



DANISH  
ramazzini  
CENTRE  
research in occupational  
and environmental medicine

Department of Public Health, Aarhus University  
Occupational and Environmental Medicine, Aalborg University Hospital  
Occupational and Environmental Medicine, Aarhus University Hospital  
Occupational and Environmental Medicine, Goedstrup Hospital

**REPORT 2025**

Front cover:

Studies from the Danish Ramazzini Center in 2025 have explored the potential impact of prenatal arsenic exposure in drinking water on type 1 diabetes risk in children, as well as how source-specific nitrate and nitrite intake may influence colorectal cancer risk in adults.

Normally, groundwater is invisible and hidden deep underground, but here in the limestone mines in Mønsted, you can see it.

Photo by Bente Fyrstenberg Nedergaard

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## Danish Ramazzini Center

### Board of directors

Medical Director Søren Pihlkjær Hjortshøj  
Aalborg University Hospital

Head of Department Michael Baggesen Klitgaard  
Department of Public Health  
Aarhus University

Chief Medical Officer Michael Braüner Schmidt  
Aarhus University Hospital

Chief Medical Officer Jens Friis Bak  
Gødstrup Hospital

Head of Department Jørgen Frøkiær  
Department of Clinical Medicine  
Aarhus University

Elected Confederal Secretary Leif Vestbjerg-Nielsen  
FOA trade union Northern Jutland

District chair Anja Laursen  
Danish Nursing Council in Central Jutland

Professor Henrik A. Kolstad  
Occupational and Environmental Medicine  
Aarhus University Hospital  
Department of Clinical Medicine  
Aarhus University

### Scientific Advisory Board

Associate Professor Susan Peters  
Department Population Health Sciences  
Institute for Risk Assessment Sciences (IRAS)  
Utrecht University, Netherlands

Professor Lode Godderis  
Environment and Health  
KU Leuven, Belgium

Professor Emeritus Jens Peter Bonde  
Department of Public Health  
University of Copenhagen

## Preface

2025 was another inspiring year for the Danish Ramazzini Centre.

The 14<sup>th</sup> Annual Ramazzini Seminar was held on November 5-6, where 32 colleagues met at Sandbjerg Manor. This year's program had a new and exciting focus on graphical abstracts, combining an online workshop, led by visual science communicator Meike Latz from Stockholm, with hands-on training where participants worked creatively with their own content. The resulting abstracts were later showed in a graphical abstracts exhibition, which also served as a networking activity. The program also highlighted exciting ongoing or recently finished PhD projects, with PhD students from each department presenting their research. The seminar received financial support from Aarhus University Research Fund.

The second Ramazzini junior seminar targeting researchers at or below postdoc level was held on September 2-3 at Tunø. Twelve participants networked and explored professional personalities, strengthened LinkedIn skills and effective task management, and reflected on academic dilemmas.

Aarhus, Aalborg and Gødstrup, January 28, 2025

Danish Ramazzini Centre Coordination Board:

Henrik Kolstad	Occupational and Environmental Medicine, Aarhus University Hospital
Jakob Hjort Bønløkke	Occupational and Environmental Medicine, Aalborg University Hospital
Johan Hviid Andersen	Occupational and Environmental Medicine, Goedstrup Hospital
Marianne Kyndi	Occupational and Environmental Medicine, Goedstrup Hospital
Torben Sigsgaard	Department of Public Health, Aarhus University
Vivi Schlünssen	Department of Public Health, Aarhus University

Jesper Medom Vestergaard, Christine Wulff Cramer, Christine Leonhard Birk Sørensen, Theresa Møller Kynde, and Vivi Just-Nørregaard Hansen defended their PhD theses and four new PhD students were enrolled. In total, 18 PhD students were connected to the centre during 2025.

We organized the 8<sup>th</sup> PhD course in quantitative exposure assessment in occupational and environmental epidemiology with participants from Belgium, Sweden, Norway and Denmark.

At seven online Ramazzini Forum meetings, we had presentations on risk factors, biomarkers, and treatment strategies of musculoskeletal pain among surgeons, mitigation of health effects of heat exposure, regulation of nitrate levels in drinking water, health effects of night work, physical capacity of older workers, socioeconomic status and depression trajectories, and low cost sensors for PM<sub>2.5</sub>.

86 peer-reviewed publications covering a wide range of topics within occupational and environmental health were published.

Figure 1: Annual Publications 2008-2025

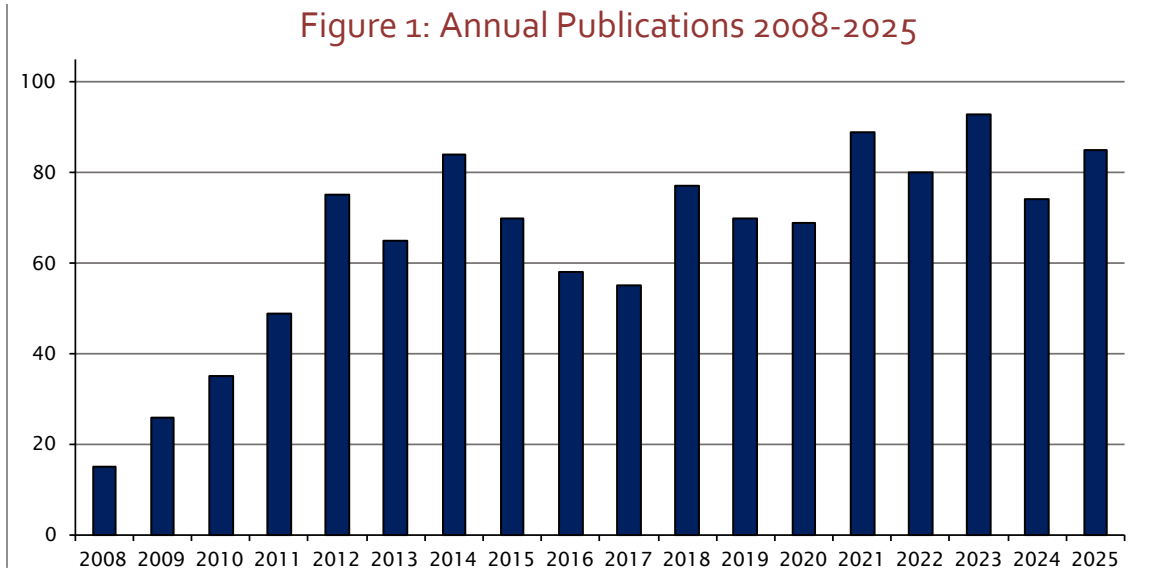


Figure 2: Annual PhD and Research Year Defences 2008-2025

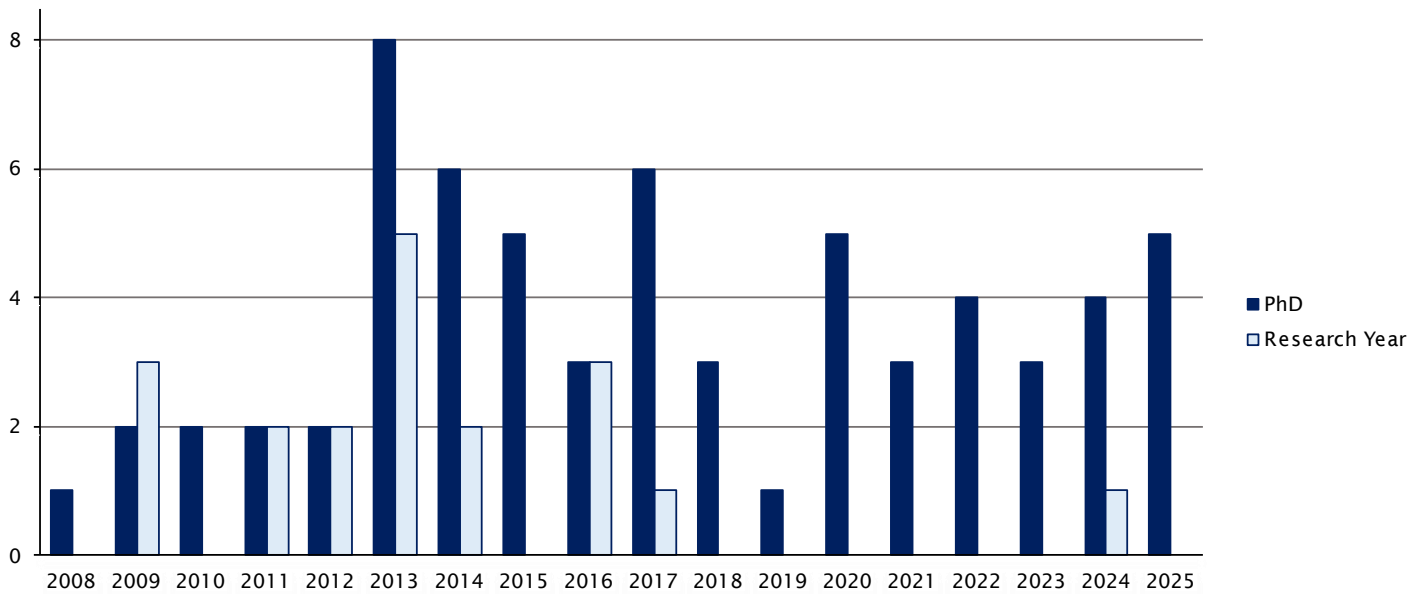
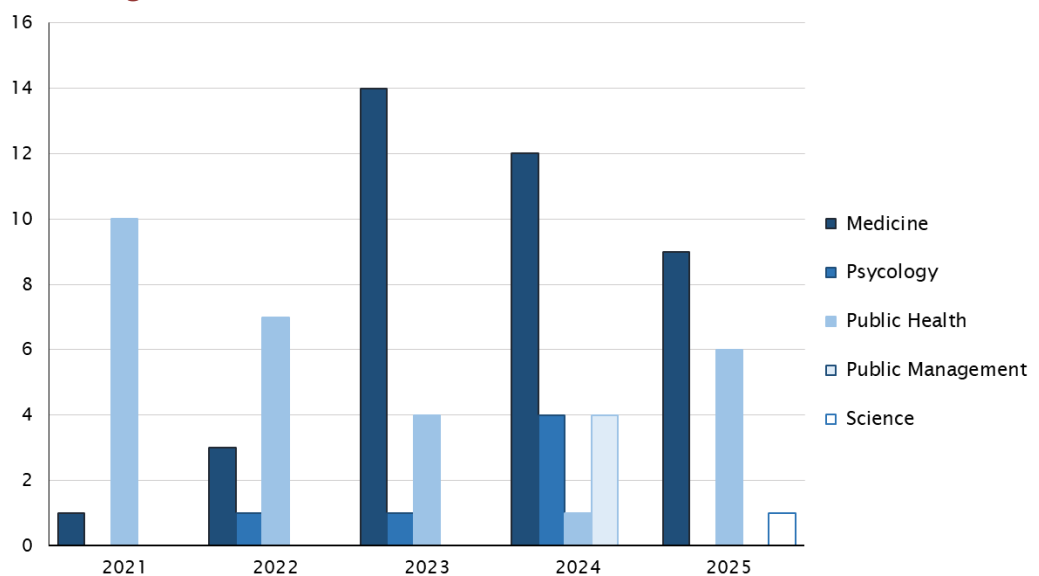


Figure 3: Annual Masters Theses 2021-2025



## PhD dissertations

During the year, five PhD projects were successfully completed and defended, each contributing important new knowledge on how environmental, occupational, and psychosocial factors shape health across the life course. Together, these projects strengthened the scientific foundation for prevention and improved public and occupational health practice.

Jesper Medom Vestergaard's PhD project investigated the health effects of **evening and night shift work**, using 14 years of payroll data to assess risks of coronary heart disease, myocardial infarction, and breast cancer. His studies examined the evidence that circadian rhythm disruption and irregular work hours may contribute to chronic disease development, offering important perspectives for occupational health policies and shift-work planning.

Christine Wulff Cramer's PhD project examined the role of the **airborne and oral microbiome** in adult asthma, allergy, and chronic rhinosinusitis. Drawing on extensive international cohort data, her research demonstrated that higher microbial diversity and bacterial load in indoor air were associated with worsening respiratory symptoms over time, while oral microbiome characteristics were linked to lung function and disease status. The findings highlighted the complex and nuanced influence of microbial exposures on respiratory health.

Christine Leonhard Birk Sørensen completed her PhD on **mental health in adolescence and early adulthood**, a critical developmental stage for the onset of psychological difficulties. Her work provided valuable insights into patterns, determinants, and long-term implications of mental health challenges in young people, supporting ongoing efforts to improve prevention and early intervention strategies.

Theresa Møller Kynde completed a PhD applying an **occupational exposome approach** to explore how diverse workplace exposures influence lung function and the development of COPD. Using two major international cohort studies, she identified associations between chemical, physical, and ergonomic exposures and adverse respiratory outcomes, alongside biomarker changes suggestive of early disease processes. Her work underscored the substantial impact of occupational environments on respiratory health.

Vivi Just-Nørregaard's PhD project focused on how **psychosocial stressors in adolescence and young adulthood** relate to later metabolic outcomes, including BMI and HbA1c levels. Her research demonstrated that early-life stress may contribute to long-term metabolic risk, emphasizing the importance of supportive psychosocial environments during formative years.

Together, these completed PhD projects offered valuable contributions to understanding the mechanisms linking environmental, occupational, and psychosocial exposures with health outcomes. Their findings provide a strong basis for continued preventive efforts and evidence-based improvements in public and occupational health.

Jesper Medom Vestergaard  
MSc IT

**INVITATION TO PHD DEFENCE**  
Jesper Medom Vestergaard  
Master of IT



**WORKING EVENING AND NIGHT SHIFTS AND RISK OF CORONARY  
HEART DISEASE, MYOCARDIAL INFARCTION, AND BREAST CANCER,  
A 14-YEAR FOLLOW-UP STUDY OF PAYROLL DATA**

**Tuesday June 24<sup>th</sup> 2025 at 14:00**

Auditorium G206-142, Entrance G, Aarhus University Hospital  
Palle Juul-Jensens Boulevard 99, 8200 Aarhus N

**Assessment committee**

**Reimar W. Thomsen** (Chairman and moderator of the defence)  
Professor, MD, PhD  
Department of Clinical Epidemiology, Aarhus University, Denmark

**Eva Schernhammer**  
Professor, MD, PhD  
Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, US  
Department of Epidemiology, Center for Public Health, Medical University of Vienna, Austria

**Annina Ropponen**  
Research professor, MSc, PhD  
Finnish Institute of Occupational Health, Helsinki, Finland

**Henrik Albert Kolstad** (main supervisor and non-voting member)  
Professor, MD, PhD  
Department of Occupational and Environmental Medicine, Danish Ramazzini Centre,  
Aarhus University Hospital, Denmark

After the defence, everyone is welcome to join the reception at the  
Department of Occupational and Environmental Medicine, AUH, Entrance C - C107

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**INVITATION TO PHD DEFENCE**  
**The Airborne and Oral Microbiome in  
Relation to Allergy, Asthma and Chronic  
Rhinosinusitis**

Friday June 27<sup>th</sup> 2025 at 14:00  
Samfundsmedicinsk Auditorium,  
Building 1262, Room 101  
Aarhus University  
Bartholins Allé 4, 8000 Aarhus C



Christine Wulff Cramer  
MD

The defence can also be viewed online. To request a link,  
please contact Gitte Nielsen: [gn@ph.au.dk](mailto:gn@ph.au.dk)

Research has long suggested that the microbiome plays a role in the development of allergies and respiratory diseases. However, most studies so far have focused on children or specific patient groups. In her PhD project, Christine Wulff Cramer investigated how the airborne and oral microbiome are related to allergy, asthma, and chronic rhinosinusitis (CRS) among adults in a large international population-based study.

As part of the European Community Respiratory Health Survey (ECRHS), microbiome samples were collected from the bedrooms of more than 1000 participants across five countries and analyzed using DNA sequencing techniques. In addition, oral microbiome samples were collected from participants in Norway, Estonia, and Australia.

The study found no clear association between microbial diversity in indoor air and current respiratory diseases. However, in a 10-year follow-up, greater microbial diversity in the home was associated with worsening respiratory symptoms over time. Increased bacterial and endotoxin load in indoor air was also linked to asthma, CRS, and respiratory symptoms. In the oral microbiome, greater diversity was associated with lower lung function and non-allergic CRS. Several microbial species and gene functions were more common among individuals without asthma, CRS, or allergies — suggesting that both the composition and function of the microbiome, rather than diversity alone, may be important for respiratory health.

This is the first large-scale, population-based study to examine both the airborne and oral microbiome in relation to adult respiratory health. While the results cannot be translated directly into clinical guidelines, they underline that childhood is probably the critical period for the influence of microbial exposure on respiratory health — but also suggest that high bacterial load in indoor air may be harmful to adults.

**Assessment committee**

**Associate Professor Bodil Hammer Bech, MD, PhD, DMSc** (Chair of the assessment committee)  
Department of Public Health, Aarhus University, Aarhus, Denmark

**Professor Lidwien Smit, MSc, PhD**

Veterinary Medicine; Department Population Health Sciences; Institute for Risk Assessment Sciences,  
Utrecht University, Utrecht, The Netherlands

**Professor Allan Linneberg, MD, PhD**

Center for Clinical Research and Prevention, Fredriksberg Hospital, University of Copenhagen,  
Copenhagen, Denmark

**Professor Vivi Schlünssen, MD, PhD** (main supervisor and non-voting member)

Department of Public Health, Danish Ramazzini Centre, Aarhus University, Denmark

After the defence, everyone is welcome to join the reception hosted by the Department of Public Health

Christine Leonhard Birk Sørensen  
MSc Public Health

# INVITATION

PhD defence  
Christine Leonhard Birk Sørensen



## Mental health in adolescence and early adulthood

Friday, October 3rd 2025 at 13:00 Aarhus University,  
Auditorium 1252-310 - Jeppe Vontilius, Bartholins Allé 3, Aarhus.

**Online transmission available on Zoom**

After the defence everyone is welcome to join the reception hosted by  
Department of Occupational and Environmental Medicine.  
Please register with Christine Leonhard Birk Sørensen (chleso@rm.dk) before September 25<sup>th</sup>.

**ASSESSMENT COMMITTEE:**

Dorte Rytter, PhD, Associate Professor (Chairman),  
Aarhus University, Denmark.

Ellenor Mittendorfer-Rutz, PhD, Professor,  
Karolinska Institutet, Sweden.

Terese Sara Høj Jørgensen, PhD, Associate Professor,  
University of Copenhagen, Denmark

**MAIN SUPERVISOR:**

Karin Biering, PhD, Associate Professor,  
Gødstrup Hospital, Denmark.

**CO-SUPERVISORS:**

Ute Bültmann, PhD, Professor,  
University of Groningen, the Netherlands.

Oleguer Plana-Ripoll, PhD, Professor,  
Aarhus University, Denmark.

Trine Nøhr Winding, PhD, Associate Professor,  
Gødstrup Hospital, Denmark.

## INVITATION TO PHD DEFENCE

The Occupational Exposome and Lung Health  
- COPD and Lung Function

Friday, November 7<sup>th</sup>, 2025, at 14.00, Aarhus University  
Samfundsmedicinsk Auditorium, Building 1262-101,  
Bartholins Allé 4, 8000 Aarhus C

The defence can also be viewed online. To request a  
link, please contact Theresa: [tmk@ph.au.dk](mailto:tmk@ph.au.dk)



Theresa Møller Kynde

Occupational exposures significantly contribute to chronic obstructive pulmonary disease (COPD) and lung function decline. In her PhD project, Theresa Møller Kynde applied an exposome approach to investigate how multiple occupational exposures and biomarkers relate to new-onset COPD and lung function decline. Using data from the European Community Respiratory Health Survey (ECRHS) and the CONSTANCES cohort and covering 49 exposures, factors such as forward-bent postures, heavy lifting, gases and fumes, diesel exhaust, mineral dust, and solvents were linked to COPD development. Biomarker analyses (in ECRHS) showed generally lower levels of CC16 and YKL-40 in exposed individuals. Lower CC16 levels were associated with reduced lung function and greater decline, while higher YKL-40 levels correlated with lower lung function and higher FEV<sub>1</sub> decline. This project confirms that chemical occupational exposures play a role in COPD development and highlights novel links with ergonomic and physical exposures, as well as associations between CC16, YKL-40, and lung function decline.

After the defence, everyone is welcome to join the reception hosted by the Department of Public Health.

### ASSESSMENT COMMITTEE

Christina C. Dahm, Associate Professor, PhD  
Department of Public Health, Aarhus University, DK

Sara de Matteis, Associate Professor, PhD,  
Department of Health Sciences,  
University of Milan, IT

Erik Jørs, Associate Professor, PhD,  
Department of Occupational and Environmental  
Medicine, Odense University Hospital, DK

### SUPERVISORS

Vivi Schünssen, Professor, PhD  
Department of Public Health, Aarhus University, DK

Anne Mette Lund Würtz, Assistant Professor, PhD  
Department of Public Health, Aarhus University, DK

Anjoeka Pronk, PhD, Netherlands Organisation for  
Applied Scientific Research, NL

Henrik Albert Kolstad, Professor, PhD  
Department of Occupational and Environmental  
Medicine, Aarhus University Hospital, DK

Vivi Just-Nørregaard  
MSc Public Health

# INVITATION

PhD defence  
Vivi Just-Nørregaard



Tuesday, November 18th 2025 at 13:00  
Regionshospitalet Gødstrup, NIDO L118,  
Hospitalsparken 15, Herning.



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The role of psychosocial stressors and perceived stress in adolescence and young adulthood and later body mass index and HbA1c levels.

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After the defence everyone is welcome to join the reception hosted by Department of Occupational and Environmental Medicine, Gødstrup Hospital.  
Please register on [arbejdsmedicin@goedstrup.rm.dk](mailto:arbejdsmedicin@goedstrup.rm.dk) before November 10<sup>th</sup>.

**ASSESSMENT COMMITTEE:**

Henriette Nørnølle Buttenschøn, PhD,  
Associate Professor, NIDO | Centre for  
Research and Education, Gødstrup Hospital  
Department of Clinical Medicine, Faculty of  
Health, Aarhus University (Chairman).

Ragnhild Bjarkey Strandberg, PhD, Associate  
Professor, Department of Caring and Health  
Sciences, Western Norway University of  
Applied Sciences.

Jannie Nielsen, PhD, Associate Professor  
Section of Social Medicine, Department of  
Public Health, University of Copenhagen.

**MAIN SUPERVISOR:**

Trine Nøhr Winding, PhD, Associate Professor,  
Department of Occupational Medicine  
University Research Clinic, Danish Ramazzini  
Centre, Gødstrup Hospital.

**CO-SUPERVISORS:**

Johan Hviid Andersen, MD, PhD, Professor  
Department of Occupational Medicine  
University Research Clinic, Danish Ramazzini  
Centre, Gødstrup Hospital.

Jens Meldgaard Bruun, MD, PhD, Professor  
Steno Diabetes Center Aarhus,  
Aarhus University Hospital.

Vita Ligaya Dalgaard, cand.scient.psych, PhD,  
Associate Professor, Department of Psychology  
and Behavioural Sciences, Aarhus University.

## Ramazzini Research Grants

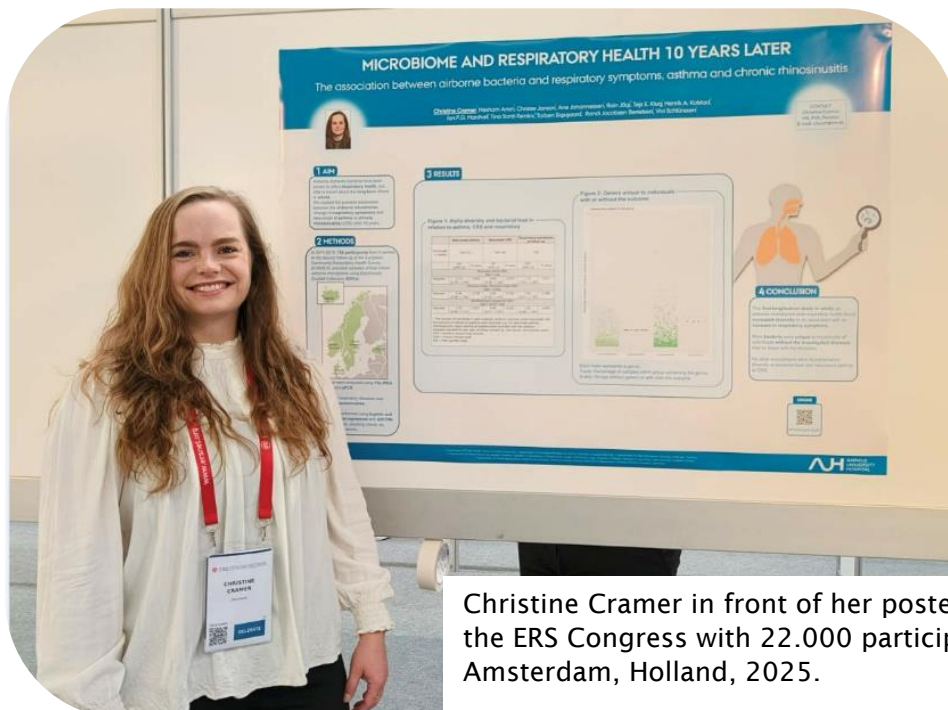
In 2025 the following researchers was awarded grants to support participation in conferences or courses.

### Spring

- Christine Leonhard Birk Sørensen: 18<sup>th</sup> European Public Health Conference, 2025, Helsinki, Finland
- Pernille Bach Steen: 18<sup>th</sup> European Public Health Conference, 2025, Helsinki, Finland
- Thoranna Gilbertsdottir: The Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology, 2025, Atlanta, Georgia, USA

### Autumn

- Anne Mette Lund Würtz: EPICOH (Epidemiology in Occupational Health) Conference, 2025, Utrecht, Holland
- Christine Cramer: European Respiratory Society Congress, 2025, Amsterdam, Holland
- Claus Kjærgaard: 12<sup>th</sup> International Scientific Conference on the Prevention of Work-Related Musculoskeletal Disorders, 2025, Tübingen, Tyskland



Christine Cramer in front of her poster at the ERS Congress with 22.000 participants. Amsterdam, Holland, 2025.



Thoranna Gilbertsdottir giving her talk at the ISES-ISEE. Atlanta, USA, 2025.



Christine Leonhard Birk Sørensen and Pernille Bach Steen during talks and poster presentation at the European Public Health Conference. Helsinki, Finland, 2025.

## Lecturer of the Year Award – Jörg Schullehner

In December 2025, Faculty of Health at Aarhus University announced the annual Lecturers of the Year, with students nominating and voting for educators who delivered outstanding teaching throughout the year.

Among this year's distinguished awardees was associate professor Jörg Schullehner from Department of Public Health, who was recognized for his empathetic and highly supportive teaching style. Jörg is head of the course *Environment and Health* on the B.Sc. in Public Health programme.

### Associate Professor Jörg Schullehner Public Health

Jörg Schullehner is praised for his empathetic and highly supportive approach to teaching, as well as for his ability to communicate in a way that makes topics relatable. In the students' own words, he is "excellent at lecturing".



Lecturers of the year have been announced. This years winners are: Bjarke Andreassen, Jörg Schullehner, Charlotte Hübsch, Tina Wang Vedela, Christian Bjerregaard Vægtø, Vibe Lindhardt Ishwata og Michael Jessen.

Photo: Simon Fischel, AU Health. Genereret med Adobe Firefly

## Ramazzini Forum 2025

Ramazzini Forum was initiated in 2021. The aim is to gather the entire centre once a month for a one-hour virtual meeting. The topic is decided by the organising department and can cover all aspects of research, from discussion of project ideas to the presentation of final results.

### Programme

07.02.2025: Claus Kjærgaard, Aalborg University and Department of Occupational Medicine, AUH

"Chronic musculoskeletal pain among surgeons: Examination of potential risk factors, biomarkers, and treatment strategies"

11.04.2025: Eyal Oren, School of Public Health, San Diego State University

"Taking on the Heat: The San Diego State University Prevention Research Center"

09.05.2025: Jörg Schullehner, Department of Public Health – Environment, Occupation and Health, Aarhus University

"Towards a New Limit for Nitrate in Danish Drinking Water?"

13.06.2025: Jesper Medom Vestergaard, Department of Occupational Medicine, AUH

"Working evening and night shifts and risk of coronary heart disease, myocardial infarction, and breast cancer, a 14-year follow-up study of payroll data"

12.09.2025: Simone Ejstrup, Department of Occupational and Environmental Medicine, Grindsted Hospital, University Hospital of Southern Denmark

"Associations between influence over working hours and physical capacity and cardiovascular risk factors among older workers"

10.10.2025: Christine Leonhard Birk Sørensen, Department of Occupational Medicine, Gødstrup Hospital

"Developmental trajectories in depressive symptoms through adolescence and adulthood: does socio-economic status matter? – a talk about mental health inequalities, life course epidemiology, and handling of selection bias in longitudinal data"

12.12.2025: Asbjørn Kloppenborg, Department of Public Health – Environment, Occupation and Health, Aarhus University

"From Ambient to Personal Air Pollution Monitoring: Opportunities and Limitations of Low-Cost PM2.5 Sensors"

## Ramazzini Junior Seminar 2025

The Ramazzini junior seminar targeting researchers at or below postdoc level was held on September 2-3, 2025 at Tunø with 12 participants. The program explored professional personalities, strengthened LinkedIn skills, and encouraged reflection on academic dilemmas, while providing insights into fraud, integrity, and effective task management.

The seminar was arranged by Charlotte Gabel, Karin Rosenkilde Laursen and Jörg Schullehner.



# Program

## Tuesday 2<sup>nd</sup> of September 2025

- 08.00-08.30 Departure from Hou harbor  
Breakfast during the ferry trip
- 09.30-10.15 Check-in Blåkjærsgaard
- 10.15-11.15 Welcome and round of presentation  
*Organizers*
- Formal information about the seminar and a round of presentation. All participants have beforehand handed in two slides and have two minutes to present themselves.
- 11.15-12.00 Personality tests  
*Vibeke Broe*
- Participants will have two profiles (Profile and dream job) at their disposal and are to be finalized in this session.
- 12.00-13.00 Lunch
- 13.00-15.00 Workshop: Going forward with your personality  
*Vibeke Broe*
- In this workshop you will be challenged about your personality, your preferences, work tasks and cooperation. And are you even in your dream job position?
- 15.00-15.30 Break
- 15.30-16.30 Fraud video  
*Organizers*
- Francesca Gino had a position at Harvard University teaching fraud but was later accused of the exact same. In this session we will see the video and discuss afterwards.
- 16.30-18.30 Break (Take a walk or swim, play miniature golf, relax, etc.)  
*Organizers*
- Organizers will facilitate different events and you are welcome to join.
- 18.30 Dinner followed by the possibility to play games

## Wednesday 3<sup>rd</sup> of September 2025

- 08.00-09.00 Breakfast
- 09.00-09.15 Welcome  
*Organizers*
- 09.15-10.15 How to combat LinkedIn (online)  
*Simon Byriel (AU communication)*
- In this crash course, we will cover 9 central tips to writing LinkedIn posts that engage readers and gain reach.
- 10.15-12.15 Workshop  
*Bodil Øster*
- Mental wellbeing is key - Tame your inner critic and pave the way to better work-life balance
- 12.15-13.15 Lunch – check out
- 13.15-14.00 Dilemma game and wrap-up  
*Organizers*
- You will be divided into groups where you will play the dilemma game.
- 14.15-16.30 Tour de Tunø with a Traxa and departure to the ferry
- 17.10 Arrival at Hou

Danish Ramazzini Centre  
Dept. of Public Health  
Aarhus University

Dept. of Occupational Medicine  
Aarhus University Hospital

Dept. of Occupational Medicine,  
University Research Clinic, Gødstrup Hospital

Dept. of Occupational and Environmental Medicine  
Aalborg University Hospital

## 14th Annual Ramazzini Seminar

The Ramazzini seminar took place on November 5–6 in the wonderful setting of Sandbjerg Manor and was attended by 31 participants. This year's program had a new and exciting focus on graphical abstracts, combining an online workshop with hands-on training where participants worked creatively with their own content. The resulting abstracts were later showed in a graphical abstracts exhibition, which also served as a social networking activity. The program also highlighted exciting ongoing or recently finished PhD projects, with PhD students from each department presenting their research.

The seminar was arranged by Karin Biering, Alexander Gorny, Charlotte Gabel, Catalina Aros, Henrik Kolstad and Kirsten Pugdahl.

### Programme

#### Wednesday 5 November 2025

9.30–10.00	Registration and coffee
10.00–10.15	Welcome and practical information Organising Committee
10.15–12.15	Graphical abstract workshop (online) Meike Latz Scientist and visual science communicator Stockholm, Sweden
12.15–13.15	Lunch and check in
13.15–13.30	Photo
13.30–15.30	Hands on graphical abstracts Facilitator: Mie Kirkeby Dept. of Occupational and Environmental Medicine Goedstrup Hospital
15.30–17.30	Break
17.30–19.00	Graphical abstracts exhibition Dry Ramazzini
19.00-	Dinner

#### Thursday 6 November 2025

8.00–9.00	Breakfast and check out
9.15–9.45	Are mechanical exposures at work a cause of lumbar disc herniations? A register- and population-based target trial emulation study Mathias Moselund Rønnow Dept. of Occupational and Environmental Medicine Goedstrup Hospital
9.45–10.15	The effect of long-term night shift work on risk of breast cancer among women healthcare workers: a target trial emulation Jesper Medom Vestergaard Dept. of Occupational and Environmental Medicine Aarhus University Hospital
10.15–10.30	Break
10.30–11.00	Does low-dose residential exposure to radon increase the risk of acute mye- loid leukemia or multiple myeloma? Mette Hyllegaard Madsen Lise Dueholm Bertelsen Dept. of Occupational and Environmental Medicine Aalborg University Hospital
11.00–11.30	Microbiome and respiratory health Christine Wulff Cramer Dept. of Public Health Aarhus University
11.30–12.00	Evaluation and closing remarks Organising Committee
12.00–13.00	Lunch and goodbye

Please register before 1 September 2025  
[Registration form](#)

# Ramazzini Group at Sandbjerg Gods November 5, 2025



## PhD course: Quantitative exposure assessment in occupational and environmental epidemiology

October 26–31 Danish Raamazzini Centre arranged the 8<sup>th</sup> PhD course in quantitative exposure assessment in occupational and environmental epidemiology at Sandbjerg Manor with participants from Belgium, Sweden, Norway and Denmark. The course focused on advanced methods for analysing exposure data, including random-effects analyses, job exposure matrices, and the evaluation of exposure metrics. The course equipped participants with the skills needed to design exposure assessment strategies and to interpret exposure–effect relationships.

The programme combined lectures, practical exercises, and discussions of participants' research projects. It was aimed at PhD students and other early-career researchers with a basic background in epidemiology and statistical methods.

[← BACK](#)

### Course **Quantitative exposure assessment in occupational and environmental epidemiology - RESIDENTIAL COURSE**



ECTS: 3.5

Graduate program: PH

Application deadline: 04/08/2025

Administrator: [Anne Fabricius Søndergaard](#)

Course leader: Vivi Schlünssen

Course fee: 4,200.00 DKK

Cancellation deadline: 11/08/2025

Language: English

Status: Course is finished

Course type: Residential course

Graduate school: Faculty of Health

Semester: Fall 2025

Start date: 26/10/2025

[Sign in to register >](#)



Instructors from the Ramazzini center:

- Vivi Schlünssen and Annett Dalbøge (Course leaders)
- Christine Cramer • Alexander Gorny • Henrik Kolstad

Other instructors:

- Prof. Alex Burdorf, Erasmus MC, Rotterdam • Dr. Susan Peters, Utrecht University
- Prof. Esben Budtz-Jørgensen, Copenhagen University



## Projects

### Ongoing PhD Projects 2025

PhD student	Project title	Main supervisor	Department	Enrolled	Funding
Caroline Lindholm Pedersen	Safe Handling of Acrylate-Containing Nail and Eye-lash Products in the Beauty and Skincare Industry	Marianne Kyndi	RHG	01.06.2025	AMFF
Henrik Engholm Feldtmose	The impact of the work environment on sustainable return-to-work after sick leave due to work-related stressors	Kent Jacob Nielsen	RHG	01.06.2025	AMFF
Hani Sheik Mohamed	Solar radiation, vitamin D level and risk of depression: a population-based cohort study	Henrik Kolstad	AUH	01.06.2025	AMFF, Horizon Europe
Andrés Barrena Calderón	Inflamm@work: Work life, inflammation, and cardiovascular disease	Zara Ann Stokholm	AUH	01.04.2025	AMFF
Lise Dueholm Bertelsen	Environmental and Occupational Exposures and Risk of Acute Myeloid Leukemia and Multiple Myeloma	Marianne Tang Severinsen Jakob Bønløkke*	Aalborg UH	01.09.2024	Sygeforsikringen "danmark"
Alexander Jahn Jensen	Occupational mechanical exposures and upper body osteoarthritis	Annett Dalbøge	AUH	01.06.2024	Gigtforeningen, AMFF
Lea Nørgaard Sørensen	Stop for Stress - a randomized controlled trial of an online treatment for work-related stress	Zara Ann Stokholm	AUH	01.04.2024	AMFF, Helsefonden
Claus Kjærgaard	Musculoskeletal pain among surgeons: Examination of the prevalence, potential risk factors and treatment interventions	Tommy Kjærgaard Nielsen Annett Dalbøge*	AUH	01.02.2024	Aalborg Universitetshospital
Mette Hyllegaard Madsen	Environmental exposures and risk of hematologic cancers	Jakob Bønløkke	Aalborg UH	01.08.2023	Sygesikring Danmark
Mathias Moselund Rønnow	Occupational mechanical exposures and severe low back disease	Johan Hviid Andersen	RHG	01.12.2022	AMFF
Pernille Bach Steen	The trajectory of stress from adolescence to young adulthood	Karin Biering	RHG	01.08 2022	Sygeforsikringen "danmark"
Asbjørn Kloppenborg	How to synchronize Big Data in health care research in an ethically acceptable manner?	Torben Sigsgaard	AU	01.09 2019	Novo Grand Challenges, BERTHA

PhD student	Project title	Main supervisor	Department	Enrolled	Funding
Mette Jørgine Kirkeby	Unge introduktion på arbejdsmarkedet og arbejdsmarkedstilknytning - betydningen af sårbarhed, arbejdsmiljø og arbejde-privatliv konflikter.	Johan Hviid Andersen	RHG	01.04 2014	AMFF

\* Supervisor affiliated with the Ramazzini Center

## Completed PhD Projects 2009-2025

Candidate	Thesis title	Main supervisor	Department	Defence	Funding
Vivi Just-Nørregaard	The role of psychosocial stressors and social inequality in adolescence and young adulthood and later risk of prediabetes or type 2 diabetes	Johan Hviid Andersen	RHG	18.11 2025	IKM, AU
Theresa Møller Kynde	Working-life exposome and the association with lung function and obstructive lung disease among men and women	Vivi Schlünssen	AU	07.11.2025	EPHOR (Exposome Project for Health and Occupational Research)
Christine Leonhard Birk Sørensen	Mental health in adolescence and early adulthood.	Karin Biering	RHG	27.06.2025	Sygeforsikringen "danmark", KV fonden
Christine Wulff Cramer	The Airborne and Oral Microbiome in Relation to Allergy, Asthma and Chronic Rhinosinusitis.	Vivi Schlünssen	AU	27.06.2025	AU Health
Jesper Medom Vestergaard	Working evening and night shifts and risk of coronary heart disease, myocardial infarction, and breast cancer, a 14-year follow-up study of payroll data.	Henrik Kolstad	AUH	24.06 2025	AMFF
Jane Bjerregaard Lauridsen	Systematic evaluation of working conditions and organisation of individual work - a model to decrease sick leave during pregnancy	Rikke Damkjær Maimburg	AUH	10.10 2024	Sundhedsstyrelsen, Arbejdsmiljøforskningsfonden og Region Midtjylland
Charlotte Gabel	Health effects from dwelling retrofitting projects in Denmark – A real-life longitudinal intervention study in an interdisciplinary framework.	Torben Sigsgaard	AU	16.08 2024	Innovationsfonden, Realdania

<b>Candidate</b>	<b>Thesis title</b>	<b>Main supervisor</b>	<b>Department</b>	<b>Defence</b>	<b>Funding</b>
Karoline Kjærgaard Hansen	The chemical and biological work environment when recycling municipal waste: The RECYCLE-project	Henrik Kolstad	AUH	15.03 2024	AMFF
Inge Brosbøl Iversen	Occupational dust exposure and early pulmonary diseases. A study of dust levels and CT findings, the EkSACT-study	Henrik Kolstad	AUH	19.01 2024	AMFF
Birgith Engelst Grove	Remote symptom monitoring using patient-reported outcome (PRO) measures in patients with chronic kidney disease – the PROKID trial	Niels Henrik Hjørlund	RHG	15.12 2023	Karen Elise Jensens Fond, Trygfonden, Helsefonden
Linda Christie Andrea	Impingement-related shoulder disorders – prognosis and choice of treatment: a prospective cohort study	Annett Dalbøge	AUH/RHG	06.11 2023	AMFF
Alexandra Golabek Christensen	Risk and prevention of dermatitis and skin sensitization following occupational exposure to epoxy components	Henrik Kolstad	AUH	25.08 2023	AMFF
Cecilie Rud Budtz	Physiotherapists' use of red flags as a screening method for detection of serious pathology in primary care	David Høyrup Christiansen	RHG	09.12 2022	Danske Fysioterapeuters Fond for forskning, uddannelse og praksisudvikling, Fysioterapi-praksisfonden, RMs Praksis-forskningsfond, Forskningsfond Hospitalsenheden Vest og Aarhus Universitet
Søren Mose	Trajectories of health care service utilisation in people with musculoskeletal disorders in Denmark	Johan Hviid Andersen	RHG	28.10 2022	VIA University College, Gigtfor-eningen, NIDO, RHG
Mia Klinkvort Kempel	The impact of social inequality and insecurity on the risk of early signs of cardiovascular and metabolic disease in young adults	Johan Hviid Andersen	RHG	23.09 2022	Karen Elise Jensens Fond, RMs sundhedsvidenskabelige forskningsfond
Birgitte Hamann Laustsen	Occupational asthma and allergy in the Greenlandic fish processing industry	Jakob Bønløkke	AAUH	27.06 2022	Polar Seafood, Royal Greenland, Grønlands Sundhedsvidenskabelige Forskningsråd, Arbejdsmarkedets parter, Arbejds miljørådet, Grønlandsbanken, AMFF

Candidate	Thesis title	Main supervisor	Department	Defence	Funding
Karin Rosenkilde Laursen	Acute health effects of fine and ultrafine particles in indoor air – A human exposure study among vulnerable population subgroups	Torben Sigsgaard	AU	10.12 2021	Realdania, AU
Signe Hjuler Boudigaard	Occupational Exposure to Respirable Crystalline Silica, Styrene and risk of Autoimmune Rheumatic Diseases.	Henrik Kolstad	AUH	24.02 2021	AMFF
Signe Timm	Asthma and farm exposure in early life and across generations.	Vivi Schlünssen	AU	29.01 2021	Sektion for Miljø, Arbejde og Sundhed, AU
Martin Rune Hansen	VEctor Control, Asthma and Diabetes in Uganda (VECADU)	Vivi Schlünssen	AU	16.06 2020	AU, NFA
Kristoffer Norheim	Physical fitness among older manual workers	Pascal Madeleine	AAUH, AAU	12.06 2020	AMFF
Liv Marit Valen Schougaard	Liv efter apopleksi	Niels Henrik Hjørlund	RHG	04.06 2020	RM
Kathrine Pape	Stress faktorer på arbejde og i privatliv hos gravide kvinder: Betydning for astma og andre allergiske sygdomme hos børnene	Vivi Schlünssen	AU	15.05 2020	AMFF
Per Høgh Poulsen	Social inequality in childhood and later effects on mental health and overweight	Johan Hvid Andersen	RHG	24.02 2020	Karen Elise Jensens fond og Herning kommune
Sofie Büneman Dalsgaard	Environmental Asbestos Exposure During Childhood and Cancer Risk Later in Life – A Long-term Register-based Cohort Study.	Øyvind Omland	AAUH	30.04 2019	Health, AU
Sorosh Tabatabaeifar	Carpal tunnel syndrome and work: time course of nerve impairment, incidence rates as sentinels of harmful occupational exposure, and prognosis	Poul Frost	AUH	30.11. 2018	AMFF
Marie Vestergaard Vad	Predictors of inguinal hernia repair and chronic postoperative pain - impact of occupational mechanical exposures	Poul Frost	AUH	29.10. 2018	AMFF
Dorte Raaby Andersen	Fængselsbetjentes håndtering af følelsesmæssige krav og belastninger i arbejdet	Thomas Lund	RHG	18.04 2018	AMFF
Stine Daugaard	Occupational light exposure, melatonin, and vitamin D	Henrik Kolstad	AUH	15.12 2017	KI

<b>Candidate</b>	<b>Thesis title</b>	<b>Main supervisor</b>	<b>Department</b>	<b>Defence</b>	<b>Funding</b>
Pia Viuf Ørby	Cross-Disciplinary studies on pollen in health and environmental sciences	Vivi Schlünssen	AU	13.12 2017	AU
Anita Eskildsen	Work-related stress and cognitive impairments – a longitudinal clinical study	Johan Hviid Andersen	RHG	05.05 2017	AMFF
Ligaya Dalgaard	Treating patients on sick leave due to work-related stress – Two randomized controlled trials of a stress-management intervention	Johan Hviid Andersen	RHG	07.04 2017	AMFF
Thomas Winther Frederiksen	Occupational Noise Exposure and Individual Risk Factors for Hearing Loss and Tinnitus	Henrik Kolstad	AUH	24.03 2017	AMFF
Anneli Clea Bolund	Change in lung function – The impact of organic dust exposure as well as associations with DNA methylation signatures	Vivi Schlünssen	AU	20.01 2017	AU
Mette Skovgaard Christensen	Styrene exposure and cancer risk in reinforced plastics workers – A long-term cohort study	Henrik Kolstad	AUH	02.9 2016	AMFF
Mette Lausten Hansen	Sick leave in pregnancy - risk factors and prognosis – Studies among Danish employed women	Cecilia Ramlau-Hansen	AUH	23.05 2016	Ramazzini, AU
Louise Pape Larsen	Life after Stroke – Self-rated health and return to work in a Danish cohort following stroke	Niels Henrik Hjølund	RHG	02.03 2016	AU
Helene Tilma Vistisen	Short term effects of night shift work on risk of overall breast cancer and breast cancer classified by oestrogen and HER2 receptor status	Henrik Kolstad	AUH	18.12 2015	AMFF
Charlotte Rasmussen	Interpersonal behaviour and risk of workplace violence and threats	Annie Høegh	RHG	17.11 2015	AMFF
Annett Dalbøge	Occupational cumulative mechanical exposures as risk factors for surgery for subacromial impingement syndrome	Johan Hviid Andersen	AUH	25.04 2015	Ramazzini, AMFF, GRASPH, Gigtforeningen, Forsknings-Apparatur-fonden
Else Toft Würtz	Occupational Exposure and COPD – A Danish population-based study	Øyvind Omland	AAUH	24.03 2015	Region Nordjylland
Tanja Kirkegaard	Stress as a sociocultural phenomenon – Exploring the distributed nature of stress in an organizational context	Svend Brinkmann	RHG	06.01 2015	AMFF

Candidate	Thesis title	Main supervisor	Department	Defence	Funding
Susanne Lund Kristensen	Reproductive function of young Danish women – Long-term effects of prenatal exposure to persistent environmental pollutants	Erik Ernst	AUH	17.11 2014	DSF, Beckett-Fonden, Div. legater og fonde
Birgit Bjerre Høyer	Prenatal exposure to persistent organic pollutants and physical, mental and motor development in young children	Gunnar Toft	AUH	31.10 2014	Ramazzini, AU, FP7
David Høyrup Christiansen	Physiotherapy and shoulder surgery – Exercise treatment before and after decompression surgery in patients with subacromial impingement syndrome	Susanne Wulff Svendsen	RHG	28.10 2014	Ramazzini, DSF
Trine Nøhr Winding	The transition from school to work life – Educational attainment and work environment in a Danish youth cohort	Johan Hviid Andersen	RHG	10.10 2014	AMFF
Zara Ann Stokholm	Occupational Noise Exposure, Physiological Stress, and Cardiovascular Health	Henrik Kolstad	AUH	21.02 2014	AMFF
Anne Vested	Reproductive health of young Danish men following prenatal exposure to persistent organic pollutants	Gunnar Toft	AUH	29.01 2014	FSS
Regine Grytnes	Tryghed i nuet – Arbejdssikkerhed blandt tømrerlæringer i Danmark	Anne Line Dalsgård	RHG	22.10 2013	AMFF
Matias Grynderup	Psychosocial working conditions, physiological stress, and the risk of depression	Henrik Kolstad	AUH	20.08 2013	Ramazzini, Lundbeck A/S
Grethe Elholm	The Effect of Farming Exposure on Allergy and Atopy	Øyvind Omland	AU	10.07 2013	Ramazzini, AU
Simon Grandjean Bamberger	Globalization, pressure to change and psychosocial work environment: the implication of management on mental health	Øyvind Omland	AAUH	25.06 2013	AMFF
Stine Yde Nielsen	Q fever in pregnancy and fetal health: Epidemiological studies	Niels Henrik Hjørlund	RHG	21.06 2013	Ramazzini, AMFF
Louise Møller Pedersen	Integreret ulykkesforebyggelse, delprojekt C	Peter Nielsen	RHG	05.06 2013	AMFF
Berit Hvass Christensen	Maternal occupational exposure during pregnancy and the risk of allergic disease in the children	Vivi Schlünssen	AU	03.06 2013	AAMF, AU

Candidate	Thesis title	Main supervisor	Department	Defence	Funding
Karin Biering	Life after Heart Disease – Patient-reported health measures and prognosis following PCI treatment	Niels Henrik Hjørlund	RHG	31.05 2013	AMFF, Hjertereforeningen
Jens Christian Jensen	Predictors of care-seeking in general practice for back pain and upper extremity pain – A Danish population-based study	Johan Hviid Andersen	RHG	09.11 2012	AMFF
Morten Søndergaard Jensen	Cryptorchidism in Denmark: Studies of Registry Validity, Disease Etiology, and Timing of Corrective Surgery	Ane Marie Thulstrup	AUH	17.08 2012	AU
Ioannis Basinas	Dust and endotoxin exposure in animal farming populations – Formulating the basis for a model-based exposure assessment approach	Torben Sigsgaard	AU	01.11 2011	AU, GRASPH
Morten Vejs Willert	Measures against work-related stress – results from a randomized, wait-list controlled trial of a group-based, cognitive behavioural stress management intervention	Ane Marie Thulstrup	AUH	01.10 2011	AMFF
Tine Rubak	Cumulative physical exposure in the work environment as a risk factor for primary osteoarthritis leading to total hip replacement	Poul Frost	AUH	28.05 2010	AMFF
Claus Dalsgaard Hansen	En sociologisk fortælling om sygefravær	Lisbeth B. Knudsen	RHG	09.04 2010	AMFF
Tine Halsen Malling	Glutathione Peroxidase 1 and asthma. A cross-sectional analysis of associations between genetic polymorphism, enzymatic activity, selenium concentration, oxidative stress and inflammatory disease in a population sample	Øyvind Omland	AAUH	29.06 2009	
Torsten Munch-Hansen	Prevention of Sickness Absence – A study of associations between psychosocial work conditions and health outcomes in a large public services population	Jens Peter Bonde	AUH	12.02 2009	AMFF

## Completed Research Year and Master Projects 2025

Candidate	Faculty	Thesis title	Supervisors	Department
Abilash Chandrasek Nerojee Sivaganesh	Medicine	Shift work, gender and disease risk in the healthcare system	Alexander Gorny	AUH
Amalie Arent	Public Health	Three-year cumulative study of occupational hand exposure and carpal tunnel syndrome: A Danish nationwide cohort study	Alexander Jahn Annett Dalbøge	AUH
Annemette Baalsgaard Cecilie Dall Jensen	Public Health	Langsigtede konsekvenser for arbejdsmarkedstilknytningen hos patienter med arbejdsrelateret stress sammenlignet med den generelle befolkning.	Karin Biering Morten Willert	RHG
Ida Kristensen	Medicine	Work-related UV exposure and risk of melanoma skin cancer	Alexander Gorny Zara Ann Stokholm	AUH
Imsel Taskiran	Medicine	Electrical injuries and Tinnitus	Karin Biering	RHG
Jessica Yen Tung Liu	Medicine	Chronotype and the Risk of Depression	Zara Ann Stokholm Vivi Schlünssen	AUH
Lise From Jacobsen	Medicine	Personlig foretrukken døgnrytme og risiko for psykisk sygdom hos unge kvinder	Alexander Gorny Henrik Kolstad	AUH
Lucy Rebecca Davies	Science	Health impacts of indoor air pollution: analysis of exposure, respiratory outcomes, and systemic biomarkers	Torben Sigsgaard	AU
Maja Brorsbøl	Public Health	Tætte venskaber og familiefunktion i ungdommen og oplevet stress i tidlig voksenalder- et longitudinelt studie	Trine Nøhr Winding	RHG
Marlene Svejgaard Svinth	Public Health	Unge fritidsaktiviteter og fritidsjobs betydning for mental sundhed i tidlig voksenalder	Karin Biering	RHG
Mathias Ravnsborg	Medicine	Neurotoksisk eksponering og risiko af psykisk sygdom	Henrik Kolstad	AUH
Mette Thyrsting	Medicine	Assessment of a possible association between occupational organic solvent exposure and a higher risk of mental disorders	Hani Sheik Mohamed Henrik Kolstad	AUH
Olivia Bremland	Medicine	Erhvervsmæssig eksponering for ultraviolet stråling og risikoen for grå stær	Andrés Barrena Calderón Zara Ann Stokholm	AUH
Signe Uhre	Public Health	Sammenhængen mellem arbejdsmiljøet som ung voksen og selvvurderet helbred som 32-årig	Trine Nøhr Winding	RHG
Sofie Hjarnø Petersen	Medicine	Work-Related Musculoskeletal Pain in Surgeons: An overview of systematic reviews	Alexander Jahn Claus Kjærgaard Annett Dalbøge	AUH

## Ongoing Research Projects 2025

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
AiRMA: Airborne and oral microbiome in relation to respiratory disease and allergy	The study explores the relationship between the airborne and oral microbiome and their relation to the occurrence of respiratory diseases and sensitisation.	Oral and airborne microbial samples are investigated (cross sectional and follow-up) in relation to respiratory diseases (questionnaire), sensitisation, FeNO and lungfunction.	AU (Christine Cramer, Vivi Schlünsen, Torben Sigsgaard) AUH (Henrik Kolstad)	AU: Dept.of Biology, Section for Microbiology. AUH: Dept.of Otorhinolaryngology, Head and Neck Surgery	AU 1.800.000	2019-2025
Arm elevation and shoulder complaints	The aim is to examine the relationship between work with arms elevated and the risk of shoulder disorders.	The project comprises four epidemiologic studies, that uses an existing cohort of app 2½ million Danes. The outcome is surgery for subacromial impingement syndrome. Data about work with elevated arms are obtained by linking individual job information (1993-now) to a validated shoulder database with exposure targets based on technical measurements. The exposure-response relationship is examined by logistic regression controlled for other risk factors.	AUH (Annett Dalbøge) RHG (Johan Hviid Andersen)	Bispebjerg Hospital: Dept.of Occupational and Environmental Medicine. Washington University. IRSET. University of Angers	AMFF. Gigtforening. 2.163.364	2020-2025
ARMIE: Arrhythmia, Myocardial infarction & the Environment	The main aim of ARMIE is to examine the effect of fluctuating levels in air pollution on cardiovascular patients' risk of various cardiovascular outcomes.	The studies are mainly conducted using the case-crossover method. We include two cohorts. The first one is a cohort of ICD patients with an outcome of arrhythmias. The other cohort includes 14.000 cases of acute myocardial infarction.	AU (Asbjørn Kloppeborg, Torben Sigsgaard, Rasmus Østergaard Nielsen)	AUH: Dept. of Cardiology	Karen Elise Jensens Fond 3.170.000	2021-2025

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
Association between workplace environmental factors and the development of chronic obstructive pulmonary disease (COPD)	To present an updated review of international literature on the link between occupational airborne exposures and COPD risk. Previous studies show that exposure to organic and mineral dust particles is linked to increased COPD risk. However, knowledge about the risks from specific exposures is limited, and there is insufficient data to assess the extent of the risk relative to exposure levels, which is crucial for setting limit values and evaluating work injury claims."	Systematic review and meta-analysis of existing epidemiological literature.	AUH (Mette Lausten Hansen, Zara Ann Stokholm, Henrik Kolstad) Aalborg UH (Jakob Bønløkke, Else Toft Würtz, Øyvind Omland) AU (Vivi Schlünssen)	Bispebjerg Hospital: Occupational and Environmental Medicine. University of Copenhagen: Dept. of Public Health. Grindsted Hospital: Dept. of Epidemiology. Hvidovre Hospital: Dept. of Respiratory Diseases	AMFF 1.133.640	2024-2025
BERTHA (Big Data Centre for Environment and Health).	BERTHA aims to explore the environment's (air, water and soil) effect on somatic disorders.	Studies of the Danish population via registers, including health-, social-, and environmental registers.	AU (Vivi Schlünssen, Torben Sigsgaard, Signe Frandsen, Jörg Schullehner, Rasmus Østergaard, Asbjørn Kloppenborg)	AU: ENVS CIRRAU. AUH: DBDS, Heart. Utrecht University. Harvard School of Public Health	Novo Nordisk Fonden 15.000.000	2019-2025
BIOFUEL	To investigate the health implications of working with biofuel	Clinical examinations, exposure assessments and questionnaires of workers at biofuel plants in 2003 and again in 2024.	AU (Vivi Schlünssen, Christine Cramer)	NFA	AMFF 3.100.000	2023-2026

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
BioNet: Euro-African Biomonitoring Network	The overall objective of this project is closer cooperation between European (Belgium, Luxembourg, and Denmark) and African (Morocco, Benin, and Ethiopia) universities by co-building capacities in environmental health for the assessment of environmental exposure in the population.	Multidisciplinary approach to establish and operationalize sentinel surveillance systems for environmental and occupational health in Morocco, Ethiopia, and Benin through need assessment to identify local health risks and data gaps; capacity building via training sessions and e-learning modules for local researchers and health professionals; and data collection and setting up sentinel surveillance through Human Sentinel Surveillance Platform (HSSP).	AU (Vivi Schlünsen, Anupa Rijal, Maria Wielsøe)	The project is coordinated by KU Leuven, Belgium. University Partners: Morocco (UEMF, UMI), Ethiopia (JU, HU), Benin (UP, UAC), Luxembourg (UL, LNS) and associate partner IDEWE, Belgium	Co-funded by the European Union (Erasmus+) 785.840 Euro	2023-2026
CARDit: Shift work and risk of cardiovascular disease and breast cancer, a 10-year follow-up study based on daily work hour recordings	To explore the relationship between shift work and cardiovascular disease and breast cancer, the importance of duration and intensity of work time patterns and potentially vulnerable groups of workers.	Follow-up study of 340.000 regional employers 2007-2020. Daily data about work time from Danish Working Hour Database, outcome data from the National Patient Register. Rate ratios are estimated in Poisson models adjusted for a series of covariates.	AUH (Jesper Vestergaard, Annett Dalbøge, Henrik Kolstad)	Finnish Institute of Occupational Health. NFA. KU: Dept.of Public Health.The Danish Cancer Society. AUH: Dept. of Plastic and Breast Surgery. Bispebjerg Hospital: Dept.of Occupational and Environmental Medicine	AMFF 2.820.000	2019-2025
Development of a Questionnaire for Measuring Musculoskeletal Health Climate	Develop and validate a theoretically and empirically well-founded multidimensional questionnaire that measures companies' climate related to musculoskeletal disorders.	Interviews and questionnaires.	RHG (Kent Nielsen, Dorte Raaby Andersen, Sarah Holm Junge Jensen)	Hospitalsenhed Midt	AMFF 999.240	2024-2025

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
Dietary Nitrate: Friend or Foe?	Confirm our results from nationwide register-based cohort studies on nitrate exposure and cancer in the Danish Diet Cancer and Health Cohort	Epidemiology, GIS.	AU (Jörg Schullehner)	Kræftens Bekæmpelse	"World Cancer Research Fund, DFF 2.200.000	2020-2026
Digital harassment – How do we prevent digital harassment in the workplace?	To investigate digital harassment in both private and public workplaces. It will develop and evaluate guidelines for preventing digital harassment, in collaboration with trade unions, management, and relevant authorities.	Questionnaire and interview.	RHG (Trine Nøhr Winding, Helene Meldgaard Pedersen, Lars Peter Andersen)	Odense University Hospital: Occupational and Environmental Medicine	AMFF 2.751.960	2023-2026
DOC*X DUST Working in dust and ischemic heart disease. A national register-based follow-up study from 1970-2020	The purpose is to investigate the risk of acute myocardial infarction and early atherosclerosis in the coronary arteries of the heart due to short- and long-term exposure to mineral dust (quartz), organic dust (endotoxin, wood dust), motor exhaust particles, and metal-containing particles.		AUH (Zara Ann Stokholm, Henrik Kolstad) AU (Vivi Schlünsen)	Bispebjerg Hospital: Dept. of Occupational and Environmental Medicine	AMFF 3.408.000	2022-2025
Environmental and occupational exposures and risk of acute myeloid leukemia and multiple myeloma	The project aims to investigate the causes of geographical variation in acute myeloid leukemia and bone marrow cancer, which show unexpected 'hot spots' in Denmark. It will examine the impact of PFAS in drinking water, radon background radiation, and occupational exposure.	Register study.	Aalborg UH (Lise Dueholm Bertelsen, Jakob Bønløkke)	Aalborg UH (Dept. of Haematology)	Sygeforsikringen "danmark"	2023-2026

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
Environmental exposures and risk of hematologic cancers	The project aims to investigate environmental factors that may increase the risk of developing Acute Myeloid Leukemia (AML), the most common type of blood cancer in adults. Despite its prevalence, little is known about the causes of AML. The study will focus particularly on PFAS, a group of human-made chemicals that affect everyone to varying degrees.	Register Study.	Aalborg UH (Mette Hyllegaard Madsen, Jakob Bønløkke)		Sygeforsikringen "danmark"	2024-2026
EnzymA - safe Work with Enzymes, Allergies, and Asthma	The main objective is to investigate exposure-response relationships for enzymes in the work environment, enzyme allergies, and asthma, as a basis for health-based exposure limits.	Analyses of 800 enzyme measurements from 550 employees in the feed industry and agriculture for enzyme allergy and asthma. Long-term exposure is estimated using 15-year-old dust samples and work histories. Exposure-response relationships will be assessed using logistic regression, adjusted for smoking and other factors. A registry study will examine asthma in feed industry and agricultural workers over 40 years. Meta-regression combines these results with published data to inform health-based exposure limits for enzyme work.	AUH (Zara Ann Stokholm, Karoline Kærgaard Hansen) AU (Vivi Schlünsen, Torben Sigsgaard)	AUH: Dept. of Respiratory Diseases and Allergy. Grindsted Hospital, AU: Engineering Sciences, SEGES, IFF, IPA	AMFF. Karen Elise Jensens Fond 4.654.495	2023-2027
EPHOR: Exposome project for health and	This EU project seeks to explore the relationship be-	EPHOR applies existing data from cohorts with occupational information in combination	AU (Anne Mette Würtz, Theresa Kynde, Kirsten	18 European partners. The coordinating centre is TNO from Holland.	Horizon 2020. SCi-BHC-2018-2020 8.600.000	2020- 2025

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
occupational research.	tween all work related exposures (working life exposome) and chronic diseases. DRC is partner in more work packages, the most important being WP6 (Working life exposome, lung function and COPD), WP2 (Assessment of multiple exposures in large populations), and WP5 (EPHOR mega cohort).	with the collection of new data of both exposure and outcome focusing on night work (WP7) and respiratory disease (WP6). JEMs are central in EPHOR, including the development of a EuroJEM.	Østergaard, Christine Cramer, Vibeke Gutzke, Torben Sigsgaard, Vivi Schlünssen) AUH (Henrik Kolstad, Alexander Gorny)			
How can mental health be improved among managers and employees in manufacturing companies?		Intervention study. Questionnaire, interview.	RHG (Trine Nøhr Winding, Dorte Raaby, Kent Nielsen, Lars Peter Andersen, Sarah Holm Junge Jensen, Helene Meldgaard Pedersen)	Sheffield, AaU/LEAD	Velliv Foreningen 5.746.078	2023-2026
IDUM: Inflammatory diseases - does place of upbringing matter? A nationwide register-based follow-up study	The project aims to investigate place of upbringing as related to inflammatory diseases including gene-environment interactions.	Based on Danish nationwide registers, the study population comprises the whole Danish population. For a sub-study focusing on gene-environment interactions, the Danish Blood Donor Cohort is applied. Data comes from the CPR register, DNPR, NPR, CHR, etc. Data will be analyzed using various designs and statistical methods e.g. conditional logistic regression, cox regression models, GIS.	AU (Louise Lindholdt, Vivi Schlünssen, Torben Sigsgaard, Jörg Schullehner)	AU: Department of Environmental Science. AUH: Department of Clinical Immunology, Aarhus University Hospital (DBDS)	Independent Research Fund Denmark 2.830.670	2022-2026

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
Importance of psychosocial stressors and social inequality in adolescence and early adulthood for the risk of developing prediabetes (PD) and type 2 diabetes (T2D)	1) To examine the relationship between psychosocial stress in adolescence and early adulthood and the risk of PD and T2D. 2) To examine the importance of loneliness and stigmatisation for weight in adolescence and early adulthood. 3) To identify psychosocial risk factors in adolescence and early adulthood as predictors of PD and T2D.	All sub-studies in this ph.d.-project use data from the Vestliv cohort, including data from a new collection round in 2021. Register data will also be applied. Information of the participants' PD or T2D status is collected via blood tests, measuring the HbA1c level etc.	RHG (Vivi Just-Nørregaard, Trine Nøhr Winding, Johan Hviid Andersen)	AU: Dept.of Psychology and Behavioural Sciences.eno Diabetes Center Aarhus	Dept of Clinical Medicine, AU 1.800.000	2020-2025
Incidence of malignant mesothelioma in Denmark	Study the epidemiology of malignant mesothelioma in Denmark focusing on changes with time, gender and geography	Registry data of all registered mesotheliomas from 1970 to 2024.	Aalborg UH (Jakob Bønløkke, Else Würtz, Heidi Sgaard Christensen)			2025-2026
Inflamm@work: Work life, inflammation, and prevention of cardiovascular diseases – a nordic biobank study	The project aims to investigate the link between common workplace exposures, inflammation, and cardiovascular diseases. This knowledge is essential for establishing health-based exposure limits and effective prevention strategies.	The study includes 6.044 participants from 8 studies on dust, shift work, psychosocial stress, and noise conducted between 1992-2020. Data on workplace exposures, inflammation markers from blood samples, and cardiovascular disease incidence from health registers will be analyzed. Exposure history will be mapped using the DOC*X database and job-exposure matrices. Lifestyle, air pollution, and traffic noise data will also be considered. Exposure-response relationships will be examined using statistical and machine learning methods.	AUH (Zara Stockholm, Andrés Calderon, Karoline Kærgaard Hansen, Henrik Kolstad) AU (Vivi Schlünsen, Torben Sigsgaard) RHG (Johan Hviid Andersen, Marianne Kyndi) Aalborg UH (Jakob Bønløkke)	AUH (Dept. Of Clinical Biochemistry). RHG: Cardiac research clinic, West. NFA. Lund University, Sweden	AMFF 4.454.358	2024-2026

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
Integrated accident prevention in practice	Test an initiative for preventing workplace accidents in small iron and metal companies.	Interviews, audits, questionnaires, observation.	RHG (Kent Nielsen, Lars Peter Andersen)	Avidenz	AMFF 2.497.324	2022-2025
INTERCAMBIO	To explore mental and physical health in workplaces affected by the green transition. As part of the HORIZON EUROPE program, INTERCAMBIO seeks to address climate change, support the UN's Sustainable Development Goals, and enhance the EU's competitiveness and growth.	Laboratory measurements, sensors, questionnaires.	AUH (Alexander Gorny, Hani Sheik Mohamed, Zara Stokholm, Karoline Kærgaard Hansen, Kirsten Pugdahl, Henrik Kolstad) AU (Vivi Schlünsen)	ERASMUS MC, Rotterdam, NL. The Capital Region of Denmark, DK. Karolinska Institute, S. Lund University, S. KU Leuven, B. Hogskolan Halmstad, S. TNO, NL; Nova University, Lisbon, P; IISPV, Reus, E; ISGLOBAL, Barcelona, E (coordinator).	Horizon Europe 5.850.000	2024-2028
Investigating changes in self-perceived health in individuals with MCS when moving to specially MCS-friendly housing.	Interdisciplinary research project focusing on collecting qualitative and quantitative knowledge from persons with diverse chemical hypersensitivity before and after moving into new allergy-friendly housing.	The qualitative study comprises interviews with app. 7 of the persons wishing to move into the new housing. The quantitative study comprises a questionnaire regarding symptoms and self-reported health sent to all occupants and repeated after 6, 12 og 24 months.	Aalborg UH (Jakob Bønløkke)	Boligforeningen Ringgaarden	Realdania	2023-2027
LowAs: Health effects of long-term low-level drinking water arsenic exposure	Estimate Arsenic exposure from drinking water in Denmark and various health effects.	Register-based cohort studies, pilot study among private well users, GIS.	AU (Jörg Schullehner, Thoranna Gilbertsdottir, Torben Sigsgaard)	AU: NCRR, Geosciences, GEUS, US National Cancer Institute, US Geological Survey, Karolinska	DFF 3.000.000	2024-2026
MARCHES: Methodologies for Assessing the Real Costs to Health of Environmental Stressors	Estimate the societal costs of air and drinking water pollution.	Systematic Reviews.	AU (Jörg Schullehner, Torben Sigsgaard, Hani Mohamed)	AU ENVS, Umeå Universitet, ISGlobal Barcelona + various other EU partners	EU Horizon AU total: 12.000.000 (shared with ENVIS)	2023-2026

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
Measuring precarious work among young Danish employees.	The overall aim is to develop and validate a Danish questionnaire to measure precarious work among young employees in the Danish labour market. The aim is also 1) to explore the organisational work environment and the mental health of precarious workers, and 2) to identify psychological and social risk factors in adolescence and early adulthood for precarious work among young employees.	Method: Literature search, Operationalisation and adaptation of the term precarious work via theoretical discussions with sociologists and the labour market parties, Formulation of questions and answer scales based on above and available validated measuring tools, a Pilot test of a new measurement tool, Distribution of a questionnaire in the existing cohort study VestLiv year 1983+1989. Examine the reliability and validity of the developed questionnaire.	RHG (Per Høgh Poulsen, Johan Hviid Andersen, Trine Nøhr Winding, Karin Biering)	AAU: Dept.of Sociology and Social Work (Rasmus Juul Møbjerg)	Velliv Foreningen 2.385.136	2021-2024
Mechanical exposures at work and the risk of developing severe lower back disorders.	The aim of the project is to strengthen the prevention of severe lower back disorders resulting from mechanical exposures at work by generating new knowledge about causal relationships and prognosis.	Register-based epidemiology.	RHG (Mathias Moselund Rønnow, Johan Hviid Andersen, David Høyrup Christiansen)		AMFF 2.200.000	2022-2025
Mentalization training for leaders	The aim of the project is to develop, test, and evaluate a leadership training program for multiple management levels in small and medium-sized enterprises, where leaders enhance their relational skills through mentalization training.	Questionnaire, interview.	RHG (Lars Peter Andersen, Sarah Holm Junge Jensen, Trine Nøhr Winding)	Aalborg University: Department of Communication and Psychology	Velliv Foreningen 4.916.508,16 (1.068.560)	2024-2026

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
Monitoring of PFAS in young Danes of re-productive age	The aim of the project is to determine PFAS levels in the blood of a representative sample of young Danes.	A representative sample of young individuals aged 18-28 years will be selected ensuring geographic and demographic diversity. Blood samples from the participants will be analysed for the most prevalent PFAS compounds.	Aalborg UH (Mette Hyllegaard Madsen, Jakob Bøn-løkke)	Holbæk Hospital, Bispebjerg Hospital, Syddansk Universitet, Gødstrup Hospital	SST	2024-2026
Parkinson map of Denmark	Map incidence and prevalence of Parkinson's Disease in Denmark.	Register-based epidemiology, GIS.	AU (Jörg Schullehner)	Gødstrup Hospital	Parkinsonforeningen 70.000	2024-2025
PRO-MENTA: Consequences of organisational changes for productivity and mental health.	The project aims to examine the consequence of major organisational changes for employee sickness absence and mental health and workplace productivity and staff turnover to identify risk factors for negative consequences.	A cohort study based on all employees at Aarhus University Hospital in the period 2013-2020. The persons are embedded in their departments and the departments are set equal at an index month 0 defined by moving time. The cohort is followed-up in regional and national registers from 2 years before and 2 years after the move. The exposure is divided into move, move+division, and move+merging.	AUH (Morten Vejs Willert, Lea Nør-gaard Sørensen) RHG (Marianne Kyndi)	AU: Dept.of Psychology and Behavioural Sciences. Bispebjerg Hospital: Dept.of Occupational and Environmental Medicine.	Velliv Foreningen 2.120.134	2021-2024
PROTECT: Groundwater Protection in a Changing Landscape	How to secure healthy drinking water in an agricultural landscape, calculating health-related co-benefits for mitigation measures of nitrogen use.	Register-based epidemiology, GIS, health economics.	AU (Jörg Schullehner)	GEUS, KU, SDU, Miljøstyrelsen, Central Denmark Region, Samsø Municipality, SkyTEM Aps	Innovation Fund Denmark 557.000	2025-2029
Reduction of slip and fall accidents through industry-specific footwear and surfaces.	To reduce the occurrence of fall accidents by investigating and mapping the mechanisms that are relevant and optimal	Laboratory measurements, sensors, questionnaires.	RHG (Kent Nielsen)	Aalborg University: Department of Health Science and Technology	AMFF 2.193.127 (76.800)	2023-2025

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
	for ensuring the best slip resistance in different work environments across industries, such as distribution, pharmaceutical, food, and oil industries.					
Relational Violence Prevention - a controlled intervention study for the prevention of students' outwardly aggressive behavior in primary school	To strengthen the well-being of teachers and educators in their working lives by reducing students' outwardly aggressive behavior through relational violence prevention.	Questionnaire, interview, video recording, observation.	RHG (Lars Peter Andersen, Anna Helene Meldgaard Pedersen, Sarah Holm Junge Jensen, Trine Nøhr Winding)	Eduk, University College Copenhagen	AMFF 4.342.291 (2.419.740)	2024-2027
RHINE: Risk factors for asthma in adults	RHINE aims to analyse risk factors for respiratory disease and allergy.	Cohort study based on questionnaires and clinical evaluations.	AU (Vivi Schlünsen, Torben Sigsgaard, Signe Timm, Kathrine Pape Madsen)	Nordic Multicentre study, 7 centres.	Træstøvsfonden 460.000	2010-2026
RHINESSA: Trans-generational study of asthma, allergy and inflammatory bowel disease	RHINESSA aims to analyse risk factors for respiratory disease and allergy in generations.	Cohort study based on questionnaires and clinical evaluations.	AU (Vivi Schlünsen, Torben Sigsgaard, Signe Timm, Kathrine Pape Madsen)	International multicentre study, 12 centres.	AU Træstøvsfonden 2.000.000	2013-2026
Safe Handling of Acrylate-Containing Nail and Eyelash Products in the Beauty and Skincare Industry	The main purpose of the project is to identify the insufficient level of knowledge regarding occupational health and safety challenges in the beauty and skincare industry.		RHG (Caroline Lindholm Pedersen, Marianne Kyndi)		AMFF	2025-2028

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
SAFE-FIT: Safe use of respirators – evaluation of fit testing	The project aims to assess whether employees correctly fit respiratory protection and if fit testing improves fit over time. It will also explore user and company perspectives on fit testing.	PortaCount measurements of workers in different industries.	AUH (Sorosh Taba, Alexander Gorny, Zara Stokholm, Mette Lausten, Henrik Kolstad) Aalborg UH (Jakob Bønløkke) RHG (Signe Boudigaard, Marianne Kyndi)		AMFF 2.040.000	2024-2026
SERMAB: Styrene Exposure and Risk of Malignant Blood diseases	To examine if exposure to styrene, a versatile plastic, increases the risk of malignant blood diseases in humans.	Follow-up study of 100.000 persons, who since 1947 have worked in 762 fibreglass companies in Finland, Italy, Great Britain, USA and Denmark. Malignant blood diseases are identified in national registers of causes of death and cancer registers. Exposure levels are determined using an industry-specific quantitative JEM.	AUH (Mette Wulf Christensen, Henrik Kolstad) AU (Vivi Schlünssen)	AUH, Haematology, Finnish Cancer Registry, San Martino Teaching Hospital, Liguria Mesothelioma Registry, Emilia-Romagna University Hospital, Turin MRC, Life Course Epidemiology Unit Southampton, IOM, NIOSH, IsGloba, University of Nebraska, IARC, STAMI.	Karen Elise Jensens Fond 2.500.000	2021-2026
SPRINT: Sustainable plant protection products and their effects on ecosystems, plants, animals and humans	SPRINT aims at exploring pesticides (plant protection products) in humans, animals, plants and ecosystems in 11 European countries and Argentina.	Among conventional and ecological farms, neighbours and closely living families, we will examine the pesticides levels. Based on these results we will develop a tool to evaluate the pros and cons of pesticide use in the EU.	AU (Anne Vested, Kirsten Østergaard, Vibeke Heitmann Gutzke, Torben Sigsgaard, Vivi Schlünssen)	21 European partners. The coordinating centre is Wageningen University in Holland.	Horizon 2020. H2020-SFS-2018-2020. 1.567.000	2020-2025

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
Stop for Stress randomized controlled study of online stress treatment	- a The project aims to: 1) Compare the effect of the online program Stop for Stress with the existing face-to-face program MARS. 2) Identify markers for treatment outcomes across demographic, work, and health factors to guide individuals to the most suitable program.	In a randomized controlled design, the effect of online and face-to-face stress treatment is studied. The 220 participants, referred to occupational medicine clinics in Aarhus and Gødstrup, are randomly assigned to either Stop for Stress or MARS, with follow-ups at 3, 6, and 12 months. Effectiveness is measured through questionnaires, supplemented with register data on sick leave and healthcare services.	AUH (Lea Nørgaard Sørensen, Zara Ann Stokholm, Gitte Laue Petersen, Ane Marie Thulstrup)	AU: Dept. of Psychology and Behavioural Sciences; University of New South Wales: Black Dog Institute	AMFF. Helsefonden. 2.526.339	2024-2027
Stress and mental health problems from adolescence to young adulthood	The overall purpose of this project is to reduce stress and mental health problems among adolescents and young adults. This is done by monitoring the development of stress, mental health problems and mental diseases in adolescence and young adulthood and to provide knowledge for preventive efforts targeting adolescents.	This project will be part of the ongoing VestLiv; a youth cohort with a unique possibility to study stress and mental health in adolescence and the transition into adult life due to the longitudinal design. Moreover, we will obtain register information on place of birth, socioeconomic status, education, work, and health from Statistics Denmark.	RHG (Karin Biering, Christine Leonhard Birk Sørensen, Pernille Bach Steen)	AU: Department of Psychology and Behavioural Sciences, AUH Psychosis Research Unit, AU Clinical Epidemiology	Sygeforsikringen "danmark", KV fonden. 5.584.640	2022-2025
Systematic evaluation of working conditions and organisation of individual work - a model to decrease sick leave during pregnancy	The project aims to start and evaluate an intervention focusing on work organisation for pregnant employees at AUH via tripartite dialogue, and thus possibly reduce the sickness absence.	The intervention is conducted in a cluster randomised design with the participation of departments at AUH. Half of the departments receive the intervention while the other half follows usual procedures. The primary effect of the intervention is measured by the number of	AUH (Jane Bjerregaard Lauridsen, Rikke Damkjær Maimburg, Mette Lausten Hansen, Ane Marie Thulstrup) RHG (Dorte Raaby Andersen).	DEFACTUM. AUH: Dept.of Obstetrics and Gynaecology.	Sundhedsstyrelsen, AMFF, RM Folkesundhed i Midten, Jordemoderforeningen 6.064.175	2019-2024

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
The impact of psychosocial stress factors and social inequality on the risk of prediabetes or type 2 diabetes later in life	1) To examine the relationship between psychosocial stress in adolescence and early adulthood and the risk of PD and T2D. 2) To examine the importance of loneliness and stigmatisation for weight in adolescence and early adulthood. 3) To identify psychosocial risk factors in adolescence and early adulthood as predictors of PD and T2D.	days with sickness absence in the intervention and control groups.  All sub-studies in this ph.d.-project use data from the Vestliv cohort, including data from a new collection round in 2021. Register data will also be applied. Information of the participants' PD or T2D status is collected via blood tests, measuring the HbA1c level etc.	RHG (Vivi Just-Nørregaard, Trine Nøhr Winding, Johan Hviid Andersen)	AU: Department of Psychology and Behavioural Sciences. Steno Diabetes Center Aarhus.	Department of Clinical Medicine, AU 1.800.000	2020-2025
"Trods alt - på arbejdet med et smil". Workplace protection of employees against stress reactions and high emotional demands	1) To identify workplace protective factors for reducing the relation between emotional demands and mental health problems. 2) To explore how workplaces with high emotional demands effectively at the individual, group, and workplace level prevent mental health problems 3) To develop and validate guidelines for prevention of mental health problems in occupations with high emotional demands.	Three rounds of questionnaires in professions with high work demands. Qualitative interviews at selected workplaces with successful preventive strategies.	RHG (Lars Peter Andersen, Dorte Raaby Andersen)	Odense University Hospital: Occupational and Environmental Medicine.	AMFF 2.132.000	2020-2025
Violence in psychiatric departments in the Region of Southern Denmark	A study of short- and long-term stress and trauma reactions following severe violence and threat incidents in psychiatric workplaces and protecting effect of social support at the workplace.	Weekly electronic surveys track psychiatric employees. Questions expand if incidents or mental health symptoms are reported. Selected employees undergo interviews.	RHG (Lars Peter Andersen, Karin Biering)	Odense University Hospital: Occupational and Environmental Medicine.	AMFF. Region Syd-danmark 3.564.363	2020-2024

Title	Aim	Materials and Methods	Internal partners	External collaboration partners	Funding	Time period
Vocational schools as bridge-builders to safe work for young apprentices and students	To expand a pilot-tested apprenticeship program, integrating a vocational school approach in manufacturing, agriculture, and construction, and assessing its impact on youth safety.	Questionnaire and interview.	RHG (Kent Nielsen)	NFA, DPU	AMFF 3.548.690 (958.920)	2022-2027
Work-related Osteoarthritis: Better understanding, prevention, and prognosis	To reduce work-related osteoarthritis and support patients' workforce participation by 1) Mapping osteoarthritis prevalence and job-related strain in Denmark. 2) Identifying work-related risk factors and threshold exposure levels. 3) Examining employment outcomes and risk factors for poor prognosis.	Registry data on the total working population and 900 technical measurements	AUH (Alexander Jahn, Annett Dalbøge) RHG (Johan Hviid Andersen)	AUH (Section for Rheumatology). RHG (Orthopaedic Surgery). NFA. Université d'Angers, France, Washington University School of Medicine, USA.	AMFF. Gigtforeningen. 4.256.527	2024-2027

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### Books / book chapters

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### Reports

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