

## Curriculum vitae

### Personal information

Name and age: Rikke Kruse Sørensen  
E-mail: rkruse@health.sdu.dk

### Current position

01.08.19 – 31.07.22: Post doc, Steno Diabetes Center Odense, University of Southern Denmark (SDU) and Odense University Hospital (OUH). Mentor: Professor Kurt Højlund

### Previous positions

01.01.19 - 30.06.19: Research Assistant, Section of Molecular Diabetes and Metabolism, Endocrine Elite Research Unit, Department of Endocrinology, Odense University Hospital (OUH).

Maternity leave: September 12th 2018 – June 30th 2019

01.01.17 - 31.12.17: Post doc, Section of Molecular Diabetes and Metabolism, Endocrine Elite Research Unit, SDU  
Mentor: Professor Kurt Højlund

01.01.16 - 31.12.16: Research Assistant, Section of Molecular Diabetes and Metabolism, Endocrine Elite Research Unit, Department of Endocrinology, OUH. Mentor: Professor Kurt Højlund

01.01.12 - 17.12.15: PhD student, Section of Molecular Diabetes and Metabolism, Endocrine Elite Research Unit, SDU and OUH. Thesis title: "Autophagy in skeletal muscle of obesity and type 2 diabetes". Supervisor: Professor Kurt Højlund.  
Maternity leave: January 7th 2015 – October 26th 2015

### Education

Nov. 2011: MSc. in Biochemistry and Molecular Biology, SDU, Denmark

June 2009: BSc. in Biomedicine, SDU, Denmark

### Academic visits at foreign research institutions

02.01.14 – 28.03.14 Research assistant, Mayo Clinic, Phoenix, Arizona. Mentor: Associate professor Paul R. Langlais and Professor Lawrence Mandarino

### Teaching

2009-2021: BSc and MSc classes in biochemistry, enzyme kinetics, and physiology for Biomedicine, Biochemistry and Molecular Biology, Medicine, and Engineering (Health Informatic and Technology). I have been involved in both lectures, classroom teaching, and exams.

2021: External teacher in physiology at the nursing education, UCL Lillebælt, Odense, Denmark

### Supervision

Since 2017, I have been the daily supervisor of most pre-graduate students in our laboratory, including the day-to-day planning of their experimental work. In this period, we have had four biomedicine master students (60 ECTS points each) and two biomedicine students doing an elective research project (30 ECTS points each)

### Conference contributions – lectures or posters

2017: Oral presentation, 52nd Annual meeting of the Scandinavian Society for the Study of Diabetes (SSSD), Nyborg, Denmark

2017: Poster presentation, International Symposium on Insulin Receptor and Insulin Action, Nice, France

2016: Poster presentation, 76th annual meeting in the American Diabetes Association (ADA), New Orleans, LA

2015: Abstract accepted for oral presentation at the 75th annual meeting in the ADA, Boston, MA

2015: Oral presentation at the annual meeting in The Danish Endocrine Society, Odense, Denmark

2014: Oral presentation, The Annual Open Research Day 2014 in Region of Southern Denmark, Fredericia, Denmark

2013: Poster presentation, 2nd Annual meeting in the Nordic Autophagy Network, Middelfart, Denmark

2013: Poster, including audio guided poster tour, 73rd annual meeting in the ADA, Chicago, IL, USA

2012: Oral presentation, 1st Annual Annual meeting in the Nordic Autophagy Network, Oslo, Norway

### Presentations to a non-scientific audience

2017: Presentation on T2D and exercise for high school teachers in the project "Science in Southern Denmark", which is a collaboration between a group of partners from the educational system in the Region of Southern Denmark and the Danish Diabetes Academy. The project aims to strengthen the awareness and increase the number of applicants for science education in Southern Denmark

2017: As part of the project "Science in Southern Denmark", I visited "Haderslev Katedralskole" in November and gave a talk to 75 high school students about type 2 diabetes and exercise as well as my own career path and how I ended up doing research

2017: Presentation on type 2 diabetes and exercise for teachers at the Danish nursing schools

2012: Lecture on white and brown adipose tissue (Title: "Brunt og hvidt er ikke et fédt") at "Folkeuniversitet", Odense, Denmark

2012: Article entitled "Brunt og hvidt er ikke et fédt" published in the Danish science journal "Aktuel Naturvidenskab"

Organization of conferences, chairman, administrative tasks etc..

2021: Organizer of the 3rd Danish Muscle Network Workshop. The meeting was organized in collaboration with the Danish Diabetes Academy  
2019: Chairman on a session at the 4th August Krogh Symposium.: Rising Stars in Physiology  
2013 -2014: Organizer of the "Health PhD Club", an organization for PhD students at the Faculty of Health Sciences at SDU  
2013: In the organizing committee of the 2nd annual meeting in the Nordic Autophagy Network, Hindsgavl castle, Middelfart, Denmark  
2013-2014: PhD student representative in the Department Council, Department of Clinical Research, SDU  
2012- 2014: PhD student representative In the steering committee of the Nordic Autophagy Network

Publication list (Number of first author publications: 8, H-index: 7)

1. Kruse R, Petersson SJ, Christensen LL, Kristensen JM, Sabaratnam R, Ørtenblad N, Andersen M, Højlund K. Effect of long-term testosterone therapy on molecular regulators of skeletal muscle mass and fibre-type distribution in aging men with subnormal testosterone. *Metabolism*, 2020 Aug; 112: 154347
2. Kruse R, Sahebkhiani N, Højlund, K. The mitochondrial proteomic signatures of human skeletal muscle linked to insulin resistance. *Int J Mol Sci*, 29020 Jul; 21(15):5374
3. Sylov L, Vind BF, Kruse R, Møller PM, Wojtaszewski JFP, Richter EA, Højlund K. Circulating follistatin and activin A and their regulation by insulin in obesity and type 2 diabetes. *J Clin Endocrinol Metab*, 2020 May; 105(5): dgaa090
4. Kruse R, Højlund K. Proteomic study of skeletal muscle in obesity and type 2 diabetes: progress and potential. *Expert Rev Proteomics*. 2018 Oct;15(10):817-828
5. Kruse R, Vienberg SG, Vind BF, Andersen B, Højlund K. Effects of insulin and exercise training on FGF21, its receptors and target genes in obesity and type 2 diabetes. *Diabetologia*, 2017 Oct;60(10): 2042-2051
6. Kruse R, Krantz J, Barker N, Coletta R, Rafikov R, Luo M, Højlund K, Mandarino LJ, Langlais PR. Characterization of the CLASP2 Protein Interaction Network Identifies SOGA1 as a Microtubule-Associated Protein. *Mol Cell Proteomics*. 2017 Oct;16(10): 1718-1735
7. Kruse R, Pedersen AJT, Kristensen JM, Petersson SJ, Wojtaszewski JFP, Højlund K. Intact initiation of autophagy and mitochondrial fission by acute exercise in skeletal muscle of patients with Type 2 diabetes. *Clin Sci*. 2017 Jan 1; 131(1): 37-47
8. Kruse R, Højlund K. Mitochondrial phosphoproteomics of mammalian tissues. *Mitochondrion*. 2016 Aug 10. pii: S1567-7249(16)30140-4
9. Kruse R, Vind BF, Petersson SJ, Kristensen JM, Højlund K. Markers of autophagy are adapted to hyperglycaemia in skeletal muscle in type 2 diabetes. *Diabetologia*. 2015 Sep;58(9):2087-95
10. Petersson JP, Frederiksen L, Kristensen JM, Kruse R, Andersen M, Højlund K. Effects of testosterone on markers of mitochondrial oxidative phosphorylation and lipid metabolism in muscle of aging men with subnormal bioavailable testosterone. *Eur J Endocrinol*. 2014 Jul;171(1):77-88
11. Mosbech M, Kruse R, Harvald EB, Olsen ASB, Gallego SF, Hannibal-Bach HK, Ejsing CS, Færgeman NJ. Functional Loss of Two Ceramide Synthases Elicits Autophagy-Dependent Lifespan Extension in *C. elegans*. *PLoS ONE* 2013 Jul 19;8(7): e70087