

UWE BEFFERT, Ph.D.

Department of Biology
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EDUCATION

1999	Ph.D. with Honors in Neurological Sciences	McGill University, Montréal, Canada
1991	B.S. in Analytical Chemistry	Concordia University, Montréal, Canada

ACADEMIC POSITIONS

2009-present	Research Assistant Professor, Department of Biology, Boston University, Boston, MA Topic: Lipoprotein Receptors in Brain Development and Neurodegeneration
2006-2009	Project Team Leader, Neuroscience Drug Discovery Merck Research Laboratories, Boston, MA Topic: ApoE Program in Alzheimer's disease

RESEARCH TRAINING

1999-2006	Postdoctoral Fellow with Dr. Joachim Herz Department of Molecular Genetics University of Texas Southwestern Medical Center at Dallas, TX Topic: Molecular Basis of ApoER2 in Synaptic Transmission
1991-1998	Ph.D. Student with Dr. Judes Poirier Department of Pathology McGill University, Montréal, Canada Topic: Role of ApoE Isoforms in Alzheimer's Disease

AWARDS/HONORS

2015-2019	Harold and Margaret Southerland Alzheimer's Research Fund – Boston University
2001-2002	Canadian Institutes of Health Research Fellowship
1999-2001	Human Frontier Science Program Long-Term Fellowship
1999-2001	Fonds pour la Formation de Chercheurs et l'Aide à la Recherche Fellowship (Québec)
1999	Ph.D. with Honors
1995-1997	Fonds pour la Formation de Chercheurs et l'Aide à la Recherche Studentship (Québec)
1994-1995	Alzheimer Society of Montréal Studentship

GRANT SUPPORT - ACTIVE

2018-2023 "Role of apoE-apoER2 interactions in CNS neurons"
NIH/NIA R01 AG059762-01
Scored: 17% and funded from first submission
Beffert, U. – Principal Investigator, Ho A. – Co-Principal Investigator
Total costs = \$2,368,055

GRANT SUPPORT - COMPLETED

2015-2017 "Role of FOXR1 in Mammalian Brain Development"
NIH/NIGLI R21 – GM114629-01
Funded from first submission
Ho A – Principal Investigator, **Beffert, U.** – Co-Principal Investigator
Total costs = \$441,990

2013-2015 "Role of CLASP2 in Neurodevelopment"
NIH/NIMH R21 MH100581-01A1
Scored: 8%, funded from second submission
Ho, A. – Principal Investigator, **Beffert, U.** – Co-Principal Investigator
Total costs = \$450,175

2001-2003 Canadian Institutes of Health Research Fellowship
Beffert, U. – Principal Investigator, \$37,000 total costs

1999-2001 Human Frontier Science Program Long-Term Fellowship
Beffert, U. – Principal Investigator, \$80,000 total costs

1999-2001 Fonds pour la Formation de Chercheurs et l'Aide à la Recherche Fellowship –
Québec **Beffert, U.** – Principal Investigator, \$50,000 total costs

1995-1997 Fonds pour la Formation de Chercheurs et l'Aide à la Recherche Studentship-Québec
Beffert, U. – Principal Investigator, \$36,000 total costs

1994-1995 The Alzheimer Society of Montréal Studentship
Beffert, U. – Principal Investigator, \$10,000 total costs

PUBLICATIONS: RESEARCH ARTICLES

Citations indices:	All	Since 2015
Citations	4958	1127
h-index	29	20
i10-index	32	24

<https://scholar.google.com/citations?user=5ykJHZcAAAJ&hl=en&oi=ao>

Independent Publications as Research Assistant Professor at Boston University 2009-present

In Preparation

- A. A. Mota, S. Niu, C. Cheng, **U. Beffert***, A. Ho* FOXR1 functions as a stress sensor regulating stress-responsive genes. *In preparation for **Molecular Cell**, anticipated submission Summer 2020*
(* Corresponding authors)
- B. C. Gallo, A. Ho*, **U. Beffert*** ApoER2 transcript mapping reveals disrupted isoform balance in Alzheimer's disease *In preparation for **PNAS**, anticipated submission Summer 2020*
(* Corresponding authors)
- C. K. Omuro, A. Ho*, **U. Beffert*** Alternative splice variants of apoER2 regulates synaptic plasticity *In preparation for **Neuron**, anticipated submission Fall 2020* (* Corresponding authors)

Completed Publications

1. A.Y. Lin, S. Henry, C. Reissner, C. Neupert, M. Missler, **U. Beffert**, A. Ho. (2019) A rare autism-associated MINT2/APBA2 mutation disrupts neurexin trafficking and synaptic function. **Scientific Reports** 9(1):6024
2. G.M. Dillon, W.A. Tyler, K.C. Omuro, J. Kambouris, C. Tyminski, S. Henry, T.F. Haydar, **U. Beffert***, A. Ho* (2017) CLASP2 links reelin to the cytoskeleton during neocortical development. **Neuron**, 93(6):1344-1358. (* Corresponding authors)
3. C.R. Wasser, I. Masiulis, M.S. Durakoglugil, C. Lane-Donovan, X. Xian, **U. Beffert**, A. Agarwala, R.E. Hammer, J. Herz. (2014) Differential splicing and glycosylation of Apoer2 alters synaptic plasticity and fear learning. **Science Signaling** 7:ra113.
4. **U. Beffert***, G. Dillon, J.M. Sullivan, J.P. Gilbert, C. Stuart, A. Ho* (2012) Microtubule plus-end tracking protein CLASP2 regulates neuronal polarity and synaptic function. **Journal of Neuroscience** 32(40):13906-13916. (* Corresponding authors)

Publications while at Merck 2006-2009

5. M. Larouche, **U. Beffert**, J. Herz, and R. Hawkes. (2008) The reelin receptors apoer2 and vldlr coordinate the patterning of Purkinje cell topography in the developing mouse cerebellum. **PLoS ONE**. 27;3(2):e1653.
6. A.L. Akopians A.H. Babayan, **U. Beffert**, J. Herz, A.I. Basbaum, and P.E. Phelps. (2008) Contribution of the Reelin signaling pathways to nociceptive processing. **European Journal of Neuroscience** 27(3): 523-37.
7. G. Zhang, A.H. Assadi, R.S. McNeil, **U. Beffert**, A. Wynshaw-Boris, J. Herz, G.D. Clark, and G. D'Arcangelo. (2007) The Pafah1b complex interacts with the Reelin receptor VLDLR. **PLoS ONE** 2(2): e252.

Publications as a Postdoctoral Fellow 1999-2006

8. **U. Beffert**, F. Nematollah Farsian, I. Masiulis, R.E., Hammer, S.O. Yoon, K.M. Giehl, and J. Herz. (2006) ApoE receptor 2 controls neuronal survival in the adult brain. ***Current Biology*** 16(24): 2446-2452.
 - **Featured as research highlight in *Nature Reviews Neuroscience* 8, 83 (Feb. 2007).** This study demonstrated the importance of the apoER2 in neuronal survival. More importantly, we used a number of genetic mutant mice to demonstrate that alternatively spliced variants of the receptor were responsible for mediating this effect, and that neuronal survival was independent of defects in neuronal migration.
9. **U. Beffert**, A. Durudas, E.J. Weeber, P. Stolt, K.M. Giehl, J.D. Sweatt, R.E. Hammer, and J. Herz. (2006) Functional dissection of Reelin signaling by site-directed disruption of Disabled-1 adaptor binding to Apolipoprotein E receptor 2: Distinct roles in development and synaptic plasticity. ***Journal of Neuroscience*** 26(7): 2041-2052.
 - In this study, we used genetically modified mice to demonstrate distinct signaling pathways through various parts of the apoER2 receptor. Most importantly, we could recapitulate neuronal migration defects by disrupting the interaction with a single adaptor protein, Disabled-1, and uncovered that Reelin signaling required more than just the apoER2-Dab1 interaction.
10. H.S. Hoe, D. Wessner, **U. Beffert**, A.G. Becker, Y. Matsuoka, G.W. Rebeck. (2005) F-spondin interaction with the apoE receptor ApoER2 affects processing of APP. ***Molecular and Cellular Biology*** 25(21): 9259-9268.
11. Y. Chen, **U. Beffert**, M. Ertunc, T.-S. Tang, E.T. Kavalali, I. Bezprozvanny, and J. Herz. (2005) Reelin modulates NMDA receptor activity in cortical neurons. ***Journal of Neuroscience*** 25(36): 8209-8216.
 - **Featured as research highlight in *Nature Reviews Neuroscience* 6, 826 (Nov 2005).** This work draws together several lines of evidence to support a modulatory role for Reelin in long-term synaptic plasticity in adulthood through its effects on NMDAR gating. Moreover, the results indicate that the same Reelin-activated developmental signaling pathway that supports neuronal migration is central to its role in learning and memory.
12. **U. Beffert**, E.J. Weeber, A. Durudas, S. Qiu, I. Masiulis, J.D. Sweatt, W.P. Li, G. Adelman, M. Frotscher, R.E. Hammer, and J. Herz. (2005) Modulation of synaptic plasticity and memory by Reelin involves differential splicing of the lipoprotein receptor Apoer2. ***Neuron*** 47(4): 567-579.
 - **Featured commentary in the same issue of *Neuron* and also as research highlight in *Nature Reviews Neuroscience*.** In this study, we used genetically modified knock-in mice to demonstrate the importance of the alternative splice variants of the apoE receptor Apoer2 in signaling and behavioral learning paradigms. We further showed that alternative splicing can be modulated by activity and that Apoer2 is a synaptic protein that directly associates with the NMDA receptor. Cited >183 times.
13. C. Petit-Turcotte, N. Aumont, **U. Beffert**, D. Dea, J. Herz, and J. Poirier. (2005) The apoE receptor apoER2 is involved in the maintenance of efficient synaptic plasticity. ***Neurobiology of Aging***. 26(2):195-206.

14. P. May, A. Rohlmann, H.H. Bock, K. Zurhove, J.D. Marth, E.D. Schomburg, J.L. Noebels, **U. Beffert**, J.D. Sweatt, E.J. Weeber, and J. Herz. (2004) Neuronal LRP1 functionally associates with postsynaptic proteins and is required for normal motor function in mice. ***Molecular and Cellular Biology*** 24(20):8872-83.
15. G. Morfini, G. Szebenyi, H. Brown, H.C. Pant, G. Pigino, S. DeBoer, **U. Beffert**, and S.T. Brady. (2004) A novel CDK5-dependent pathway for regulating GSK3 activity and kinesin-driven motility in neurons. ***EMBO Journal*** 23(11):2235-45.
16. **U. Beffert**, E. Weeber, G. Morfini, J. Ko, S.T. Brady, L.-H. Tsai, J.D. Sweatt, and J. Herz. (2004) Reelin and Cdk5-dependent signals cooperate in regulating neuronal migration and synaptic transmission. ***Journal of Neuroscience*** 24(8):1897-906.
17. A.H. Assadi, G. Zhang, **U. Beffert**, R.S. McNeil, A.L. Renfro, S. Niu, C.C. Quattrocchi, B.A. Anatalffy, M. Sheldon, D.D. Armstrong, A. Wynshaw-Boris, J. Herz, G. D'Arcangelo, G.D. Clark. (2003) Interaction of Reelin signaling and Lis1 in brain development. ***Nature Genetics*** 35(3):270-276. Cited >132 times.
 - **Excellent example of collaboration between groups**, as my work discovered the mouse phenotype demonstrating a clear synergistic relationship between Reelin and Lis1 in neuronal migration and development of lissencephaly, while the Clark lab provided biochemistry and direct binding studies.
18. **U. Beffert**, G. Morfini, H.H. Bock, H. Reyna, S.T. Brady, and J. Herz. (2002) Reelin-mediated signaling locally regulates protein kinase B/Akt and glycogen synthase kinase 3 β . ***Journal of Biological Chemistry*** 277(51):49958-64.
 - First paper to establish the Reelin signaling network through ApoER2 and Vldlr receptors and the adaptor protein Dab1. We made use of several genetic mutant mice lacking the Reelin receptors apoER2 and Vldlr or the adaptor protein Dab1 to clearly establish the activation of various kinases following Reelin stimulation, leading ultimately to phosphorylation changes in the cytoskeletal protein tau. Cited >142 times.
19. E.J. Weeber, **U. Beffert**, C. Jones, J.M. Christian, E. Forster, J.D. Sweatt, and J. Herz. (2002) Reelin and ApoE receptors cooperate to enhance hippocampal synaptic plasticity and learning. ***Journal of Biological Chemistry*** 277(42):39944-39952.
 - First paper to establish behavioral changes in learning associated with electrophysiological changes due to Reelin signaling. Using genetically modified mice, we demonstrated that Reelin can enhance synaptic plasticity, and that this enhancement is dependent on the apoER2 and Vldlr receptors. Cited >256 times.

Publications as Graduate Student

20. C. Petit-Turcotte, S.M. Stohl, **U. Beffert**, J.S. Cohn, N. Aumont, M. Tremblay, D. Dea, L. Yang, J. Poirier, N.S. Shachter. (2001) Apolipoprotein C-I expression in the brain in Alzheimer's disease. ***Neurobiology of Disease*** 8(6):953-963.
21. C. Ramassamy, D. Averill, **U. Beffert**, L. Theroux, S. Lussier-Cacan, J. S. Cohn, Y. Christen, A. Schoofs, J. Davignon, and J. Poirier. (2000) Oxidative insults are associated with apolipoprotein E genotype in Alzheimer's disease brain. ***Neurobiology of Disease*** 7:23-37.
22. **U. Beffert**, J. S. Cohn, C. Petit-Turcotte, M. Tremblay, N. Aumont, C. Ramassamy, J. Davignon, and J. Poirier. (1999) Apolipoprotein E and β -amyloid levels in the hippocampus and frontal cortex

of Alzheimer's disease subjects are disease-related and apolipoprotein E genotype dependent. ***Brain Research*** 843(1/2):87-94. Cited >75 times.

- Large study that established the relationship between decreased levels of apoE and increased amyloid proteins in human brain tissue. It took over ten years to realize using mouse models that less apoE may be central to the onset of Alzheimer pathology.

23. C. Ramassamy, D. Averill, **U. Beffert**, S. Bastianetto, L. Theroux, S. Lussier-Cacan, J. S. Cohn, Y. Christen, J. Davignon, R. Quirion, and J. Poirier. (1999) Oxidative damage and protection by antioxidants in frontal cortex of Alzheimer's disease is related to the apolipoprotein E genotype. ***Free Radical Biology & Medicine*** 27(5/6):544-553.
24. **U. Beffert**, N. Aumont, D. Dea, S. Lussier-Cacan, J. Davignon, and J. Poirier. (1999) Apolipoprotein E isoform-specific reduction of extracellular amyloid in neuronal cultures. ***Molecular Brain Research*** 68(1-2):181-185.
25. **U. Beffert**, C. Arguin, and J. Poirier. (1999) The polymorphism in exon 3 of the low density lipoprotein receptor-related protein gene is weakly associated with Alzheimer's disease. ***Neuroscience Letters*** 259(1):29-32.
26. **U. Beffert** and J. Poirier. (1998) ApoE associated with lipid has a reduced capacity to inhibit β -amyloid fibril formation. ***Neuroreport*** 9(14):3321-3323.
27. **U. Beffert**, P. Bertrand, D. Champagne, S. Gauthier, and J. Poirier. (1998) HSV-1 and risk of Alzheimer's disease. ***Lancet*** 352(9123):238.
28. **U. Beffert**, P. Bertrand, D. Champagne, S. Gauthier, and J. Poirier. (1998) HSV-1 in brain and risk of Alzheimer's disease. ***Lancet*** 351(9112):1330-1331.
29. **U. Beffert**, N. Aumont, D. Dea, S. Lussier-Cacan, J. Davignon, and J. Poirier. (1998) β -amyloid peptides increase the binding and internalization of apolipoprotein E to hippocampal neurons. ***Journal of Neurochemistry*** 70(4):1458-1466.
30. **U. Beffert** and J. Poirier. (1996) Apolipoprotein E, plaques, tangles and cholinergic dysfunction in Alzheimer's disease. ***Annals of the New York Academy of Sciences*** 777:166-174.
31. J. Poirier, **U. Beffert**, D. Dea, R. Alonso, D. O'Donnell, and P. Boksa. (1995) Increased levels of statin, a marker of cell cycle arrest, in response to hippocampal neuronal injury. ***Molecular Brain Research*** 34(1):57-64.

Invited Reviews and Book Chapters:

1. **U. Beffert**, P. Stolt, and J. Herz. (2004) Functions of lipoprotein receptors in neurons (review). ***Journal of Lipid Research*** 45(3):403-9.
2. G. Morfini, G. Pigino, **U. Beffert**, J. Busciglio, and S.T. Brady. (2002) Fast axonal transport misregulation and Alzheimer's disease (review). ***Neuromolecular Medicine*** 2(2):89-99.
3. J. Herz, **U. Beffert**, T. Hiesberger, and M. Gotthardt. (2001) ApoE receptors in the brain: Novel signaling pathways with potential relevance for Alzheimer's disease. In: ***Research and perspectives in Alzheimer's diseases***, edited by Beyreuther, K., Christen, Y. and Masters, C., Berlin: Springer-Verlag, pp. 141-148.

4. J. Herz and **U. Beffert**. (2000) Apolipoprotein E receptors: Linking brain development and Alzheimer's disease (review). ***Nature Reviews Neuroscience*** 1:51-58.
5. M. Danik, D. Champagne, C. Petit-Turcotte, **U. Beffert**, and J. Poirier. (1999) Brain lipoprotein metabolism and relation to neurodegenerative disease (review). ***Critical Reviews in Neurobiology*** 13(4):357-407.
6. **U. Beffert**, P. Bertrand, D. Champagne, S. Gauthier, and J. Poirier. (1998) Herpes simplex virus type 1 in brain, apolipoprotein E genotype and Alzheimer's disease (review). ***McGill Journal of Medicine*** 4(1):10-14.
7. R. Quirion, D. Auld, **U. Beffert**, J. Poirier, and S. Kar. (1998) Putative links between some of the key pathological features of the Alzheimer's brain. In: ***The Aging Brain***, edited by E. Wang and S. Snyder, New York: Academic Press, pp. 181-199.
8. **U. Beffert**, M. Danik, P. Krzywkowski, C. Ramassamy, F. Berrada, and J. Poirier. (1998) The neurobiology of apolipoproteins and their receptors in the CNS and Alzheimer's disease (review). ***Brain Research Reviews*** 27(2):119-142.
9. P. Boksa, **U. Beffert**, D. Dea, R. Alonso, D. O'Donnell, and J. Poirier. (1997) Both irreversible neuronal death and reversible neuronal stress are associated with increased levels of statin, a marker of cell cycle arrest. In: ***Apoptosis: Techniques and Protocols***, edited by J. Poirier, New York: Humana Press Inc., pp. 161-182.
10. **U. Beffert**, N. Aumont, D. Dea, J. Davignon, and J. Poirier. (1996) Apolipoprotein E uptake is increased by β -amyloid peptides and reduced by blockade of the LDL receptor. In: ***Neurodegenerative diseases: molecular and cellular mechanisms and therapeutic advances***, edited by G. Fiskum, New York: Plenum Press, pp. 103-108.

TEACHING EXPERIENCE (BOSTON UNIVERSITY)

2014-present	Sole Lecturer, BI203 Cell Biology (50 lectures, 75 hours) Undergraduate course (~400 students) – for biology and related majors Lead teaching fellows for discussion (4 graduate students) Office hours – 3 hours a week
2011-2013	Guest Lecturer, BI481/NE481/BI681 Molecular Biology of the Neuron (1 lecture, 1.5 hours), Undergraduate course (25-30 students) – advanced elective for biology, neurobiology and neuroscience majors
2011-2014	Guest Lecturer, MB722 Advanced Biochemistry (1 lecture, 2 hours) Graduate course (10-15 students) – for first-year graduate students in biology, chemistry and MCBB programs
2010-2012	Guest Lecturer, BI325 Principles of Neuroscience (1 lecture, 1.5 hours) Undergraduate course (75 students) - for biology, neurobiology and neuroscience majors

TRAINEES SUPERVISED

Ph.D. Students at Boston University

- 2018-present Gavin Lagani
Thesis title: Reelin signaling pathways regulating ribosome translational machinery
- 2017-present Christina Gallo
Thesis title: Functional mechanisms underlying alternative splicing in LRP8
Honors & Awards: T32 Pharmacology Fellowship
- 2015-present Kerilyn Omuro
Thesis title: Role of LRP8 in synaptic plasticity
Honors & Awards: T32 Pharmacology Fellowship and NSF Predoctoral Award and George R. Bernard Travel Award
- 2016-present Shawna Henry
Thesis title: Mechanisms regulating Mint1 autoinhibition
Honors & Awards: George R. Bernard Travel Award; Best Poster Award at GRC Neurobiology of Brain Disorders 2018
- 2014-present Andressa Mota
Thesis title: Mechanisms of FOXR1 function in mammalian cells
Honors & Awards: George R. Bernard Travel Awards, Dr. Beverly Brown BU Women's Guild Scholarship Award, Charles Turner Award, Carl Storm Underrepresented Minority Fellowship
- 2013-2017 Amy Ying Lin
Thesis title: Functional characterization of Mint2 mutations associated with autism
Honors & Awards: George R. Bernard Travel Award
Current Position: Postdoctoral fellow at Weill Cornell School of Medicine, NY
- 2010-2016 Greg M. Dillon
Thesis Title: Microtubule plus-end binding protein CLASP2 in neural development
Honors & Awards: George R. Bernard Travel Award
Co-author on two papers

M.A. Students at Boston University

- 2014-2015 Tyler Ash
Thesis title: The role of the Golgi apparatus in neuronal polarity
- 2011-2012 James Gilbert

Undergraduate Students at Boston University

Date	Name	Current Position
2020-present	Anna Natrakul	Undergraduate in the lab
2020-present	Susritha Kopparapu	Undergraduate in the lab
2019-present	Emily Kim	Undergraduate in the lab
2018-present	Shivani Rao	Undergraduate in the lab
2017-2019	Lauren Scrandis	Research Coordinator at B&W Hospital in Boston
2016-2018	Alice Chiang	Traveling and discovery
2016-2019	Feodora Bertherat	Research Associate at Mount Sinai School of Medicine

2015-2017	Christopher Zoppo	MD Candidate at UMass Worcester
2013-2016	Camila Tyminski	Resident Physician in Providence, RI
2012-2015	John Kambouris	Clinical Trial Associate I at Corbus Pharmaceuticals
2011-2014	Christine Stuart	NIH (Advisor for Master's thesis)
2011-2014	Josefa Sullivan	PhD Candidate, Mount Sinai NYC (UROP)
2009-2010	Dana Simmons	Asst. Manager for Medical Affairs at CORY/PAETH
2009-2010	Felecia Marottoli	Graduate Student, University of Illinois,
2007	Sam LoCascio	Graduate Student, MIT

High School Student at Boston University

Date	Name	Current Position
2015	Melissa Cao	High school student, Bethpage, NY
2014	Tammo Heinrich	High school student, Germany

Ph.D. Students at University of Texas at Southwestern, Dallas TX

Date	Name	Current Position
2005	Farnas Nematollah Farsian	Medical resident (co-author on one paper)
2004	Irene Masiulis	Lecturer in Dallas (co-author on two papers)
2003	Tong Zang	Research associate at UTSW
2001	Gilbert Gallardo	Instructor at Washington University in St. Louis
2000	Yavuz Oktay	Professor in Turkey
1999	Susanne Huppmann	Veterinary assistant in Liechtenstein
1995	André Durudas	Grant manager (co-author on two papers)

PRESENTATIONS

Invited Lectures as Assistant Professor at Boston University

2020	Institute of Neuropathology, University of Bonn Medical Center, Bonn, Germany
2020	Alzheimer's & Parkinson's Disease Congress, Vienna Austria
2014	Dept. of Neuroscience, Florida Atlantic University / Scripps Institute Florida
2013	Novartis Institutes for Biomedical Research Inc. Neuroscience, Cambridge, MA
2011	Dept of Biology, Boston University, Boston MA
2010	Geriatric Education and Clinical Center, Bedford VA Hospital, Bedford, MA
2010	Dept. of Biology, Boston University, Boston, MA
2009	Dept. of Physiology and Biophysics, Boston University, Boston MA

Invited Lectures as Postdoctoral Fellow

2006	Merck Research Laboratories, Boston, MA
2006	Dept. Molecular, Cell and Developmental Biology, UC Santa Cruz, CA
2006	Alzheimer Disease Center, UT Southwestern, Dallas, TX
2005	Dept. of Physiology, University of Toronto, Canada
2004	Elba Neuronal Migration Meeting, Marciana Marina, Italy
2001	Second Kuopio Alzheimer Symposium, U. Kuopio, Finland
1999	Clusterin (ApoJ) and ApoE, Gordon Conference, Ventura, CA

Contributed Presentations as Research Assistant Professor at Boston University

- 2020 Gallo CM, Labadorf AT, **Beffert U**, Ho A. Splicing landscape of apoER2 in Alzheimer's disease mapped by single molecule long read RNA sequencing (poster). *Gordon Research Conferences – Coordination and Integration of RNA Processing from Transcription to Translation, Maine, U.S.*
- 2019 Mota A, Niu S, Cheng C, **Beffert U**, Ho A. FOXR1 functions as a potential stress sensor that transcriptionally regulates stress-responsive genes (poster). *Gordon Research Conferences – Stress Proteins in Growth, Development and Disease, Tuscany, Italy.*
- 2019 Henry S, Bartling CRO, Jensen TMT, Rao S, Stromgaard K, **Beffert U**, Ho A. Conformational switch of Mint1 controls APP binding and processing (poster). *Federation of European Neuroscience Societies (FENS) - Understanding and Targeting Alzheimer's Disease, Rungstedgaard, North Copenhagen, Denmark*
- 2018 Henry S, **Beffert U**, Ho A. Conformational switch of Mint1 controls APP binding and processing (poster). *Gordon Conference – Neurobiology of Brain Disorders, Castelldefels, Spain*
- 2018 Dillon GM, Tyler WA, Omuro KC, Kambouris J, Tyminski C, Henry S, Haydar TF, **Beffert U**, Ho A. Plus-end microtubule CLASP2 protein is an essential cytoskeleton effector of the Reelin signaling pathway (poster). *Gordon Conference – Cell Biology of the Neuron, Waterville Valley, NH.*
- 2018 Omuro KC, **Beffert U**, Ho A. Alternative splicing of apoER2 and apoE binding. *Gordon Conference – Lipoprotein Metabolism in the Brain and Circulation and its Role in Disease, Waterville Valley, NH.*
- 2018 Mota A, **Beffert U**, Ho A. Cellular mechanisms of Forkhead Box R1 (FOXR1) function (poster). *Cold Spring Harbor, Nuclear Organization and Function, NY.*
- 2016 **Beffert U**, Dillon GM, Tyler WA, Ho A. Microtubule plus end binding protein CLASP2 is required for proper cortical development. *Gordon Research Conference – Cell Biology of the Neuron, Waterville Valley, NH.*
- 2016 Lin AY, Kenny C, Dupre AE, Dillon GM, **Beffert U**, Ho A. Neuronal adaptor protein Mint2/APBA2 associated in the pathogenesis of autism-spectrum disorders (poster). *Society for Neuroscience, San Diego, CA.*
- 2015 Dillon GM, Tyler WA, Omuro KC, Haydar TF, **Beffert U**, Ho A. CLASP2 regulates symmetric divisions of neural progenitor cells in early brain development (poster). *Society for Neuroscience, Chicago, IL.*
- 2015 Lin AY, Kenny C**, Dupre AE**, Dillon GM*, **Beffert U**, Ho A. Neuronal adaptor protein Mint2/APBA2 associated in the pathogenesis of autism-spectrum disorders (poster). *Society for Neuroscience, Chicago, IL.*
- 2015 Dillon GM, Tyler WA, Omuro KC, Haydar TF, **Beffert U**, Ho A. The role of microtubule tracking protein CLASP2 in neural development (speaker). *Graduate Recruitment Weekend, Boston University, Boston, MA.*
- 2014 Dillon GM, Tyler WA, Kambouris JA, Haydar T, **Beffert U**, Ho A. "CLASP2 affects neuronal migration through actions of the centrosome and Golgi apparatus" (poster) *Gordon Conference Neurodevelopment, Salve Regina University, Newport, RI.*
- 2013 Dillon GM, **Beffert U**, Sullivan JM, Stuart CS, Gilbert JP, Kambouris JA, Ho A. "Microtubule plus-end tracking protein CLASP2 regulates neuronal polarity and synaptic function" (poster) *Keystone Symposia on Molecular and Cellular Biology/Neurogenesis and New Frontiers in Neurodegeneration Disease Research, Sante Fe, NM.*
- 2012 Sullivan JM, **Beffert U**, Ho A. "Cytoskeletal protein CLASP2 controls neuronal development and synaptic plasticity" (poster) *15th Annual Undergraduate Research Symposium, Boston University, Boston MA.*

2012 Kambouris JA, Dillon GM, **Beffert U**, Ho A. "CLASP2 is critical for proper neuronal migration" (poster) *15th Annual Undergraduate Research Symposium, Boston University, Boston MA.*

PROFESSIONAL ACTIVITIES

2011-present Reviewer, The Alzheimer's Association
2011 Panelist Reviewer, Neural Systems Study Section, National Science Foundation
2002 Reviewer, Burroughs Wellcome Fund
2008-present *Ad hoc* Journal Reviewer for: *Scientific Reports, Proceedings of the National Academy Sciences, American Journal of Alzheimer's Disease & Other Dementias, Archives of Neurology now JAMA Neurology, Brain Research, Clinical Neuropharmacology, European Journal of Neuroscience, Journal of Biological Chemistry, Journal of Neurochemistry, Journal of Neuroscience, Neuropathology and Applied Neurobiology, Science*
1995-present Society for Neuroscience
Canadian Association for Neuroscience
Society for Neurochemistry

ACADEMIC SERVICE

Department of Biology, Boston University

2018-present Undergraduate Student Advising for General Biology, Biology Specialization in Cell and Molecular Biology, Neurobiology, and Biochemistry-Molecular Biology
2015-present Nomination of Student Candidate for the Augustus Buck Fellowship (Colleen King)
2015-present Participate in Faculty Recruitment
2010-present Undergraduate Honor's Thesis Committee
2009-present Ph.D. Thesis Advisory Committee
2009-present Ph.D. Qualifying Committee
2009-present Graduate Student Advising for the Biology specialization in Cell/Molecular (CM) Biology, Molecular Biology/Cellular Biology/ Biochemistry (MCBB), Neurobiology and Graduate Program in Neuroscience (GPN), Pharmacology & Experimental Therapeutics
2009-present Faculty, Undergraduate Recruitment Open House Laboratory Tours

Boston University Service

2020-present Faculty, Interviews for Biostatistics Program
2020-present Faculty, Interviews for Pharmacology Department
2019-present Faculty, Laboratory Safety Committee Member
2018-present Faculty, Interviews for the Modular Medical Integrated Curriculum (MMEDIC)
2017-present Faculty, Recruitment and Interviews for the Seven-Year Liberal Arts/Medical Education Program (SMED)
2017 Faculty, Invited Faculty Member for the Kilachand Honors College
2015 Faculty, Development Experience – in collaboration with the Development and Alumni Relations, met with the "Carons" as potential donors to fund Alzheimer's research at Boston University
2010-present Judge for Science and Engineering Day Poster Session, Boston University