

Andreas Lodberg

MD, PhD

Assistant Professor | Head of the Bioassay Laboratory

PROFILE

I am 38 years old and lead the Bioassay Laboratory at Aarhus University Hospital, where I develop platform technologies that translate molecular endocrinology into clinical applications. My work spans diagnostic bioassays, activin receptor biology, and therapeutic delivery, including a glucocorticoid bioassay now in clinical trials, activin-pathway modulation in muscle and bone disease, and PlasmPort, a platform for cytosolic delivery of nucleic acids and biologics

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MAIN FUNDING

DKK 45M

RESEARCH OUTPUT

14 publications | *h*-index 9 | 6 first/last

EDUCATION

- ▶ **2025 Introductory Residency in Endocrinology**
Aarhus University Hospital, Denmark
- ▶ **2021 PhD**
Department of Biomedicine, Aarhus University, Denmark
- ▶ **2016 MD**
Danish Medical Authorization (A), Aarhus University, Denmark

Teaching, Mentorship & Service

- ▶ **Teaching**
 - Gross anatomy at Department of Biomedicine, Aarhus University.
 - 322 contact hours across histology, anatomy, and biochemistry
- ▶ **Mentorship**
 - Supervised 3 PhD fellows and 8 research year students
- ▶ **Service**
 - Early Career Research Board, Bone Reports

APPOINTMENTS & EXPERIENCE

- ▶ **2025-PRESENT Assistant Professor, Head of the Bioassay Laboratory**
Departments of Biomedicine & Clinical Medicine
Aarhus University / Aarhus University Hospital, Denmark
- ▶ **2021-2025 Postdoctoral Fellow, Structural Biology**
Department of Biomedicine, Aarhus University, Denmark
- ▶ **2018-2020 Clinical Appointments**
Psychiatry and Pulmonary Medicine, Aarhus University Hospital
General Practice, Brabrand, Denmark
Danish Medical Authorization (B)
- ▶ **2016 Erasmus Medical Center, PhD Fellowship Exchange 5 months**
Rotterdam, the Netherlands

CORE EXPERTISE

- ▶ Bioassay establishment and validation
- ▶ Growth factor biology
- ▶ Innovation and intellectual property strategy
- ▶ IND development
- ▶ Preclinical models of bone and muscle loss
- ▶ Protein expression and purification

FUNDING & PARTNERSHIPS

- ▶ **2025 - Selected awards**
 - NNF Pioneer Innovator (DKK 1.1M, main)
 - Novo Nordisk ValidationNN (0.373M, main)
 - AU Launch (0.250M, main)
 - BII BioStudio (DKK 25M, co)
 - NNF Collaborative (DKK 6.4M, co)
 - NNF Distinguished Innovator (DKK 6.8M, co)
- ▶ **2020 to 2023 - Selected awards**
 - Lundbeck Experiment (DKK 2M, main)
 - NNF Pioneer Innovator (DKK 1M, main)
 - BII Proof-of-Concept (DKK 1M, main)
 - Keros Therapeutics Collaboration (DKK 1.8M, main)

RESEARCH & INNOVATION

- ▶ **Innovation and Venture Creation**
 - Co-founded Enter Therapeutics, a BioInnovation Institute spinout established in 2025
 - One patent in national phase and three patents in preparation
- ▶ **Activin Biology**
 - Advanced activin receptor biology and demonstrated the anabolic potential of pathway modulation to increase bone accrual and muscle mass
 - Principal investigator for the preclinical characterization of Keros Therapeutics’ clinical-stage asset KER-065
- ▶ **Steroid Diagnostics**
 - Developed a serum bioassay for free and bioactive glucocorticoids, now undergoing clinical evaluation and laboratory implementation
- ▶ **Intracellular Delivery**
 - Invented PlasmPort, a cytosolic delivery platform for nucleic acids and biologics now advancing toward IND-enabling studies at Enter Therapeutics
- ▶ **Scientific and Strategic Advisory**
 - Advise global pharmaceutical companies, biotechnology companies, and investment firms on TGF-β biology and strategy, including Novo Nordisk, Merck, and Morgan Stanley

SELECTED PUBLICATIONS

- ▶ **Bromer FD et al. (2025)**
The Effect of Anti-Activin Receptor Type IIA and Type IIB Antibody on Muscle, Bone and Blood in Healthy and Osteosarcopenic Mice
Journal of Cachexia, Sarcopenia, and Muscle
- ▶ **Poulsen MF et al. (2024)**
Highly Responsive Bioassay for Quantification of Glucocorticoids
Analytical Chemistry
- ▶ **Lodberg A. (2021)**
Principles of the Activin Receptor Signaling Pathway and its Inhibition
Cytokine and Growth Factor Reviews