CURRCULUM VITAE
MAHSA MOADDAB

EDUCATION

Ph.D.

2010-2014

Department of Physiology, School of Medical Science, University of Otago, Dunedin, New Zealand.

M.Sc.

2006-2009

Department of Biology, Faculty of Science, Shahed University, Tehran, Iran.

B.Sc.

2001-2005

Department of Biology, Faculty of Science, Bu-Ali Sina University, Hamedan, Iran.

EMPLOYMENT

2016-now

Postdoctoral researcher, Boston College, Department of Psychology, Boston, MA, USA.

2014-2016

Postdoctoral researcher, Rosalind Franklin University of Medicine and Science, Department of Cellular and Molecular Pharmacology, Chicago, IL, USA.

AWARDS AND HONORS

2015

Runner-up winner of the postdoctoral poster competition at the Great Lakes Chapter ASPET meeting, Chicago, IL, USA.

2012

Runner-up winner of the student poster competition at the Division of Health Sciences Research Forum, Dunedin, New Zealand.

Winner of the Journal of Neuroendocrinology student poster presentation prize at the Medical Sciences Congress, Dunedin, New Zealand.

2010

University of Otago PhD scholarship, Dunedin, New Zealand.

2009

Participation in the 14th International Brain Research Organization Associate School of Neuroscience (IBRO-APRC) in Bangkok, Thailand.

Participation in the IBRO-APRC in Penang, Malaysia.

ATTENDED WORKSHOPS

2015

The 3rd Workshop on Basal Ganglia Structure & Function, Rosalind Franklin University of Medicine and Science, Chicago, IL, USA.

2012

The 3rd Neurophysiology of Magnocellular and Parvocellular Neurons Workshop, New Orleans, LA, USA.

PUBLICATIONS

Targeting corticotropin-releasing factor (CRF) projections from the oval nucleus of the BNST using cell-type specific neuronal tracing studies in mouse and rat brain. J. Dabrowska, D. Martinon, **M. Moaddab**, D.G. Rainnie, *Journal of Neuroendocrinology 2016.*

Oxytocin excites nucleus accumbens shell neurons in vivo. **M. Moaddab,** B.I. Hyland, C.H. Brown. *Molecular and Cellular Neuroscience 2015; 68: 323-330.*

Oxytocin enhances the expression of morphine-induced conditioned place preference in rats. **M. Moaddab,** B.I. Hyland, C.H. Brown. *Psychoneuroendocrinology 2015; 53: 159-169.*

Peptidergic control of oxytocin and vasopressin neurons and its role in reproductive and hypertension-associated plasticity. C.H. Brown, S.Y. Han, **M. Moaddab**, V. Scott, D.O. Schwenke. Neurophysiology of Neuroendocrine Neurons (eds. W. E. Armstrong and J. G. Tasker). John Wiley & Sons, Ltd, *International Neuroendocrine Federation Master Class Series*, D. O. (2014), doi: 10.1002/9781118606803.ch3.

Functional interaction between the shell sub-region of the nucleus accumbens and the ventral tegmental area in response to morphine: an electrophysiological study. **Moaddab M**, Kermani M, Azizi P, Haghparast A. *Basic and Clinical Neuroscience 2013; 4(2):51-60.*

Effects of reversible inactivation of the ventral tegmental area on the firing rate of neurons in the shell sub-region of the nucleus accumbens and on morphine-induced conditioned place preference in the rat. Haghparast A, **Moaddab M**, Ebrahimzadeh M, Kermani M. *Journal of Semnan University of Medical Sciences 2012; 13(2):189-200*.

Effects of reversible inactivation of the ventral tegmental area on the acquisition and expression of morphine-induced conditioned place preference in the rat. **Moaddab M**, Haghparast A, Hassanpour-Ezatti M. *Behavioural Brain Research; 2009; 198(2): 466-71*.

TRAVEL GRANTS

2013

Travel grant from the Maurice and Phyllis Paykel Trust (MPPT), New Zealand.

Travel grant from the Centre for Neuroendocrinology (CNE), University of Otago, New Zealand.

Travel grant from the Brain Health Research Centre (BHRC), University of Otago, New Zealand.

2012

Travel grant from the British society for Neuroendocrinology (BSN), Bristol, UK.

2009

Travel grant from the 3rd Federation of Asian and Oceania Neuroscience Societies (FAONS) symposium, Bangkok, Thailand. **(COMPETITIVE)**

Travel grant from the 32nd Annual Meeting of the Japan Neuroscience Society (JNS), Nagoya, Japan. **(COMPETITIVE)**

CONFERENCE PARTICIPATIONS

Mahsa Moaddab & Joanna Dabrowska. The effects of oxytocin in the bed nucleus of stria terminalis (BNST) on anxiety and fear. *The 46th Annual Meeting of Society for Neuroscience,* 12-16 Nov 2016, San Diego, USA. **(Poster presentation)**

Mahsa Moaddab & Joanna Dabrowska. Oxytocin in the BNST reduces acoustic startle response – possible role of PKCδ neurons. *The Annual Meeting of the Chicago Society for Neuroscience,* 8 April 2016, Chicago, USA. **(Poster presentation)**

Mahsa Moaddab & Joanna Dabrowska. The effects of oxytocin within the bed nucleus of the stria terminalis on anxiety-like behavior. *The 45th Annual Meeting of Society for Neuroscience*, 17-21 Oct 2015, Chicago, USA. **(Poster presentation)**

Mahsa Moaddab, Brian I. Hyland, Colin H. Brown. Chronic morphine decreases oxytocin-induced excitation of nucleus accumbens shell neurons. *The 28th* Great Lakes Chapter ASPET *Annual Meeting*, 26 June 2015, Chicago, USA. **(Poster presentation)**

Mahsa Moaddab. *The Annual Meeting of the Chicago Society for Neuroscience,* 20 March 2015, Chicago, USA.

Mahsa Moaddab, Brian I. Hyland, Colin H. Brown. Prior morphine exposure blocks oxytocin excitation of nucleus accumbens shell neurons. *The 43rd Annual Meeting of Society for Neuroscience*, 9-13 Nov 2013, San Diego, USA. **(Poster presentation)**

Mahsa Moaddab, Brian I. Hyland, Colin H. Brown. Intracerebroventricular administration of oxytocin enhances nucleus accumbens shell neuronal activity in morphine-naive but not morphine-treated rats. *New Zealand Medical Sciences Congress*, 26-28 Aug 2013, Queenstown, New Zealand. **(Oral presentation)**

Mahsa Moaddab, Brian I. Hyland, Colin H. Brown. Central oxytocin enhances morphine-induced conditioned place preference in the rat. *The 42nd Annual Meeting of Society for Neuroscience*, 13-17 Oct 2012, New Orleans, USA. **(Poster presentation)**

Mahsa Moaddab, Brian I. Hyland, Colin H. Brown. Intra-nucleus accumbens oxytocin administration enhances morphine-induced conditioned place preference in the rat. *New Zealand Medical Sciences Congress*, 27-29 Aug 2012, Queenstown, New Zealand. **(Poster presentation)**

Mahsa Moaddab, Pegah Azizi, Majid Hassanpour-Ezatti, Abbas Haghparast. Effects of reversible inactivation of the ventral tegmental area on the expression of morphine-induced conditioned place preference in the rat. *The 32nd Annual Meeting of the Japan Neuroscience Society*, 16-18 Sep 2009, Nagoya, Japan. **(Poster presentation)**

Pegah Azizi, **Mahsa Moaddab**, Majid Hassanpour-Ezatti, Abbas Haghparast. Effects of CB1 receptor antagonist within the nucleus accumbens on the expression of morphine-induced conditioned place preference in morphine-sensitized rats. *The 32nd Annual Meeting of the Japan Neuroscience Society*, 16-18 Sep 2009, Nagoya, Japan.

Mahsa Moaddab, Pegah Azizi, Majid Hassanpour-Ezatti, Abbas Haghparast. Effects of reversible inactivation of the ventral tegmental area on the acquisition of morphine-induced conditioned place preference in the rat. *The 3rd Federation of Asian and Oceania Neuroscience Societies symposium*, 18-20 May 2009, Bangkok, Thailand. **(Poster presentation)**

Pegah Azizi, **Mahsa Moaddab**, Majid Hassanpour-Ezatti, Abbas Haghparast. The CB1 receptor antagonist within the nucleus accumbens reduced the acquisition of morphine-induced conditioned place preference morphine-sensitized rats. *The 3rd Federation of Asian and Oceania Neuroscience Societies symposium*, 18-20 May 2009, Bangkok, Thailand.

SKILLS

RESEARCH SKILLS: Small animal surgery, *in vivo* extracellular recording, animal behavioral test (e.g. Conditioned Place Preference, Acoustic Startle, and Forced Swim), immunohistochemistry and confocal microscopy.

COMPUTER SKILLS: Microsoft office, Prism, EndNote, and Inkscape

LANGUAGES: English and Persian

GENERAL RESEARCH INTERESTS

Behavioural neuroscience, motivation and reward, addiction, learning and memory, Neurodegenerative disorders.

PROFESSIONAL MEMBERSHIPS

International Brain Research Organization (IBRO)
Japan Neuroscience Society (JNS)
British Society for Neuroendocrinology (BSN)
Society for Neuroscience (SfN)
Physiological society of New Zealand (PNZ)
Centre for Neuroendocrinology (CNE), University of Otago
Brain Health Research Centre (BHRC), University of Otago

REFEREES

Prof Colin Brown
Department of Physiology
University of Otago
Dunedin 9054, New Zealand
Phone: +64-(3) 4797354 Fax: +64-(3) 479 7323
Email: colin.brown@otago.ac.nz

Prof Brian Hyland
Department of Physiology
University of Otago
Dunedin 9054, New Zealand
Phone: +64-(3) 4797342 Fax: +64-(3) 479 7323
Email: brian.hyland@otago.ac.nz