

Press release

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Basic information

Name: Annemarie Svane Aavild Poulsen Email: am@biomed.au.dk Phone:

Department of: Biomedicine

Main supervisor: O.Andersen/C. Vægter

Title of dissertation: Toward understanding Alzheimer's disease: An investigation of the regulation of SORL1

Date for defence: 9/7-2021 at (time of day): 16:00 Place: Virtual PhD defense

Press release (Danish)

Undersøgelse af SORL1 regulering

I et nyt ph.d.-projekt fra Aarhus Universitet, Health, undersøges reguleringen af genet SORL1, der er kendt for at være associeret til Alzheimers sygdom (AD).

SORL1 koder for proteinet SorLA, hvis ekspresion, af forskere er blevet foreslået til at beskytte mod AD. Det er derfor interessant at undersøge hvordan ekspresionen af SorLA kontrolleres, således vi bedre kan forstå, hvordan en alternativ regulering af genet kan medføre sygdom som AD i hjernen.

I ph.d.-projektet blev reguleringen af SORL1 studeret ved at undersøge alternativ splejsning samt hvordan to transskriptions-faktorer, der hver især er vigtige for hjernens og øjets udvikling, kunne influere reguleringen/ekspresionen af SORL1/SorLA.

Resultaterne viser at SORL1 bør anses for at være et vigtigt gen under både hjernens samt øjets udvikling, der tyder på, at SorLA også har en vigtig funktion i øjet foruden proteinets anerkendte funktion i hjernen.

Ph.d.-projektet er gennemført af Annemarie Svane Aavild Poulsen, der forsvare det d. 9/7-21

Forsvaret af ph.d.- projektet er offentligt og afholdes som virtuelt forsvar via Zoom (Meeting ID: 611 7341 4879), den 9/7 kl. 16:00. Titlen på projektet er "Toward understanding Alzheimer's disease: An investigation of the regulation of SORL1". Yderligere oplysninger: Ph.d.-studerende Annemarie Svane Aavild Poulsen, e-mail: am@biomed.au.dk

Bedømmelsesudvalg:

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Press release (English)
Investigation of SORL1 regulation

In a new PhD project from Aarhus University, Health, regulation of the Alzheimer's disease (AD) associated gene SORL1 is investigated.

SORL1 encodes the protein SorLA, of which the expression has been suggested by researchers to protect against AD. It is therefore interesting to investigate how the expression of SorLA is controlled so that we can better understand how an alternative regulation of the gene can cause disease such as AD in the brain.

In the PhD project, the regulation of SORL1 was studied by investigating alternative splicing and how two transcription factors, each of which is important for brain and eye development, could affect the regulation/expression of SORL1/SorLA.

Results show, SORL1 should be regarded as an important gene during both brain and eye development, suggesting that SorLA has also an important function in the eye, in addition to its recognized function in the brain.

The project was carried out by Annemarie Svane Aavild Poulsen, who is defending her dissertation on 9/7-21.

The defence is public and held as a virtual defense via Zoom (Meeting ID: 611 7341 4879), on 9/7 at 16:00. The title of the project is "Toward understanding Alzheimer's disease: An investigation of the regulation of SORL1". For more information, please contact PhD student Annemarie Svane Aavild Poulsen, email: am@biomed.au.dk

Assessment committee:

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