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Short presentation

My research interests are centered on neurodegenerative and neurodevelopmental diseases. In my group we are implementing induced pluripotent cells (iPSC) from humans and animals to understand disease mechanisms leading to neurodegenerative and neurodevelopmental diseases.

The research on human iPSC models for neurodegenerative diseases encompasses Alzheimer's disease (AD), Frontotemporal dementia (FTD) and Glaucoma. Furthermore, we are working with canine iPSC to understand commonalities and divergences between human AD and canine cognitive dysfunction (CCD) also known as dog dementia. Our research on neurodevelopmental disorders is focused on implementing human iPSC models for epilepsy and schizophrenia.

Additionally, besides the canine iPSC, we are working with porcine and monkey iPSC. The establishment of these in vitro iPSC models is aimed in combination with organoid models at replacing and refining the need for in vivo animal models. Current funding sources:

Danish Research Council (FNU); Novo Nordisk Foundation; Lundbeck Foundation, Velux Foundation, Hørslev Foundation

Employment

Professor

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Frederiksberg C

20 May 2016 → nu

Assistant Project Scientist

University of California at Irvine

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Postdoctoral Fellow

University of California at Irvine

Irvine, United States

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Visiting Guest Researcher

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26 Dec 1011 → 24 May 1012

Research outputs

Inflammatory Responses and Sex Differences of Patient Derived Cell Models of Microglia in Alzheimer's Disease
Haukedal, H., Thomassen, F., Kadlecová, Marion & Freude, Kristine, 20 May 2024.

Distinct calcium sources regulate temporal profiles of NMDAR and mGluR mediated protein synthesis
Ramakrishna, S., Radhakrishna, B., Kaladiyil, A., Shah, N., Basavaraju, N., Freude, Kristine, Kommaddi, R. & Muddashetty, R., 15 May 2024, In: Life Science Alliance. 7, 8

Novel traceable CRISPR-Cas9 engineered human embryonic stem cell line (E1C3+hSEAP+2xKO+pCD47), has potential to evade immune detection in pigs

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

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

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Astrocytes: The Stars in Neurodegeneration?

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Generation of three isogenic gene-edited Huntington's disease human embryonic stem cell lines with DOX-inducible *NGN2* expression cassette in the *AAVS1* safe locus

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The G213D variant in Nav1.5 alters sodium current and causes an arrhythmogenic phenotype resulting in a multifocal ectopic Purkinje-related premature contraction phenotype in human-induced pluripotent stem cell-derived cardiomyocytes
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Mutations in FTD3 CHMP2B causes impaired autophagy and distorted energy metabolism cumulating in reactive astrocyte phenotypes

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Activities

Inflammatory Responses and Sex Differences of Patient Derived Cell Models of Microglia in Alzheimer's Disease
Freude, Kristine (Other)
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Microglia specific sex differences and their impact in Alzheimer's disease
Freude, Kristine (Other)
8 May 2024

Application of CRISPR/Cas9 in modelling neurodegenerative diseases
Freude, Kristine (Other)
2 May 2024

Deciphering the sex specific neuroinflammatory component in Alzheimer's disease
Freude, Kristine (Other)
30 Apr 2024

SUND Neuroscience Event
Freude, Kristine (Participant)
30 Apr 2024

Deciphering the sex specific neuroinflammatory component in Alzheimer's disease
Freude, Kristine (Other)
4 Apr 2024

Trønderbrain Research Seminar 2024
Freude, Kristine (Participant)
4 Apr 2024 → 5 Apr 2024

DEVELOPNOID Annual meeting 19th to 20th of March 2024
Freude, Kristine (Participant) & Mohamed, Fadumo Abdullahi (Participant)
19 Mar 2024 → 20 Mar 2024

Gene editing
Freude, Kristine (Other)
19 Mar 2024

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

Freude, Kristine (Participant) & Tao, Ruixin (Participant)
5 Mar 2024 → 9 Mar 2024

Neuroimmunology Research Society Denmark (NIRS-DK) Conference 2024

Freude, Kristine (Participant)
4 Mar 2024

iPSC Models to Decipher Glia Mediated Inflammatory Responses in Neurodegenerative Diseases

Freude, Kristine (Other)
4 Mar 2024

Biology of Aging and lifestyle

Jensen, Lars Jørn (Participant) & Freude, Kristine (Participant)
31 Mar 2022

Induced pluripotent stem cell models for neurodegenerative diseases

Freude, Kristine (Other)
31 Mar 2022

Prizes

Alzheimer Forskningsfonden Forskerpris

Freude, Kristine (Recipient), 2020

Press/Media

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

Kristine Freude
10/03/2016
1 Media contribution

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

Kristine Freude
01/06/2023
1 Media contribution

Minihjerner af stamceller skal løse Alzheimergåden

Kristine Freude & Henriette Haukedal
23/10/2020
1 Media contribution

Musene med to fædre

Kristine Freude
09/03/2023
1 Media contribution