Jasper M.A. de Jong, PhD
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SUMMARY

- Biomedical scientist with 12+ years of experience in comparative physiology
- Author of 13 publications in peer-reviewed journals including 4 first-author papers
- Collaborator on interdisciplinary projects with international teams of scientists

EDUCATION

Stockholm University, Dept. of Molecular Biosciences (MBW), Sweden
- **PhD** in Physiology | graduated May 2017

Utrecht University, Faculty of Science, The Netherlands
- **MSc** in Cancer Genomics & Developmental Biology | **2011**
- **BSc** in Biomedical Sciences | **2008**

WORK EXPERIENCE

Yale University School of Medicine, USA, Dept. of Comparative Medicine **2017-2022**
Postdoctoral Fellow, Lab of Dr. Matthew Rodeheffer
- Investigated the effects of dietary fats on the regulation of food intake, the gut microbiome, tissue lipidomics and energy metabolism in mice.
- Performed different types of surgeries and a wide variety of drug administration and sample collection methods on live mice.
- Used analytical assays including confocal microscopy, qPCR, Western blot and ELISA. Applied bioinformatics tools in R for data analysis.

Stockholm University, Sweden, Dept. of Molecular Biosciences **2012 – 2017**
Doctoral student, Lab of Professors Barbara Cannon and Jan Nedergaard
- Studied the effects of external stimuli on the function and development of various human and mouse adipose tissues using in vivo and in vitro models.
- Developed (primary) adipocyte differentiation protocols. Studied cell and gene function using siRNA methods, RNA-sequencing, qPCR, Western blot and fluorescence microscopy.

Harvard University, USA, Dept. of Stem Cell and Regenerative Biology **2010**
Research intern, Lab of Dr. Chad Cowan
- Investigated adipocyte development from human induced pluripotent stem cells.
- Developed a cell culture protocol for mouse primary brown adipocytes.

SKILLS

Certified:
- Data Analyst Professional with R (Datacamp)
- Radiation Hygiene Expert level 5b (Utrecht University, the Netherlands)
- FELASA C certificate Laboratory Animal Sciences (Karolinska Institute, Sweden)
- Safe Microbiology Techniques (Utrecht University, the Netherlands)

Laboratory: Experienced (10+ years) with in vivo mouse experiments (stereotactic surgeries, all routes of injection, blood and tissue sample collection) and cell culture methods (primary and cell line).

	Analytical techniques including RNA-seq, qPCR, Western blot, ELISA, (confocal) microscopy.
Data analysis:	Experienced in analyzing and visualizing (including dashboards) large data sets with R, Excel and GraphPad Prism. Familiar with SQL and Tableau.
Communication:	Co-authored 13 peer-reviewed scientific papers. Wrote my own successful fellowship application and contributed to grant writing throughout PhD and postdoc. Experienced in writing ethical applications for mouse experimental procedures. Presented my work at various conferences as both oral and poster presentations.
Teamwork:	Collaborated with people of over 15 different nationalities in teams within and between laboratories.
Project management:	Managed my own scientific projects from hypothesis generation to publication.
Teaching:	Supervised over 10 students at different levels (bachelor to PhD) during their project work. Taught laboratory practical classes to bachelor and master students.
Languages:	Dutch and English (both fluent), Swedish (conversational)

AWARDS

2019-2022: Swedish Research Council International Postdoctoral Fellowship (equivalent to €290.000). Title: The dietary composition of fatty acids - how does it affect feeding behavior? Three-year personal fellowship to do postdoctoral training abroad.

SELECTED PUBLICATIONS (out of 13; see my ORCID profile for a complete list)

de Jong JMA, Sun W, Pires ND, Frontini A, Balaz M, Jespersen NZ, Feizi A, Petrovic K, Fischer AW, Bokhari MH, Niemi T, Nuutila P, Cinti S, Nielsen S, Scheele C, Virtanen K, Cannon B, Nedergaard J, Wolfrum C, Petrovic N. Human brown adipose tissue is phenocopied by classical brown adipose tissue in physiologically humanized mice. *Nat Metab*. 2019 Aug;1(8):830-843.

de Jong JMA, Cannon B, Nedergaard J. Promotion of lipid storage rather than of thermogenic competence by fetal versus newborn calf serum in primary cultures of brown adipocytes. *Adipocyte*. 2018 Jul 16:1-14.

de Jong JMA, Wouters RTF, Boulet N, Cannon B, Nedergaard J, Petrovic N. The β_3-adrenergic receptor is dispensable for browning of adipose tissues. *Am J Physiol Endocrinol Metab*. 2017 Jun 1; 312(6):E508-E518.