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## Kort præsentation

Omdrejningspunktet for mine forskningsinteresser er neurodegenerative- og neuroudviklings sygdomme. I min gruppe implementerer vi inducerede pluripotente celler (iPSC) fra mennesker og dyr for at forstå sygdomsmekanismer, der fører til neurodegenerative og neuroudviklings sygdomme.

Forskningen i humane iPSC-modeller for neurodegenerative sygdomme omfatter Alzheimers sygdom (AD), Frontotemporal demens (FTD) og glaukom. Desuden arbejder vi med iPSC fra hunde for at forstå fællestræk og forskelle mellem menneskelig AD og hundens kognitive tilbagegang kaldet kognitiv dysfunktions syndrom (KDS) eller hunde demens.

Vores forskning i neuroudviklings sygdomme er fokuseret på at implementere humane iPSC-modeller for epilepsi og skizofreni.

Dernæst arbejder vi udover med hunde-iPSC også med svine- og abe-iPSC. Formålet med at etablere disse in vitro iPSC-modeller og ved at kombinere disse med organoide modeller, er at erstatte og raffinere behovet for in vivo-dyremodeller.

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## Ansættelse

### Professor

Sektion, Pathobiological Sciences  
Københavns Universitet  
Frederiksberg C  
20 maj 2016 → nu

### Assistant Project Scientist

University of California at Irvine  
Irvine, USA  
1 jan. 2009 → 31 dec. 2011

### Postdoctoral Fellow

University of California at Irvine  
Irvine, USA  
15 feb. 2006 → 31 dec. 2008

### Visiting Guest Researcher

Lunds University  
Sverige  
26 dec. 1011 → 24 maj 1012

## Publikationer

### Generation of two patient specific GABRD variants and their isogenic controls for modeling epilepsy

Kamand, M., Taleb, R., Wathikhinnakon, Methi, Mohamed, Fadumo Abdullahi, Ghanzanfari, S. P., Konstantinov, D., Hald, Jonas Laugård, Holst, B., Andersen, C. B., Møller, R. S., Lemke, J. R., Krey, I., Freude, Kristine & Chandrasekaran, Abinaya, 1 apr. 2024, I: Stem Cell Research. 76

### APOE4 IS INSTRUMENTAL IN AUGMENTING RHOA KINASE PHOSPHORYLATION AND CONTRIBUTES THEREBY TO CLASSICAL ALZHEIMER'S DISEASE NEURON PHENOTYPES

Freude, Kristine, Dittlau, Katarina Stoklund & Tao, Ruixin, 5 mar. 2024.

### **Astrocytes: The Stars in Neurodegeneration?**

Dittlau, Katarina Stoklund & Freude, Kristine, 28 feb. 2024, I: Biomolecules.

### **Implications of SNP-triggered miRNA dysregulation in Schizophrenia development**

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### **Complexity of Sex Differences and Their Impact on Alzheimer's Disease**

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### **3D-organization and spatial localization of chromatin and epigenetic marks in relation to nucleolar activity in porcine oocytes**

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### **APOE4 affects basal and NMDAR mediated protein synthesis in neurons by perturbing calcium homeostasis**

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### **Astrocytic reactivity triggered by defective autophagy and metabolic failure causes neurotoxicity in frontotemporal dementia type 3**

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### **Implications of Glycosylation in Alzheimer's Disease**

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**Microglia-Secreted Factors Enhance Dopaminergic Differentiation of Tissue- and iPSC-Derived Human Neural Stem Cells**  
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De Figueiredo Pessôa, L. V., Chandrasekaran, Abinaya, Thomsen, B. B., Berendt, Mette, Hyttel, P. & Freude, Kristine, 2020, *iPSCs from Diverse Species*. Academic Press, s. 77-91 15 s.

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**Mutation in FTD3 CHMP2B causes impaired autophagy and distorted energy metabolism cumulating in reactive astrocyte phenotypes**

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**Mutations in FTD3 CHMP2B causes impaired autophagy and distorted energy metabolism cumulating in reactive astrocyte phenotypes**

Chandrasekaran, A., Dittlau, K. S., Corsi, G., Doncheva, N. T., Haukedal, H., Ramakrishna, S., Ambardar, S., Salcedo, C., Schmidt, S. I., Cirera, S., Pihl, M., Schmid, B., Nielsen, T. T., Nielsen, J., Kolko, M., Kobolak, J., Dinnyes, A., Hyttel, P., Palakodeti, D., Gorodkin, J. & 4 flere, Muddashetty, R., Meyer, M., Aldana, Blanca & Freude, Kristine, 2020.

**Patient iPSC-Derived Neurons for Disease Modeling of Familial Alzheimer's Disease with Mutations in Presenilin 1**

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## **Aktiviteter**

### **Deciphering the sex specific neuroinflammatory component in Alzheimer's disease**

Freude, Kristine (Andet)

4 apr. 2024

### **Trønderbrain Research Seminar 2024**

Freude, Kristine (Deltager)

4 apr. 2024 → 5 apr. 2024

### **DEVELOPNOID Annual meeting 19th to 20th of March 2024**

Freude, Kristine (Deltager) & Mohamed, Fadumo Abdullahi (Deltager)

19 mar. 2024 → 20 mar. 2024

### **Gene editing**

Freude, Kristine (Andet)

19 mar. 2024

### **(AD/PD 2024) INTERNATIONAL CONFERENCE ON ALZHEIMER'S AND PARKINSON'S DISEASES AND RELATED NEUROLOGICAL DISORDERS**

Freude, Kristine (Deltager) & Tao, Ruixin (Deltager)

5 mar. 2024 → 9 mar. 2024

### **Neuroimmunology Research Society Denmark (NIRS-DK) Conference 2024**

Freude, Kristine (Deltager)

4 mar. 2024

### **iPSC Models to Decipher Glia Mediated Inflammatory Responses in Neurodegenerative Diseases**

Freude, Kristine (Andet)

4 mar. 2024

### **Biology of Aging and lifestyle**

Jensen, Lars Jørn (Deltager) & Freude, Kristine (Deltager)

31 mar. 2022

### **Induced pluripotent stem cell models for neurodegenerative diseases**

Freude, Kristine (Andet)

31 mar. 2022

## **Priser**

### **Alzheimer Forskningsfonden Forskerpris**

Freude, Kristine (Modtager), 2020

## **Presse/medie**

**Kort Sagt: "The hope and the hype of stem cells" - by Kristine Freude**

Kristine Freude

10/03/2016

1 Mediebidrag

**Medicin mod demens: Ingen ved, om kvinder får gavn af det**

Kristine Freude

01/06/2023

1 Mediebidrag

**Minihjerner af stamceller skal løse Alzheimergåden**

Kristine Freude & Henriette Haukedal

23/10/2020

1 Mediebidrag

**Musene med to fædre**

Kristine Freude

09/03/2023

1 Mediebidrag