quantified simultaneously by LC-MS/MS in sera from 2458 healthy subjects aged 0 to 77 years.** In: Clinica chimica acta; international journal of clinical chemistry. 2024 ; Vol. 562.
21. Gerofke, Antje ; Lange, Rosa ; Vogel, Nina et al. / **Phthalates and substitute plasticizers : Main achievements from the European human biomonitoring initiative HBM4EU.** In: International Journal of Hygiene and Environmental Health. 2024 ; Vol. 259.
22. Jorsal, Mads Joon ; Yahyavi, Sam Kafai ; Andreassen , Christine Hjorth et al. / **Identification of hCG- and LH-dependent ovarian luteoma resulting in marked androgen production during pregnancy states as well as after menopause : characterization in vivo and in a human ex vivo model.** In: Endocrine Abstracts. 2024 ; Vol. 2024, No. 99.
23. Kvam, Jone Marita ; Nybo, Maja Lind ; Torz, Lola et al. / **High incidence of imperforate vagina in ADGRA3-deficient mice.** In: BMC biology. 2024 ; Vol. 22, No. 1. pp. 77.
24. Lundgaard Riis, Malene ; Delpouve, Gaspard ; Nielsen, John E et al. / **Inhibition of WNT/ β -catenin signalling during sex-specific gonadal differentiation is essential for normal human fetal testis development.** In: Cell Communication and Signaling. 2024 ; Vol. 22, No. 1.
25. Pérez-Díaz, Celia ; Pérez-Carrascosa, Francisco M ; Riquelme-Gallego, Blanca et al. / **Serum Phthalate Concentrations and Biomarkers of Oxidative Stress in Adipose Tissue in a Spanish Adult Cohort.** In: Environmental Science & Technology. 2024 ; Vol. 58, No. 18. pp. 7719-7730.
26. Petersen, Anja S ; Kristensen, David M ; Westgate, Connor S J et al. / **Compensated Hypogonadism Identified in Males with Cluster Headache : A Prospective Case-Controlled Study.** In: Annals of Neurology. 2024 ; Vol. 95, No. 6. pp. 1149-1161.
27. Sigvaldsen, Annika ; Frederiksen, Hanne ; Højsager, Frederik Damsgaard et al. / **Prenatal and childhood exposure to bisphenols and bone mineral density in 7-year-old children from the Odense Child Cohort.** In: International Journal of Hygiene and Environmental Health. 2024 ; Vol. 260.
28. Tagne-Fotso, Romuald ; Riou, Margaux ; Saoudi, Abdessattar et al. / **Exposure to bisphenol A in European women from 2007 to 2014 using human biomonitoring data - The European Joint Programme HBM4EU.** In: Environment International. 2024 ; Vol. 190.
29. 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.
30. Clausen, Clara Lundetoft ; Johannsen, Trine Holm ; Skakkebak, 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.

31. 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.
32. 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.
33. 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.
34. 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. 1-10.
35. 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.
36. Munk Andreasen, Sarah ; Frederiksen, Hanne ; Bilenberg, Niels et al. / **Maternal concentrations of phthalates and Attention-Deficit Hyperactivity Disorder (ADHD-) related symptoms in children aged 2 to 4 years from Odense child cohort**. In: Environment International. 2023 ; Vol. 180. pp. 1-10.
37. 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.
38. 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.
39. 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.
40. Rodriguez Martin, Laura ; Gilles, Liese ; Helte, Emilie et al. / **Time Patterns in Internal Human Exposure Data to Bisphenols, Phthalates, DINCH, Organophosphate Flame Retardants, Cadmium and Polyaromatic Hydrocarbons in Europe**. In: Toxics. 2023 ; Vol. 11, No. 10.
41. 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.
42. 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.
43. 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.
44. 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. 1-11.
45. 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.
46. 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.
47. Busch, Alexander Siegfried ; Ljubicic, 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.
48. Frederiksen, Hanne ; Ljubicic, 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.
49. Frederiksen, Hanne ; Upners, Emmie N ; Ljubicic, 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.
50. 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.

51. 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.
52. 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.
53. 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.
54. Ljubicic, 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.
55. Ljubicic, 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.
56. 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.
57. Mehlsen, Agnethe ; Høllund, Lærke ; Boye, Henriette et al. / **Pregnancy exposure to bisphenol A and duration of breastfeeding.** In: *Environmental Research.* 2022 ; Vol. 206.
58. 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.
59. 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.
60. 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.
61. 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.
62. 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.
63. 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.
64. 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.
65. 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.
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69. 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.
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71. 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.

72. 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.
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