

Indsendt dato 2015-05-08

Ansøgning R203-2015-675

Navn Walden Bjørn-Yoshimoto
Stilling Adjunkt

Institution Københavns Universitet
Institut Institut for Lægemiddeldesign og Farmakologi
Afdeling

Budget subtotaler og total

Post	År 1	I alt
Transportudgifter	0,00 kr.	<u>0,00 kr.</u>
Dagpenge	0,00 kr.	<u>0,00 kr.</u>
Gebyrer	0,00 kr.	<u>0,00 kr.</u>
Hoteludgifter	10.500,00 kr.	<u>10.500,00 kr.</u>
I alt	10.500,00 kr.	10.500,00 kr.

Projekt titel

Pharmacology of the Excitatory Amino Acid Transporters

Resume af ansøgningen

Glutamat er den primære excitatoriske neurotransmitter i hjernen. Udover at være helt central i de fleste basale hjernefunktioner er forstyrrelser i glutamat systemet i hjernen også koblet til forskellige sygdomme og patologiske tilstande, som f.eks. iskæmi og amyotrofisk lateral sklerose. En vigtig regulator af glutamat som neurotransmitter er en familie af proteiner kaldet "excitatoriske aminosyre transportører" (EAAT), eller blot glutamat transportører. Deres funktion er, b.l.a. at fjerne glutamat efter det er blevet frigivet, hvilket gør den pågældende synapse klar til næste glutamat-signal. Glutamat systemet har en iboende potentiel fordel og potentiel ulempe i forhold til farmakologisk manipulering. Glutamat som neurotransmitter er overalt i hjernen, og har indflydelse på nærmest alle, både native og patologiske processer. Dermed kan modulering af glutamat systemet potentielt være et mål for behandling af utrolig mange forskellige neurologiske lidelser. Men på den anden side er der stor risiko for bivirkninger. Dette kan man måske komme udenom ved at have mere selektive modulatorer

af systemet. Derfor er mit projekt målrettet efter at prøve at forstå hvordan glutamat systemet fungerer igennem funktionen af EAAT'er. En bedre forståelse af mekanismerne vil kunne afdække nye mål for farmakologisk manipulation, hvad enten det bliver direkte modulering af glutamat systemet, eller mål, som vi finder der arbejder sammen med dette. I løbet af mit projekt arbejder jeg på dette ud fra tre indgangsvinkler: Dels prøver jeg at finde nye farmakologiske redskabstoffer, der kan hjælpe os med at differentiere de forskellige typer af EAAT'er, og deres respektive effekter under forskellige omstændigheder. Dels prøver jeg at udlede mere om hvordan EAAT molekylært bevæger sig når den transporterer. Til sidst kigger jeg på funktionen af en af EAAT'erne, som nedregulerer sin funktion når bestemte hjerneceller bliver udsat for amfetamin.

Projekt start dato

Projekt slut dato

Arrangementets navn

Brain Transporters: From Genes and Genetic Disorders to Function and Drug Discovery + International Society for Neurochemistry (hovedmøde)

Personlig information

Fornavn	Walden
Efternavn	Bjørn-Yoshimoto
Email	waldenb@gmail.com
Fødselsdato	1983-06-27
Adresse	Rødvig Alle 27
Postnr	2650
By	Hvidovre
Land	Danmark
Telefon	+45 24494408
Akademisk grad	Ph.D.
Stilling	Adjunkt
Institution	Københavns Universitet

Projektet**Projekt titel**

Pharmacology of the Excitatory Amino Acid Transporters

Arrangementets navn

Brain Transporters: From Genes and Genetic Disorders to Function and Drug Discovery + International Society for Neurochemistry (hovedmøde)

Destination

Queensland, Australien

Arrangementets startdato

20. august 2015

Arrangementets slutdato

27. marts 2015

Beskrivelse

Dette er International Society for Neurochemistry's store conference, samt et satellit-møde. Satellit mødet er "Brain Transporters: From Genes and Genetic Disorders to Function and Drug Discovery", og er yderst relevant for mit projekt.

Jeg arbejder som sagt med "excitatory amino acid transporters" (glutamat transportører), og har under mit bachelor og speciale projekt arbejdet med dopamin transportøren. P.t. er jeg på NIH, i Susan Amara's laboratorie, hvor jeg arbejder med både dopamin- og glutamat transportører. Både Susan Amara, og min gamle vejleder, Professor Ulrik Gether er talere ved satellit mødet. Samt selvfølgelig mange andre store navne indenfor mit felt.

Hovedaktivitet

Tilmeldt videnskabeligt indlæg

Invitation

Bekræftelse

Email modtaget (screenshot vedhæftet, jeg har slettet noget af mailen da den overskred de 2000 tilladte tegn):

Dear Walden Bjørn-Yoshimoto,
Your abstract 10446 (MTU07-36) has been selected for a Poster Presentation at the 25th ISN-APSN Joint Biennial Meeting in conjunction with ANS, 23 - 27 AUGUST 2015, Cairns, Australia.

The abstract code of your poster abstract is MTU07-36. Please note that the poster boards will be marked accordingly at the conference.

Your abstract is scheduled for Poster Session MTU07 "Synaptic Transmission ", on Monday, August 24 and Tuesday, August 25 2015.

See detailed schedule below.

YOUR ABSTRACT DETAILS

MTU07-36

MOLECULAR DETERMINANTS IN TWO LOOPS OF THE GLUTAMATE
TRANSPORTER 1 INVOLVED IN TRANSPORTER REORGANIZATION

Walden Bjørn-Yoshimoto, Lennart Bunch, Anders A Jensen

IMPORTANT: If you CANNOT give this poster presentation, please send an email to secretariat@neurochemistry.org as soon as possible.

ABSTRACT REVIEW

Should you wish to review and, if necessary, correct your abstract please use the links below.

[Review your abstract](#) | [Change your abstract](#)

POSTER INSTRUCTIONS

Your poster should be displayed on the poster board with the abstract code you have just received with this email. The abstract codes can also be found in the program book.

All posters will stay up for 2 days

MTU-coded posters will stay up on Monday 24th and Tuesday 25th

WTH-coded posters will stay up on Wednesday 26th and Thursday 27th

Please prepare your poster on one sheet of Bristol board or laminated paper. Alternatively, presenters may display their material on several smaller sheets.

The dimensions of the poster should not exceed 100 cm wide x 112 cm high. Allocate the top of the poster for the title and authors as stated on the submitted abstract.

The text, illustrations, etc should be bold enough to be read from a distance of two meters (six feet).

Tacks and technical equipment will be available for the mounting of posters.

Vedrører rejsen et forskningsprojekt støttet af Lundbeckfonden?

Nej, men konferencen, ISN Brain in flux er støttet/sponsoreret af Lundbeck

CV

Work experience and education:

- 2013 – PhD Student at the University of Copenhagen, Department of Drug Design and Pharmacology
- 2012 – 2013 Research Scientist at Evolva biotech
- 2011 – 2011 Research Assistant at Evolva biotech
- 2007 – 2010 MSc in Biochemistry from the University of Copenhagen.
- 2004 – 2007 BSc in Biochemistry from the University of Copenhagen.

Publication and patent list:

- 2015: Anders A. Jensen et al., "Excitatory amino acid transporters: Recent insights into molecular mechanisms, novel modes of modulation and new therapeutic possibilities" Current Opinion in Pharmacology, Vol. 20, page 116-123, 2015
- Submitted: Patent from Evolva biotech (Pending; NDA prohibits me from expanding on this)
- 2010: Eriksen, J. et al., "Post-endocytic sorting of constitutively internalized dopamine transporter in cell lines and dopaminergic neurons" Journal of Biological Chemistry, vol. 285, page 27289-27301, 2010.

Scientific visits

- 2015: Laboratory of Molecular and Cellular Neurobiology in the Section on Molecular and Cellular Signaling at NIMH/NIH, Bethesda, MD, USA. (Currently in progress)
- 2014: ICCB-Longwood (Harvard Medical School) / Woolf lab at Boston Children's Hospital, Boston, MA, USA.

Teaching Experience

- 2014 & 2015: Molecular Pharmacology (PhD Course, laboratory exercise)
- 2014 & 2015: Medicinal and Biostructural Chemistry (Masters course, class exercise)
- 2013: In vitro techniques in biochemistry and pharmacology (Masters course, laboratory exercise)

Voluntary work:

- 2009-2010: Member of the initiative group for LINK, alumni-association for biochemistry and molecular biomedicine at the University of Copenhagen.
- 2006-2009: Founding board member of the social events house for the hard sciences (mBAR) at the University of Copenhagen.
- 2007-2008: Student spokesman for Biochemistry at The University of Copenhagen.
- 2006-2006: Member of the staff-student committee for Biochemistry at the University of Copenhagen.
- 2005-2009: Member of the student body for Biochemistry at the University of Copenhagen.

Grants Awarded:

- 2015: Augustinus Foundation DKK 20,000 travel award for a research stay in Dr. Susan Amara's lab at NIMH/NIH, Bethesda, MD, USA.
- 2015: International Society for Neurochemistry (ISN) USD 2,450 travel award to attend the ISN conference.

Budget

År	Type	Navn	Beløb	Detaljer
1				
		Ansøgt hos Lundbeckfonden		
		Transportudgifter	0,00 kr.	
		Dagpenge	0,00 kr.	
		Gebyrer	0,00 kr.	
		Hoteludgifter	10.500,00 kr.	Indlogering under konferencen (fra natten inden til morgenen efter, da konferencen er hele dage, fra tidlig morgen til sen aften). Priser er taget fra konferencens hjemmeside (de linker til hoteller) og omregnet til DKK som beskrevet i budget.
			<u>10.500,00 kr.</u>	
		Ansøgt hos andre		
		Transportudgifter	0,00 kr.	
		Dagpenge	0,00 kr.	
		Gebyrer	0,00 kr.	
		Hoteludgifter	0,00 kr.	
			<u>0,00 kr.</u>	
		Bevilget af arbejdspladsen		
		Transportudgifter	0,00 kr.	
		Dagpenge	0,00 kr.	
		Gebyrer	0,00 kr.	
		Hoteludgifter	0,00 kr.	
			<u>0,00 kr.</u>	
		Bevilget af andre		
		Transportudgifter	12.355,00 kr.	Flybillet. Er endnu ikke bestilt, pris kan ændre sig.
		Dagpenge	3.177,00 kr.	Penge til mad, beregnet (som beskrevet i budget) ud fra "per diem" satser for udsendte fra den Amerikanske regering, fratrukket de udgifter jeg alligevel ville have til mad hvis jeg var hjemme. Omregnet til DKK som beskrevet i budget.
		Gebyrer	1.235,50 kr.	Tilmeldingsgebyr til konferencen
		Hoteludgifter	0,00 kr.	
			<u>16.767,50 kr.</u>	

10.500,00 kr.

Medansøger(e) / Mentor(er)

Navn Anders Asbjørn Jensen
 Email aaj@sund.ku.dk
 CV

Personal Data

- Birth date: August 11, 1970
- Birth place: Glostrup, Denmark
- Home address: Griffenfeldsgade 37C 3. mf. th., DK-2200 Copenhagen, Denmark

Degrees

- **1995 M.Sc. (Pharm) Thesis:** *Functional importance of two cysteines in the carboxy terminal of the D1a dopamine receptor.* The Royal Danish School of Pharmacy
- **2001 Ph.D. Thesis:** *Molecular pharmacology of family C G-protein coupled receptors.* The Royal Danish School of Pharmacy

Positions

- 1995-1997 H. Lundbeck A/S, Copenhagen, Denmark

Academic Employee, Quality Assurance / Chemical Production

- 1998-present Department of Drug Design and Pharmacology, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark

Ph.D. student (1998-2001)

Assistant Professor (2001-2006)

Associate Professor (2006-)

Scientific Visits

- 1993-1994 (12 months) Department of Molecular Pharmacology Bioscience, Novo Nordisk A/S, Denmark (*In the lab of Dr. Peter H. Andersen*)
- 1998 (6 months) Acadia Pharmaceuticals Inc. San Diego, CA, USA (*In the lab of Dr. Mark R. Brann*)
- 2003-2004 (7 months) Department of Physiology Pharmazentrum, University of Basel, Switzerland (*In the lab of Professor Bernhard Bettler*)

Awards

- 2001 Novo Nordisk Ph.D. Plus Prize.
- 2001 The Danish Academy of Natural Sciences Ph.D. Award.
- 2011 *Scientist of The Year* award, Faculty of Pharmaceutical Sciences, University of Copenhagen.

Selected Recent Grants (2011-2014)

- 2011 A Hallas-Møller Stipend (DKK 11.000.000) from The Novo Nordisk Foundation
- 2011 DKK 1.100.000 from The Lundbeck Foundation
- 2012 DKK 3.956.818 from the Danish Medical Research Council
- 2013 DKK 100.000 from the Augustinus Foundation
- 2013 DKK 100.000 from The Aase and Ejner Danielsens Foundation
- 2014 Funding of an industrial PhD student

Publications

96 publications in international peer-reviewed scientific journals or as book chapters.

2 patent applications.

Supervision/Mentoring Experience

- Current post docs: 1
- Former post docs: 1
- Current PhD students: 4 (as Principal Supervisor), 2 (as Co-Supervisor)
- Former PhD students: 6 (as Principal Supervisor), 10-15 (as Co-Supervisor)
- Master Students: >20 (approximately 10 as Principal Supervisor)

Other Select Activities

- Regular reviewer for various journals
- Co-founder and Co-CEO of the company Hugin NeuroChemicals I/S.

Publikationer

I alt 96 publikationer siden 1994, her er et par udvalgte som anlagsbegrænsningen tillader:

Abrahamsen, B., N. Schneider, M.N. Erichsen, T.H.V. Huynh, C. Fahlke, L. Bunch, and A.A. Jensen. Allosteric modulation of an excitatory amino acid transporter: The subtype-selective inhibitor UCPH-101 exerts sustained inhibition of EAAT1 through an intramonomeric site in

the trimerization domain. *J. Neurosci.* **33**:1068-1087 (2013). *AAJ corresponding author*

Hoestgaard-Jensen, K., N.O. Dalby, J. Krall, H. Hammer, P. Krogsgaard-Larsen, B. Frølund, and A.A. Jensen. Probing $\alpha_4\beta\delta$ GABA_A receptor heterogeneity: Differential regional effects of a functionally selective $\alpha_4\beta_1\delta/\alpha_4\beta_3\delta$ receptor agonist on tonic and phasic inhibition in rat brain. *J. Neurosci.* **34**:16256-16272 (2014). *AAJ corresponding author*

Jensen, A.A., Ch. Fahlke, W.E. Bjørn-Yoshimoto, and L. Bunch. Excitatory amino acid transporters: Recent insights into molecular mechanisms, novel modes of modulation and new therapeutic possibilities. *Curr. Opin. Pharmacol.* **20**:116-123 (2015). *AAJ corresponding author*

Hammer, H., B. Ebert, H.S. Jensen, and A.A. Jensen. Functional characterization of the 1,5-benzodiazepine clobazam and its major active metabolite *N*-desmethyloclobazam at human GABA_A receptors expressed in *Xenopus laevis* oocytes. *PLoS One*. **10**:e0120239 (2015). *AAJ corresponding author*

Budget for ISN konference

Hvad	Antal	Per enhed, \$	Total pris, \$	Total pris, DKK
Rejse:				
Fly fra Washington DC til Cairns:	1	1750.00	1750.00	12355.00
Transport til/fra lufthavn			75.00	874.2
Satellit konference:				
Tilmelding, studenterpris:	1	175.00	175.00	1235.50
Indlogering:	4	140.39/nat	561.55	3964.50
Måltider:	4	50 / dag	200.00	1412.00
Hoved konference:				
Indlogering:	5	187.20 / nat	936.00	6608.00
Måltider:	5	50 / dag	250.00	1765.00
Subtotal:			3947.55	27870.00
Bevilliget finansiering:			2450.00	17297.00
Manglende finansiering:			\$ 1497.55	= DKK 10572.70

Jeg har været så heldig, at jeg har fået en del af udgifterne dækket. Der vil dog være yderligere udgifter i forbindelse med konferencen, som jeg hermed ansøger om at få dækket.

Flybilletten er endnu ikke købt, og prisen er derfor baseret på sidst søgte billetter men kan ændre sig.

Jeg har estimeret en ekstraudgift på \$50 /dag for mad, da jeg bliver nødt til at spise ude, da jeg ikke har køkken til rådighed. Dette er baseret på "per diem" satser for ansatte i den Amerikanske regerings udsendte til Cairns (\$111 / dag på mad og uforudsete udgifter) fratrasket hvad jeg ca. bruger herhjemme, hvilket giver merudgifterne ved at være der.

Jeg har brugt valutakursen på dags dato (15. April 2015) til at omregne USD til DKK (1 USD = 7.06 DKK).

Linjer i blå er inkluderet i den bevilling jeg har fået, linjer i rød er hvad jeg her ansøger om støtte til.

Budget:

Detaljeret budget over estimerede udgifter i forbindelse med konferencen.

ISN 2015 abstract acceptance notification for abstract No. 10446 / MTU07-36 - Inbox

Message

Delete Reply Reply All Forward Move Ru... Unread Categorize Follow Up

ISN 2015 abstract acceptance notification for abstract No. 10446 / MTU07-36 Conferences

secretariat@neurochemistry.org

Sent: Thursday, May 7, 2015, Week 18 11:02

To: Walden Emil Bjørn-Yoshimoto

Dear Walden Bjørn-Yoshimoto,
Your abstract 10446 (MTU07-36) has been selected for a Poster Presentation at the 25th ISN-APSN Joint Biennial Meeting in conjunction with ANS, 23 - 27 AUGUST 2015, Cairns, Australia.

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- The text, illustrations, etc should be bold enough to be read from a distance of two meters (six feet).
- Tacks and technical equipment will be available for the mounting of posters.

Bekræftelse for poster præsentation:

Bekræftelsesmail for mit tilmeldte videnskabelige indlæg på konferencen. Mit abstract er blevet udvalgt til en poster præsentation.