



(c) *Date of granting of tenure* : July 1, 2002

## 7. LEAVES OF ABSENCE

<b>University, Company or Organization at which Leave was taken</b>	<b>Type of Leave</b>	<b>Dates</b>
Post-Doctoral Fellow, The Rockefeller University	Maternity	08-30-96 12-31-96
UBC	Maternity	01-11-99 07-17-99
UBC	Sabbatical	07-01-05 06-30-06
UBC	Sabbatical	07-01-12 06-30-13

## 8. TEACHING

(a) *Areas of special interest and accomplishments*

Statistics, Behavioural Neuroscience, Hormones and Behaviour, Learning and Memory, Behavioural Neuroendocrinology, Neuroplasticity

(b) *Courses Taught at UBC*

<b>Session</b>	<b>Course Number</b>	<b>Scheduled Hours</b>	<b>Class Size</b>	<b>Lectures</b>	<b>Hours Taught</b>		
					<b>Tutorials</b>	<b>Labs</b>	<b>Other</b>
1997	Psyc 304	3 hrs./wk.	93	Yes (39)			
1997	Psyc 574	3 hrs./wk.	3	Yes (39)			
1997	Psyc 547	3 hrs./wk.	4	Yes (39)			
1997	Psyc 201	3 hrs./wk.	220	Yes (39)			
1998	Psyc 318	3 hrs./wk.	93	Yes (39)		5	
1998	Psyc 547E	3 hrs./wk.	10	Yes (39)			
1998	Psyc 304	3 hrs./wk.	82	Yes (39)			
1998	Psyc 201	3 hrs./wk.	275	Yes (39)			
1999	Psyc 201	3 hrs./wk.	104	Yes (39)			
1999-00	Psyc 304	3 hrs./wk.	40	Yes (78)			
1999	Neuro 501	6 hrs/wk	12	Yes (1)			
2000	Neuro 501	6 hrs/wk	15	Yes (9)			
2000	Psyc 366	3 hrs./wk.	50	Yes (39)			
2000	Psyc 461	3 hrs./wk.	28	Yes (39)			
2000	Psyc 201	3 hrs./wk.	145	Yes (39)			
2001	Psyc 366	3 hrs/wk.	58	Yes (39)			
2001	Psyc 593	3 hrs/wk.	14	Yes (39)			
2001	Psyc 201	3hrs/wk	115	Yes (39)			

2001-02	Psyc 366	3hrs/wk	55	Yes (78)
2002	Psyc 461	3hrs/wk	28	Yes (39)
2004	Psyc 366	3hrs/wk	50	Yes (39)
2004	Psyc 514	3hrs/wk	10	Yes (3)
2004-05	Psyc 366	3hrs/wk	50	Yes (39)
2005	Psyc 460	3hrs/wk	37	Yes (39)
2007(W)	Psyc 460	3hrs/wk	33	Yes (39)
2007(F)	Psyc 460	3hrs/wk	35	Yes (39)
2008(F)	Psyc 460	3hrs/wk	35	Yes (39)
2009(F)	Psyc 460	3hrs/wk	35	Yes (39)
2010(F)	Psyc 460	3hrs/wk	39	Yes (39)
2011(F)	Psyc 460	3hrs/wk	44	Yes (39)
2011(F)	Psyc 593	3hrs/wk	8	Yes (39)
2014 (F)	Psyc460	3hrs/wk	34	Yes (39)
2014(F)	Psyc461	3hrs/wk	37	Yes (39)
2014(F)	Psyc523	3hrs/wk	8	Yes (39)
2014 (W)	Psyc460	3hrs/wk	45	Yes (39)
2014 (W)	Psyc461	3hrs/wk	47	Yes (39)
2015(F)	Psyc523	3hrs/wk	12	Yes (39)
2016 (W)	Psyc460	3hrs/wk	45	Yes (39)
2016 (W)	Psyc461	3hrs/wk	47	Yes (39)
2018 (W)	Psyc461	3hrs/wk	42	Yes (39)

☐ \*Each year (2004-) I do a 2 hour lecture in Neuro 501 on neuroendocrinology of depression.

*Courses Taught at UofT*

Session	Course Number	Scheduled Hours	Class Size	Lectures	Hours Taught		
					Tutorials	Labs	Other
2002	Psyc 252	3 hrs./wk.	120	Yes (39)	Animal Behaviour		
2003	Psyc 395	3 hrs./wk.	35	Yes (39)	Hormones and Behaviour		

(c) *Graduate Students Supervised*

Student Name	Program Type	Year		Principal Supervisor	Co-Supervisor(s)
		Start	Finish		
Brandi Ormerod	Neuroscience, Ph.D.	1998-2003		Liisa Galea	
Melissa Holmes	Psychology, M.A.	1999-2001		Liisa Galea	
Erin Falconer	Neuroscience, M.Sc.	2000-2002		Liisa Galea	
Jennifer Wide	Neuroscience, M.Sc.	2001-2002		Liisa Galea	
Jodi Pawluski	Psychology, M.A.(Toronto)	2002-2003		Liisa Galea	

Jodi Pawluski	Neuroscience, Ph.D.	2003-2007	Liisa Galea	
Anna Nagy	Psychology, M.A. (Toronto)	2002-2003	Liisa Galea	
Christine Mazzucco	Neuroscience, M.Sc.	2003-2005	Liisa Galea	
Katia Sinopoli	Neuroscience, M.Sc.	2003-2005	Liisa Galea	
Jaspreet Kambo	Neuroscience, M.Sc.	2003-2005	Liisa Galea	
Jennifer Barker	Neuroscience, Ph.D.	2004-2009	Liisa Galea	
Amanda Green	Neuroscience, M.Sc.	2005-2007	Liisa Galea	
Cindy Barha	Psychology, M.A. Psychology, Ph.D.	2005-2007 2007-2012	Liisa Galea	
Jonathan Epp	Neuroscience, Ph.D.	2005-2010	Liisa Galea	
Kristina Uban	Psychology, Ph.D.	2006-2012	Liisa Galea	Joanne Weinberg
Tamara Crozier	Neuroscience, M.Sc.	2007-2009	Liisa Galea	
Steven Wainwright	Neuroscience, Ph.D.	2008-2015	Liisa Galea	
Carmen Chow	Neuroscience, M.Sc.	2010-2012	Liisa Galea	
Robyn Stewart/McClure	Psychology, M.A.	2010-2012	Liisa Galea	
Michelle Foisy	Psychology, M.A.	2011-2012	Liisa Galea	
Meighen Roes	Psychology, M.A.	2011-2013	Liisa Galea	
Aarthi Gobinath	Neuroscience, Ph.D.	2012-2017	Liisa Galea	
Shunya Yagi	Neuroscience, MSc.	2013-2015	Liisa Galea	
Rand Mahmoud	Neuroscience, Ph.D.	2013-	Liisa Galea	
Samantha Baglot	Neuroscience, MSc	2015-2018	Joanne Weinberg	Liisa Galea
Wansu Qui	Neuroscience, Ph.D.	2016-	Liisa Galea	
Ana Gheorghhe	Neuroscience, M.Sc.	2016-2017	Liisa Galea	
Shunya Yagi	Neuroscience, Ph.D.	2016-	Liisa Galea	
Bonnie Lee	Neuroscience, M.Sc.	2018-	Liisa Galea	
Tanvi Puri	Neuroscience, Ph.D.	2018-	Liisa Galea	

(d) *Continuing Education Activities*

(e) *Visiting Lecturer (indicate university/organization and dates)*

(f) *Other*

Undergraduate Research Supervision:

Session	Nature of Undergraduate Research Project	# of Students
1997/98	Psyc 466 project	c
	Psyc 366 project	4
	Psyc 348 project	1
1998/99	Psyc 466 project	4
	Psyc 366 project	2

	Psyc 448 project	1
	Psyc 348 project	1
1999/00	Psyc 466 project	4
	Psyc 366 project	3
	Psyc 448 project	2
	Psyc 348 project	1
2000/01	Psyc 366 project	3
	Psyc 466 project	2
	Psyc 448 project	2
	Psyc 348 project	1
	Biol 448 project	1
2001/02	Psyc 366	8
	Psyc 466	2
	Psyc 448	2
2002/03	Honours thesis	1
U of T	Directed studies	1
	Psyc 299	2
	Research Opportunity Program	4
2003/04	Psyc 366	2
	Psyc 448	1
2004/5	Psyc 366	7
	Psyc 448	6
2005/6	Psyc 448	3
	Psyc 366	5
2006/7	Psyc 466	1
	Psyc 448	1
2007/8	Biol 448	2
	ISP directed studies	2
	3 <sup>rd</sup> y honours	2
	Psyc 366	1
2008/9	Psych 366	1
	Directed Studies	5
2009/10	Directed Studies	2
	366	3
	Honours	2
2010/11	Directed Studies	1
	366	1
2011/12	Directed Studies RA	3
2012/13	Honours	1
	Directed Studies	1
2013/14	Directed Studies	3
	Honours	1
2014/15	Directed Studies	6
	Honours	1
	366	3
2015/16	Directed Studies	4

	Honours	1
	366	3
2016/17	Directed Studies	2
	366	1
2017/18	Directed Studies	1
	366	1

### **Post-Doctoral Fellows**

<b>Dates</b>	<b>Name</b>	<b>Current Employment</b>
May 2004-June 2006	Mark Spritzer	Associate Professor Middlebury College
April 2007- April 2010	Susanne Brummelte	Assistant Professor Wayne State University
January 2008- April 2010	Wendy Wilson	Associate Professor Dickinson State University
August 2010- July 2014	Joanna Workman	Assistant Professor, University of Albany
March 2011- December 2015	Dwayne Hamson	Columbia College, Vancouver
March 2012- May 2015- May 2016	Paula Duarte-Guterman Agnete Overgaard	Scientist, Histology
October 2017- May 2018	Silvia Paterlini	
September 2018- October 2018- November 2018	Travis Hodges Dannia Islas Paul Sheppard	

### **Visiting Students**

2004-2005	Susanne Brummelte	University of Bielefeld, Bielefeld, Germany
April 07-Sept 07	Julia Rummel	University of Cologne, Germany
March 08-June 08		
April 10- August 10	Julia Sniegocki	University of Dresden, Germany
Sept 10-April 11	Dimka Drewczynski	University of Amsterdam, Netherlands
January 13-Aug 13	Jaume Ferrer Lalanza	Autonomous University of Barcelona, Spain
October 16-May 17	Laura Casanueva Reimon	University of Barcelona

### **Rotation Graduate Students**

2004 Vilte Barakauskas, Neuroscience  
 2006 Jeanette Evans, Neuroscience  
 2009 Nadia Scott, Neuroscience

### **Undergraduate Awards (selected)**

#### ***Christina van den Brink* –**

NSERC URSA (2014), Robert and Kazuko Barker Award (UBC) (\$400) 2014, Faculty of Arts  
 Undergraduate Research Award (UBC) (\$3000) 2013, Quinn Travel Award (UBC)  
 (\$500) 2014, Trek Excellence Scholarship (UBC) (\$1500) 2013, Outstanding Wesbrook  
 Scholar, Best Thesis in 2012-13  
 Research Poster (Psychology Undergraduate Research Conference) (\$200) 2013

**Sophia Solomon** – Best oral presentation - 16th Annual Psychology Undergrad Research Conference (UBC) (2014)

Cara Tweed – NSERC URSA (2013)

Jennifer Wong – NSERC URSA (2008)

Jennifer Wide – NSERC URSA (2000)

**Robin Richardson** (2015, 2016) NSERC URSA, Wesbrook Scholar (2015), Governor-General’s Silver Medal in Arts

Graduate Student and PDF Awards (selected)

Cindy Barha – SFN Chapter Travel Award (2011)

- MSHRF Senior Student 2010-2012
- NSERC PGS-A and B
- SBN Travel Grant (2011)
- ISBN Travel Grant (2010)
- CIHR Institute of Aging - Aging + Prize (2011)
- CPA Certificate of Excellence (2013, Best PhD thesis)
- Young Investigator Award, Society for Behavioral Neuroendocrinology (2014) - \$1250.00 USD

Jodi Pawluski – NSERC – PGS-M (2003),

- PGS-D (2004-2006)
- FRS-FNRS Chargé de recherche fellowship (2010-2013) - €100,000+
- University of Liège Postdoctoral Fellowship (2010-2011) – €40,000 (declined)
- Young Investigator Award, Society for Behavioral Neuroendocrinology (2010) - \$1250.00 USD
- International Behavioral Neuroscience Society Travel award (2010) - \$1000.00 USD
- NSERC Postdoctoral Fellowship (2008-2010) - \$80,000
- Canadian Institutes of Health Research (CIHR) Interdisciplinary Women’s Reproductive Health Strategic Training Program Postdoctoral Fellowship (2007-2008) –\$39,750.00
- Parental Brain Conference Graduate Student Poster Award (June 2007) - \$250.00
- Student Fellowship, Steroids and Nervous System Conference (Feb 2007) – €200.00
- Michael Smith Foundation for Health Research (MSFHR) Senior Trainee (2006-2008) - \$45,000 (declined 1 year of funding)
- Human Early Learning Partnership (HELP) graduate funding (2006) - \$4910.00
- Norske Skog University Graduate Fellowship (2006) -\$16,000 (declined)
- NSERC PGSD2 Award (2004-2006) – \$42,000.00
- Society of Behavioral Neuroendocrinology Travel Award (2004) - \$1,000USD
- Brain Research Center Poster Award (Nov, 2004)
- NSERC PGSA Award (2002-2004) – \$38,300.00
- CIHR Student Trainee Award (2002) - \$4000.00

Jennifer Wide MSHRF – student award 2002

Jonathan Epp – MSHRF – Senior Student award 2008-2010

Robyn McClure (nee Stewart) – NSERC PGS-M (2010-11)

- CPA Certificate of Excellence (2013, Best MA thesis)

Michelle Foisy CIHR (2011-12)

Brandi Ormerod - NSERC PGS-M,  
 -NSERC PGS-D  
 - Alzheimer Society of Canada  
 -SFN Chapter Travel Award

Jennifer Barker – NSERC-PGS-D (2005-7)  
 - Alzheimer Society of Canada (2008)

Melissa Holmes – NSERC-PGS-M (1998)

Katia Sinopoli – NSERC PGS-M (2003-4)

Kristina Uban – IMPART

2013 – Best Dissertation of the Year – International Society of Developmental Psychobiology (\$750)  
 NRSA PostDoctoral Fellowship (F32-NIAAA 022561-01, Three years, \$48,014 per y)  
 PostDoctoral Travel Award, Research Society on Alcoholism (RSA- \$300)

2012: Travel Award, International Society of Developmental Psychobiology (\$500)

2011: “Student Merit Award” from FASD Study Group (sub-group of RSA members) (\$1,750)

2011: Travel Award, Research Society on Alcoholism (\$200)

2008-2012: International Academic Scholarship, University of British Columbia (\$2,109/yr)

2009: Travel Award, FASD Study Group (sub-group of RSA members) (\$750)

2009: Travel Award, Fetal Alcohol Canadian Expertise Round Table (CFFAR) (\$750)

2009: Travel Award, International Society of Developmental Psychobiology (\$550)

2009: Travel Award, WHRN Knowledge Translation Conference (\$325)

2009: Travel Award, IMPART for FASD Conference (\$900)

2008-2012: PhD Training Fellowship, IMPART/CIHR (\$21,000/yr)

2007: Travel Award, Univ. Graduate Fellowships to Society for Neuroscience (\$400)

2006-2010: PhD Tuition Award, Univ. British Columbia (\$7,200/yr)

2006-2007: University Graduate Fellowship, University of British Columbia (\$17,500)

Aarthi Gobinath – Entrance Scholarship -Neuroscience (\$5000, 2012)

2012-14 International Tuition Award - Tuition award from Faculty of Graduate Studies - \$3200

2013 Neuroscience Extravaganza – University of British Columbia - 1st place in poster competition

2013 International Society for Developmental Psychobiology (ISDP) - 1st place in poster competition - \$300

2013 Travel Award – National Institute of Health/Sackler Travel Award - Travel award from International Society of Developmental Psychobiology through NIH - \$500

2013 Travel Award – Canadian Institutes of Health Research. Travel Award from Institute for Community Support Travel Award – \$ 2150

2014- Don Stein Fellowship, Society for Women’s Health Research, Travel Award

2015 – 4 year fellowship UBC

2015- Travel Award - Institute Community Support IGH ( for ISDP Spain)

2016- ISDP Travel Award

2016 Public Scholars Award

2017 - International Behavioral Neuroscience Travel Award (\$1000+)

2018- Gunn Award for Best PhD in Neuroscience

Shunya Yagi– Entrance Scholarship -Neuroscience (\$5000, 2013)

International Behavioral Neuroscience Travel Award (\$1000+, 2017)

Killam Doctoral Fellowship 2018-2010 (\$30,000 per year)



Rand Mahmoud – 4 year scholarship UBC

Tuition award 2013

International Tuition Award (2014)

2014 - Neuroscience Extravaganza – University of British Columbia - 1st place in poster competition

2015 – International Travel award – ISPNE (Edinburgh).

2016 – Society for Biological Psychiatry – Travel Award

2017 – Stress Meeting Princeton University – Travel Award

2017- Society for Neuroscience Travel Award

2018- International Congress of Neuroendocrinology Travel Award (\$800, 2018)

Samantha Baglot

-2018 – CIHR Vanier (taken up at U Calgary)

- 2017- Lindsay & Elizabeth Gordon Award in Health Sciences (University of British Columbia)

- 2016 -Lindsay & Elizabeth Gordon Graduate Health Research Award (University of British Columbia)

- 2015 - Aboriginal Graduate Fellowship and Tuition Award (University of British Columbia)

- 2015 - 2016: NSERC Canada Graduate Scholarship Master's Award (University of British Columbia)

- 2015- 2016: Faculty of Medicine Graduate Award (University of British Columbia)

Wansu Qiu

2018 – Best talk at BC Children’s Hospital

2018- travel award to ISDP (International Society of Developmental Psychobiology)

### PDFs

Travis Hodges-

Joanna Workman – Coast Capital Depression Fund Young Investigator Award– (2011)

– NARSAD Young Investigator Award (2012-14)

– CIHR PDF award 2012-2015

– IBNS travel award 2013 ( Dublin)

– CIHR – IGH – Travel Award 2013

Dwayne Hamson – NSERC-PDF

CIHR – IGH – Travel Award 2013

Paula Duarte Guterman –NSERC PDF 2012,

– Alzheimer Association Fellowship 2017-2020

– Young Investigator Award, Parental Brain, 2018

Susanne Brummelte – Young Investigator Award ISDNP, ISPNE, SBN (2009)

Wendy Wilson – Willms Fellowship

Mark Spritzer – CIHR PDF award

## **9. SCHOLARLY AND PROFESSIONAL ACTIVITIES**

(a) *Areas of special interest and accomplishments*

Behavioural neuroscience

Learning and memory  
Neurogenesis and apoptosis  
Psychoneuroendocrinology

*Research Productivity:* My H index is 50 (ISI – as of Oct 2018; Google Scholar 61, my i10=129).  
From 2010 my papers have received over 500 citations per year.

(b) *Research or equivalent grants (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC))*

<b>Granting Agency</b>	<b>Subject</b>	<b>C O M P</b>	<b>\$ Per Year</b>	<b>Year</b>	<b>Principal Investigator</b>	<b>Co-Investigator(s)</b>
NSERC-DAS	Discovery Accelerator Supplement	C	\$40,000	18-21	Liisa Galea	
NSERC	Hormones and Learning and Memory	C	\$71,000	18-23	Liisa Galea	
CIHR: Project	Assessing the role of adolescent hormonal contraceptive use on risk for depression	C	77,755	2018-2024	Frances Chen	Christine Anderi Liisa Galea Joelle LeMoult Jerilynn Prior Colin Ross
NSERC:RTI	Multiplex immunoassay electrochemiluminescence system and touchscreen chambers for examining molecules related to cognition.	C	\$139,479	2017	Liisa Galea	Catharine Winstanley
Jakeway Family Neurorehabilitation Seed Fund	Exercise and prevention of chemotherapy-related cognitive impairment: The role of estrogens in an animal model.	C	5000	2017	Kristen Campbell	Liisa Galea
CIHR: Project Scheme	The aging maternal brain: implications for estrogen therapy on cognitive health and dementia risk	C	\$114,675	2016-2021	Liisa Galea	Cindy Barha Kelly Murphy

<b>Granting Agency</b>	<b>Subject</b>	<b>C O M P</b>	<b>\$ Per Year</b>	<b>Year</b>	<b>Principal Investigator</b>	<b>Co-Investigator(s)</b>
CIHR: Catalyst Grant: Sex as a Variable in Biomedical or Translational Research Canadian Institutes of Health Research	Effect of exercise intervention on brain health in older age: interaction between sex and genotype	C	75,000	2016- 2018	Liisa Galea	Cindy Barha Teresa Liu- Ambrose
Canadian Institutes of Health Research	Neural plasticity-dependent mechanisms of antidepressant efficacy in males and females	C	\$128,574	2015- 2020	Liisa Galea	
Canadian Institutes of Health Research	Reshaping the Path of Mild Cognitive Impairment by Refining Exercise Prescription: Understanding Training Type and Exploring Mechanisms	C	\$180030	2015- 2020	Teresa Liu- Ambrose	BEST, John BOYD, Lara Davis, Jennifer GALEA, Liisa GOLDSMITH, Charles Hall, Peter HANDY, Todd HSIUNG, Ging- Yuek Jacova, Claudia KRAMER, Arthur MACKAY, Alexander NAGAMATSU, Lindsay Sheel, Andrew (Bill) VOSS, Michelle Liisa Galea
Women in World Neuroscience	Empowering Women in Neuroscience at home and around the World: Social Media as a Tool to Broaden Mentoring and Collaborative Opportunities	C	\$2000	15-16	Julie Robillard	Liisa Galea
NIH (R01 AA022460- 01)	Prenatal Alcohol and Neuroimmunity	C	200,000 (5%)	13-18	Joanne Weinberg	Doug Waterfield Liisa Galea
NSERC	Hormones and Learning and Memory	C	\$57,000	13-18	Liisa Galea	

<b>Granting Agency</b>	<b>Subject</b>	<b>C O M P</b>	<b>\$ Per Year</b>	<b>Year</b>	<b>Principal Investigator</b>	<b>Co-Investigator(s)</b>
Alzheimer Society of Canada	Estrone versus Estradiol-based HRTs effects on cognition and brain plasticity: interaction with reproductive experience	C	\$75,000	12-14	Liisa Galea	
Coast Capital Depression Fund	The role of PSA-NCAM and activated new neurons in determining antidepressant efficacy in a vulnerable and non-vulnerable population.	C	\$30,000	11-13	Liisa Galea	
Coast Capital Depression Fund	Role of pharmacological and nonpharmacological antidepressants in offspring development and behaviour in an animal model of postpartum depression	C	\$30,000	11-13	Joanna Workman	Liisa Galea
CIHR	Gonadal hormone effects on adult hippocampal neurogenesis in the male and female rodent	C	\$132,938	10-15	Liisa Galea	
CIHR	Stress, corticosterone and postpartum depression: effects on depressive-like behaviors and neural markers of depression in both mother and offspring	C	\$100,000	10-11	Liisa Galea	
NSERC	Image analysis program, microtome and operant chambers for investigating effects of hormones on cognition and brain (equip)	C	\$48,890	09-10	Liisa Galea	
CFFAR	Vulnerability to Addiction: Effects of Prenatal Alcohol Exposure and Stress	C	\$34,000	08-10	Joanne Weinberg	Liisa Galea
NSERC-DAS	Discovery Accelerator Supplement	C	\$40,000	07-10	Liisa Galea	
NSERC	Hormones and Learning and Memory	C	\$50,922	07-13	Liisa Galea	

<b>Granting Agency</b>	<b>Subject</b>	<b>C O M P</b>	<b>\$ Per Year</b>	<b>Year</b>	<b>Principal Investigator</b>	<b>Co-Investigator(s)</b>
PARF-Pacific Alzheimer Research Foundation	Effects of estrogen on neurogenesis in the adult hippocampus in young and aged rodents	C	\$70,662	07-10	Liisa Galea	
Michael Smith Health Research Foundation	Hormonal effects on neural plasticity – Senior Scholar Career Award	C	\$100000	06-11	Liisa Galea	
CIHR	Parity effects on brain morphology and function	C	\$84,899	06-11	Liisa Galea	
CIHR – Institute of Gender and Health	Parity effects on brain morphology and function	C	\$87,991	06-07	Liisa Galea	
BC Ministry of Children and Family Development (via HELP)	Developmental Vulnerability: Effects of Prenatal Ethanol Exposure on Stress Reactivity, Cognition and Hippocampal Neurogenesis	C	\$25,000	06-08	Joanne Weinberg	Liisa Galea
NSERC	Operant chambers and stereotaxic for investigating estrogen's effects on learning and memory	C	\$48,427	06-07	Liisa Galea	
NARSAD	Models of post-partum depression: effects on behavior, stress reactivity and hippocampal neurogenesis in both mother and offspring	C	\$55,000	05-07	Liisa Galea	
CIHR	Cognitive and Hormonal Aspects of Mild Cognitive Impairment	C	\$49952	2005-06	Liisa Galea	Kelly Murphy Angela Troyer

Granting Agency	Subject	C O M P	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
CIHR	Strategic Training Program Grant: Neurobiology and Behaviour	C	\$300,000	02-08	Steve Vincent	AULD; CHRISTIE; CYNADER;DELA NEY, ; EL- HUSSEINI; FELDMAN; GALEA; HONER; INGLIS; KRIEGER,;MURP HY;O'CONNOR,; PELECH,; PHILLIPS; RANKIN; RAYMOND; REINER; ROSKAMS; SIMPSON; SNUTCH; SOJA; SONG; STEEVES; STOESSL; TETZLAFF; WANG; WEINBERG; WERKER
BC Ministry of Children and Family Development (via HELP)	Effects of early androgens and corticosterone on stress reactivity and cognition in adulthood.	C	\$20,000	05-06	Liisa Galea	
BC Ministry of Children and Family Development (via HELP)	Morphological changes during pregnancy and the post-partum period: relation to mothering experience and behaviours	C	\$40000	03-05	Liisa Galea	
PREA (Premier's Research Excellence Award)	Adrenal and Gonadal hormone effects on hippocampal plasticity and behaviour	C	\$30000 (declined due to move)	03-08	Liisa Galea	
CIHR	Estrogen and Progesterone Effects on neurogenesis in the mammalian hippocampus	C	\$71,094	03-06	Liisa Galea	
NSERC	Hormones and Learning and Memory	C	\$32,000	02-06	Liisa Galea	

<b>Granting Agency</b>	<b>Subject</b>	<b>C O M P</b>	<b>\$ Per Year</b>	<b>Year</b>	<b>Principal Investigator</b>	<b>Co-Investigator(s)</b>
HELP (Human early learning program)	An animal model of post-partum depression: effects on neurogenesis and behaviour	C	\$12,760	02-03	Liisa Galea	
Institutional SSHRC	Effects of pregnancy on cognition, mood and olfaction: contribution of social support and hormones	C	\$3500	02-03	Liisa Galea	
NSERC	Teaching microscope and distilled water unit for histological analysis	C	\$15,095	01-02	Liisa Galea	
Alzheimer's Society of Canada	The effects of estradiol on adult neurogenesis: cell proliferation and cell survival	C	\$41,632	00-02	Liisa Galea	
Alzheimer's Society of Canada	Thyroid hormones and cortisol levels exacerbate brain aging and onset of dementia	C	\$41,187	00-02	Peter Graf	Liisa Galea
NSERC	Vibratome and distilled water unit for histological and stereological analysis	C	\$15,000	2000	Liisa Galea	
CIHR	Neurogenesis in Natural Populations Workshop	C	\$30,000	2000	Martin Wojtowicz	Rudy Boonstra Liisa Galea Stephen Matthews G. Massicotte
Alzheimer's Soc of BC	Hormonal Control of Adult Neurogenesis	C	\$33,360	97-99	Liisa Galea	
NSERC	Spatial learning, Stress and adult neurogenesis	C	\$20,700	98-02	Liisa Galea	
UBC-HSS	Pregnancy-related changes in mood & cognition	C	\$1,900	99-00	Liisa Galea	
NSERC	Microscope image analysis system Stress effects on CNS	C	\$15,000	1998	Liisa Galea	

- (b) *Research or equivalent grants (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC))*
- (c) *Research or equivalent contracts (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC)).*

<b>Granting Agency</b>	<b>Subject</b>	<b>COMP</b>	<b>\$ Per Year</b>	<b>Year</b>	<b>Principal Investigator</b>	<b>Co-Investigator(s)</b>
PheroTech Inc. & National Research Council	Antifeedant properties of Odours using Meadow voles	C	\$9,072	98-99	Liisa Galea	

- (d) *Invited Presentations (\* were given to the public)*

**Galea, L. A. M.,** Kavaliers, M., and Ossenkopp, K.-P. (1995, September). Hormonal Aspects of Spatial Learning in Meadow Voles (*Microtus pennsylvanicus*) and Deer Mice (*Peromyscus maniculatus*). Paper presented at *Proceedings of the 4th International Congress of Neuroethology*, Cambridge England.

**Galea, L. A. M.** (1995, August). Sexually-dimorphic spatial learning in rodents. Paper presented at *Navigation: Migration and Homing Symposium, Company of Biologists*. Cambridge, England.

**Galea, L. A. M.** and McEwen. B. C. (1997, May). Estrogen-related changes in spatial learning, hippocampal size and adult neurogenesis. Paper presented at *International Society for Behavioural Neuroscience*. Gananoque, ON.

**Galea, L.A.M.** (2000, February). Neuroendocrine correlates of behaviour and hippocampal neurogenesis. Paper presented at the *Winter Conference on Neuroplasticity*, St. Lucia, West Indies.

**Galea, L.A.M.** (2000, April). Differential effects of estradiol on learning and hippocampal neurogenesis. Paper presented at the *Workshop on Steroid and Hormone Function*. Breckenridge, Colorado.

**Ormerod, B.K.** and **Galea, L.A.M.** (2000, May) Estradiol regulates cell proliferation in the dentate gyrus of adult female meadow voles, *Microtus Pennsylvanicus*. *International Behavioral Development Symposium*, Minot, North Dakota, p.51. Talk presented by Ormerod

**Galea, L.A.M.** (2000, May). Neurogenesis in natural populations: Possible ecological relevance. Paper presented at the *Workshop on Neurogenesis in Natural Populations*. Toronto, Ontario.

**Galea, L.A.M.** (2001, June). Effects of estradiol on learning and memory. Paper presented at the *Theoretical and Experimental Neuropsychology*. Montreal, Quebec.



**Galea, L.A.M.** (2001, October). Estrogen and neurogenesis: Are more neurons better for learning and memory. Paper presented at the *Neuroscience: 10 Years Celebration*. London, Ontario, The University of Western Ontario.

**Galea, L.A.M.** (2002, February). Hormones, stress and adult neurogenesis: Are more new neurons better for learning and memory? Paper presented at the *Conférences Phillippe Laudat, Neural Stem Cells: From Development to Clinic*. Aix-Les Bains, French Alps.

**Galea, L.A.M.** (2002, October). Hormones, stress and adult neurogenesis: Are more new neurons better for learning and memory? Talk presented at Department of Psychology, Queen's University, Kingston, Ontario.

**Galea, L.A.M.** (2002, October). Hormones, stress and adult neurogenesis: Are more new neurons better for learning and memory? Talk presented at the *Learning and Plasticity Seminar Series*. University of Toronto, Canada.

**Galea, L.A.M.** (2003, February). Hormones, stress and adult neurogenesis: Are more new neurons better for learning and memory? Talk presented at the *Biology Colloquium Series*. University of Toronto at Mississauga, Canada.

**Galea, L.A.M.** (2003, March). Hormones, stress and adult neurogenesis: What's learning got to do with it? Talk presented at the Psychology Colloquium series, Dalhousie University, Halifax, NS.

**Galea, L.A.M.** (2003, October). New neurons in your adult brain: What are they good for? Paper presented at Concordia University, Montreal, Quebec.

**Galea, L.A.M.** (2003, November). New neurons in your adult brain: What are they good for? Paper presented at Baycrest Hospital, Toronto, Ontario.

**\*Galea, L.A.M.** (2004, June). Do kids literally drive us crazy: How does Motherhood affect your brain? Public lecture presented at Mini Med School, BC Women and Children's Hospital, Vancouver, BC.

**Galea, L.A.M.** (2004, October). Estrogen and Learning and Memory: What's good for your brain? Paper presented at Sex, Gender, Drugs and the Brain Symposium at *Society for Neuroscience*, San Diego, CA.

**Galea, L.A.M.** (May, 2006). Parity and Mothering Affects Working/Reference Memory and Hippocampal Neurogenesis. Symposium on Explorations of the Parental Brain at *International Behavioral Neuroscience Society*, presented at Whistler, BC.

20. **Galea, L.A.M.** (February 2007). Gonadal hormone regulation of adult hippocampal neurogenesis. Presented at the 4th International Meeting on "Steroids and the Nervous System" in Torino, Italy.

**Galea, L.A.M.** (June, 2007). Parity and Mothering Affects Hippocampal Function and Structure. Symposium on Neuroplasticity and Reproductive Experience at the *Parental Brain Conference*, presented in Boston, Mass., USA.

**Galea, L.A.M.** (June, 2007). Parity and Mothering Affects Hippocampal Function and Structure. CFRI Trainee Research Forum, presented *in* Vancouver, BC.

Pawluski, J.L. **Galea, L.A.M.**, (October, 2007). Reproductive experience alters hippocampal plasticity and function. Symposium on "Understanding the Maternal Brain" held at the First International Congress of the International Society for Brain Behavioral Science and Medicine in Bangkok, Thailand. Talk presented by Pawluski

**Galea, L.A.M.** (October, 2007). Reproductive Experience and Gonadal Hormones Affect Hippocampal Function and Structure. Colloquium presented at University of Richmond, Virginia, USA.

**Galea, L.A.M.** (December, 2007). Gonadal hormone regulation of cognition and adult neurogenesis in the hippocampus. Behavioural Neuroscience Seminar at the University of Cambridge, presented in Cambridge, England.

**Galea, L.A.M.** (December, 2007). Sex Matters: Gonadal Hormone regulation of Spatial Learning and Hippocampal Neurogenesis. Plenary Lecture at the *Association for the Study of Animal Behaviour*, presented in London, England.

Brummelte, S., **Galea LAM**, (June, 2008). Effects of prolonged exposure to high levels of corticosterone during gestation and/or postpartum on maternal and offspring behaviour. Talk presented at *Canadian Society for Brain, Behaviour and Cognitive Science*, London, ON by Galea.

\***Galea, L.A.M.** (September, 2008). Stressed and depressed: Investigating the role of Hormones, Stress and their Impact on Mental Health. NARSAD: Healthy Minds across America, presented in Vancouver, BC.

**Galea, L.A.M.** (September, 2008). Does motherhood change the brain? Examining the role of reproductive hormones on neuroplasticity, cognition and mental health. Colloquium presented at BC Women and Children's Hospital in Vancouver, BC.

**Galea, L.A.M.** (January, 2009). Stressed and depressed: Investigating the role of Hormones, Stress and their Impact on Mental Health. Department of Psychology, Simon Fraser University, Burnaby, BC.

**Galea, L.A.M.** (March, 2009). Does motherhood change the brain? Examining the role of reproductive hormones on neuroplasticity, cognition and mental health. Colloquium presented to Physiology Club, University of Wyoming, Laramie Wyoming.

\***Galea, L.A.M.** (April, 2009). Estrogens in the young and older brain: Effects on adult neurogenesis and cognition. Presented to Pacific Alzheimer Research Foundation, Vancouver, BC.

**Galea, L.A.M.** (July, 2009). Does motherhood change the brain? Examining the role of reproductive hormones on neuroplasticity, cognition and mental health. Colloquium presented to Department of Psychology, Queen's University, Kingston, Ontario, Canada.

**Galea, L.A.M.** (July, 2009). Ovarian hormone withdrawal as a model of postpartum depression. As part of a Symposium entitled, Steroid Hormones and Depression: What we can learn from animal

models and gender differences. *International Society of Psychoneuroendocrinology*, San Francisco, CA, USA.

**Galea, L.A.M.** (September, 2009). Stressed and depressed: Investigating the role of Hormones, Stress and their Impact on Mental Health. IMPART Research Day, University of British Columbia, Vancouver, BC.

**Galea, L.A.M.** (October, 2009). Stressed and depressed: Investigating the role of Hormones, Stress and their Impact on Mental Health. TGIF, Centre for Molecular Medicine and Therapeutics, University of British Columbia, Vancouver, BC.

**Galea, L.A.M.** (November, 2009). Why Sex Matters for Brain Health. Kalvi Frontiers of Science Symposium. National Academy of Sciences, Irvine, CA.

**Galea, L.A.M.** (March, 2010). Stressed and depressed: Investigating the role of Hormones, Stress and their Impact on Mental Health. Colloquium at Tulane University, New Orleans, LA, USA.

\***Galea, L.A.M.** (June, 2010). Motherhood changes your brain. Secrets of the Female Mind. Women in World Neuroscience, IBRO Workshop. Vancouver, Canada.

**40. Galea, L.A.M.** (October, 2010). Stressed and depressed: Investigating the role of Hormones, Stress and their Impact on Mental Health. Colloquium at Biological Systems, University of Toronto, Toronto, Canada.

\***Galea, L.A.M.** (November, 2010). Girl Brains vs. Boy Brains. Telus World of Science, Vancouver BC.

**Galea, L.A.M.** (December, 2010). Sex Steroids, Drugs of Abuse, and Postpartum Depression *American College of Neuropsychopharmacology (ACNP)* meeting, Miami, Florida.

**Galea, L.A.M.** (March, 2011). Why Sex Matters for Brain Health. Graduate seminar in Rehabilitation UBC, Vancouver.

**Galea, L.A.M.** (May, 2011). Stress and corticosterone effects on the mother and offspring. CIHR workshop Clarifying measurement of perinatal comorbidity and stress regulation in mothers and infants. Vancouver, BC.

Brummelte, S., **Galea, L.A.M.** (May, 2011). Depression, hormones and adult neurogenesis. Spring Conference on Hippocampal Research. Verona, Italy.

**45. Galea, L.A.M.** (October, 2011). Stressed and depressed: Investigating the role of Hormones, Stress and their Impact on Mental Health. BRAIN Physiology Colloquium, University of Toronto.

Galea, L.A.M. (May, 2012). Stressed and Depressed: investigating the role of sex hormones and neuroplasticity on mental health. Hotchkiss Brain Institute Colloquium, University of Calgary.

**Galea, L.A.M.** (May, 2012). Stress and Stress Hormone modulation of Hippocampal Neurogenesis in males and females. *Canadian Association for Neuroscience Society* meeting, Vancouver, BC.

**Galea, L.A.M.** (June, 2012). Maternal corticosterone: differences in pre- versus post-partum exposure in the dam and her offspring. Symposium on Plasticity in the maternal brain: effects of stress, drugs and medication at *International Behavioral Neuroscience Society* meeting, Kona, Hawaii.

**Galea, L.A.M.** (October, 2012). Sex differences in the effects of stress or corticosterone exposure during development on hippocampal neurogenesis and behavior. *International Society for Developmental Psychobiology*. New Orleans, LA.

**50. Galea, L.A.M.** (October, 2012). Steroid hormones and hippocampal neurogenesis during pregnancy and motherhood to be presented during Symposium entitled: A Matter of Life and Death: Establishing and Maintaining Sex Differences in Brain and Behavior Throughout the Lifespan. *Society for Neuroscience*. New Orleans, LA.

**Galea, L.A.M.** (November, 2012). Why Sex Hormones Matter for Healthy Brain Aging. Distinguished Speakers Lecture Series, University of Lethbridge, Lethbridge, AB.

# **Galea LAM** (February, 2013). Why sex and sex hormones matter for brain health: steroid hormone modulation of cognition, emotion and hippocampal neuroplasticity. Plenary lecture for 7th International Meeting on: "Steroids and Nervous System" Torino, Italy.

**Galea, L.A.M.** (March, 2013). Why Sex Hormones Matter for Healthy Brain Aging. Health Psychology, UBC

**Galea, L.A.M.** (April, 2013). Pregnancy, Parenthood and Aging: Why Hormones Matter for Brain Health. Penn State, State College, PA

**Galea, L.A.M.** (April, 2013). What Animal Models of Postpartum Depression Reveal About Consequences to Offspring Development. SRCDD, Seattle, WA, USA

**Galea, L.A.M.** (June, 2013). Lasting impact of stress during development: sex differences in neuroplasticity, HPA axis and behaviour. *International Behavioral Neuroscience Society*, Dublin, Ireland

**Galea, L.A.M.** (July, 2013). Stressed and Depressed: investigating the role of corticosterone during the postpartum on maternal neuroplasticity. *Parental Brain Conference*, Regensburg, Germany

**Galea, L.A.M.** (October, 2013). Sex and stress hormones: effects on mental health. *European College of Neuropsychopharmacology (ECNP)*, Barcelona, Spain.

\***Galea, L.A.M.** (November, 2013). Aging and the female brain: How hormones and experience impact brain health. Women's Brain Health Initiative, Vancouver, BC, CANADA. [Lay audience]

\***60. Galea, L.A.M.** (November, 2013). Aging and the female brain: How hormones and experience impact brain health. Alzheimer Society of BC, Vancouver, BC, CANADA. [Lay audience]

**Galea, L.A.M.** (March 2014). Commentary: Why sex matters for brain health. Brain Matters, Vancouver, BC, CANADA.

**Galea, L.A.M.** (March 2014). Stress and Sex Hormones Across the Lifespan in relation to Mental Health. Clinical Brown Bag, Vancouver, BC, CANADA.

**Galea, L.A.M.** (April, 2014). Why Sex Matters for Healthy Brain Aging. Distinguished Speakers Lecture Series. University of Southern California, Los Angeles, CA, USA

**Galea, L.A.M.** (April, 2014). Girl Brains versus Boy Brains: Why Sex Matters for Brain Health. UBC Neuroscience Retreat, Whistler, BC, CANADA.

**Galea, L.A.M.** (May, 2014). Sex and Stress Hormone Effects in Animal Models of Postpartum Depression. Talk during Symposium entitled Sex-Hormone Fluctuations as a Risk Model for Postpartum Mood Disorders at *Society for Biological Psychiatry*, New York, NY, USA.

**Galea, L.A.M.** (August, 2014). Hippocampal neurogenesis and cognition: Why sex, hormones and experience matter. *American Psychological Association*, Washington, DC, USA.

**Galea, L.A.M.** (September, 2014). Estrogens and Cognition: The good, the bad and the ugly. Pavlovian Society, Seattle, Washington, USA.

**Galea, L.A.M.** (November, 2014). Why sex matters for Healthy Brain Aging. Colloquium at Colby College, Maine, USA

**Galea, L.A.M.** (November, 2014). Presenter at Workshop: Successful Career Advancement through Networking: Is It Who You Know? *Society for Neuroscience*, Washington, DC, USA.

**70. Galea, L.A.M.** (November, 2014). Pregnancy and Motherhood: effects on cognitive and mental health. Research Rounds at BC Women's Hospital, Vancouver, BC. CANADA

**\*Galea, L.A.M.** (November, 2014). Pregnancy and Motherhood: effects on cognitive and mental health. Lay talk for mCentred, Vancouver, BC, CANADA

**Galea, L.A.M.** (April, 2015). Estrogens, androgens and healthy brain aging. Symposium speaker on Sex Differences in Neurocognitive Aging at *The Organization for the Study of Sex Differences* annual meeting in Stanford, USA

**Galea, L.A.M.** (May, 2015). Estrogens, memory, neuroplasticity and aging: the good, the bad and the ugly. *Canadian Association for Neuroscience*, Vancouver, BC, CANADA

**Galea, L.A.M.** (June, 2015). Stressed and Depressed: How sex modifies the relationship to hippocampal neurogenesis. *International Behavioral Neuroscience Society (IBNS)*, Victoria, BC, CANADA

**Galea, L.A.M.** (June, 2015). I am not Karyn Frick. Estrogens: the good, the bad and the ugly. *International Behavioral Neuroscience Society (IBNS)*, Victoria, BC, CANADA

**Galea, L.A.M.** (June, 2015). Caveats and pitfalls for studying the influence of sex and sex hormones in neuroscience. *International Behavioral Neuroscience Society*, Victoria, BC, CANADA

\***Galea, L.A.M.** (June, 2015). Of Mice and Men...and Women: Why sex matters for brain health. Public talk on Women in Neuroscience, Centre for Brain Health, UBC, Vancouver, BC, CANADA

**Galea, L.A.M.** (November, 2015). Stressed and Depressed: Why sex and hormones matter for brain health. Wayne State University, Detroit MI, USA

**Galea, L.A.M., Gobinath A., Workman, JM.** (November, 2015). Pharmacological and non-pharmacological interventions in an animal model of postpartum depression. *Biennial Perinatal Mental Health Conference*, Chicago, IL, USA

\***80. Galea, L.A.M.** (February, 2016). Depression in men and women. Public Talk: UBC Mental Health Awareness Club, Vancouver, BC, CANADA

**Galea, L.A.M.** (April, 2016). What can we learn from Sex and Gender Differences in Depression? **First Annual Women's Health Research Symposium: Celebrating Excellence, Shaping the Future through Collaboration and Capacity Building.** Women's Health Research Institute, Vancouver, BC, CANADA.

**Galea, L.A.M.** (May, 2016). Why Sex Matters for Brain Health. Celebrating 20 years of Neuroscience at University of Western Ontario, London, ON, CANADA.

**Galea, L.A.M.** (June, 2016). Sex differences in pattern separation and spatial learning: relationship to neurogenesis. *International Behavioral Neuroscience Society*, Budapest, HUNGARY.

**Galea, L.A.M.** (July, 2016). Sex and Gender Differences in Depression: Relationship to Neurogenesis and treatment. Symposium entitled "Neuronal stem cells in mental health: Will neurogenesis and iPS cells give us the antidepressants of the future?" at the *British Association for Psychopharmacology* summer meeting, Brighton, UK.

**Galea, L.A.M.** (August, 2016) Depression and hippocampal plasticity: what do estrogens have to do with it? Lessons for treatment with aromatase inhibitors in women. In the symposium entitled: What should behavioral neuroendocrinologists be telling breast oncologists about hormones and the brain? *Society for Behavioral Neuroendocrinology*, Montreal, QC, CANADA

\***Galea, L.A.M.** (November, 2016). Is Memory Decline a Normal Part of Aging. Public Talk: Hip, Health and Mobility, Vancouver, BC, CANADA [**Lay Audience**]

**Galea, L.A.M.** (November, 2016). Estrogens, memory, neuroplasticity and aging: the good, the bad and the ugly. Colloquium at Institute of Healthy Aging, University of North Texas Health Science Center, Fort Worth, TX, USA

**Galea, L.A.M.** (February, 2017). Good news and Bad news: The effects of Estrogens on Cognition and Neuroplasticity during Aging. *Steroids and the Nervous System*, Torino, Italy.

**Galea, L.A.M.** (March, 2017). Stressed and Depressed: Why sex and hormones matter for brain health. Colloquium speaker at Institute for Behavioral Medicine Research's Speaker Series, Ohio State University, Columbus, Ohio USA .

**\*90. Galea, L.A.M.** (March, 2017). This is your Brain on Sex. Guest speaker at Telus World of Science for Brain Awareness Week, Vancouver, CANADA.

**Galea, L.A.M.** (March, 2017). Stressed and Depressed: Why sex and hormones matter for brain health. Colloquium speaker for Neuroscience Program. Michigan State University, Lansing, MI USA

**Galea, L.A.M.** (May, 2017). Why Sex Matters for Brain Health. Friedman Brain Institute translational neuroscience seminar series at Mount Sinai, New York, NY, USA.

**Galea, L.A.M.** (May, 2017). Sex Differences in the Regulation of Adult Neurogenesis. Symposium at Organization for the Study of Sex Differences, Montreal, QC, CANADA.

**Galea, L.A.M.** (May, 2017). Sex differences in Stress Reactivity and Neurogenesis during Development and Adolescence. Symposium at Organization for the Study of Sex Differences, Montreal, QC, CANADA.

**\*Galea, L.A.M.** (September, 2017). Aging, Menopause and Memory: Aging Well for Women. Public talk at Italian Culture Club, Vancouver BC CANADA. [lay]

**Galea, L.A.M.** (October, 2017). Stressed and Depressed: Why sex and hormones matter for brain health. Seminar at University of Cincinnati, Ohio USA.

**#Galea, L.A.M.** (October, 2017). Why Sex Matters for Brain Health. Distinguished Lecturer, CNE Lecturer, University of Otago, Dunedin, New Zealand.

**#Galea, L.A.M.** (November, 2017). Game of Hormones: Why Sex Matters for Brain Health. Keynote Speaker, Comparative Cognition, Vancouver BC CANADA.

**Galea, L.A.M.** (December, 2017). Stressed and Depressed: Why sex and hormones matter for brain health. Colloquium speaker for Department of Integrative Physiology & Neuroscience, Washington State University. Pullman, WA, USA.

**100. #Galea, L.A.M.** (January, 2018). Game of Hormones: Why Sex Matters for Brain Health. Keynote Speaker, Undergraduate Neuroscience Conference, UBC, Vancouver BC, CANADA.

**Galea, L.A.M.** (March, 2018). Stress, Depression and the Game of Hormones: Why sex and hormones matter for brain health. Seminar University of Victoria, Victoria BC, CANADA.

**Galea, L.A.M.** (April, 2018). Why Sex Matters for Brain Health. Seminar, Tufts University Boston, MA, USA.

**\*Galea, L.A.M.** (April, 2018). Why Sex Matters for Brain Health. Public talk to Probus West Vancouver

**#Galea, L.A.M.** (April, 2018). Why Sex Matters for Brain Health. Seminar, Bogata, Columbia

**\*Galea, L.A.M.** (May, 2018). Debunking the Modern Mythology of the Brain. Public talk with Julie Robillard in the Universe of the Brain Lecture Series, H.R. MacMillan Space Centre, Vancouver

**Galea, L.A.M., Yagi S** (June, 2018). Is More Always Better? Optimizing neuroplasticity for cognition in males and females. International Behavioral Neuroscience Society, Boca Raton, FL, USA.

**Galea, L.A.M.** (July, 2018). The short and long of it: Why Pregnancy and Motherhood matters for brain Health. Symposium at Parental Brain

**Galea, L.A.M.** (July, 2018). Sex differences in affective behaviors and neurogenesis. Symposium talk at Society for Behavioral Neuroendocrinology

**Galea, L.A.M.** (September, 2018). The short and long of it: Why Pregnancy and Motherhood matters for brain Health. Sun Yat-Sen University Second Affiliated Hospital. Guangzhou, China.

**Galea, L.A.M.** (September, 2018). Stress, Depression and the Game of Hormones. Sun Yat-Sen University SYSU-UBC Symposium, Guangzhou, China.

**Galea, L.A.M.** (December, 2018). Why Sex Matters for Brain Health. Seminar University of Ottawa, Ottawa, Canada.

**Galea, L.A.M.** (January, 2019). Long-Term Effects of Motherhood on the Brain. Symposium It's All Down Hill From Here, or is it?: How Life Experiences Can Alter the Hormonal Trajectory for Risk and Resilience at the Winter Conference on Brain Research. Snowmass, Colorado, USA.

**Galea, L.A.M.** (February, 2019). Mandating the study of sex differences will NOT improve women's health. Roundtable Discussion at Steroids and the Nervous System. Torino, Italy.

**Galea, L.A.M.** (March, 2019). Why Sex Matters for Brain Health. Colloquium, Kingston, ON .

(e) *Other Presentations* (**underlining denotes student under my supervision**)

#### Presentations to Scientific Societies

Galea, L. A. M., Ossenkopp, K.-P., & Kavaliers, M. (1992, June). Developmental changes in spatial learning in preweaning meadow voles. *Animal Behaviour Abstracts*, Kingston, ON.

Galea, L. A. M., Kavaliers, M., & Ossenkopp, K.-P. (1992, June). Spatial Learning in young meadow voles. *Canadian Society for Brain, Behaviour and Cognitive Neuroscience*, Quebec City, QC.

Galea, L. A. M., Kinsella, D., Kavaliers, M., Ossenkopp, K.-P., & Boon, F. (1993, June). A new method for measuring scentmarking behaviour. *Canadian Society for Brain, Behaviour, and Cognitive Science*, Toronto, ON.

Kinsella, D., Galea, L. A. M., Kavaliers, M., & Ossenkopp, K.-P. (1993, June). Effects of predator and novel odours on the spontaneous locomotor activity of meadow voles. *Canadian Society for Brain, Behaviour and Cognitive Neuroscience*, Toronto, ON.

Kavaliers, M. & Galea, L. A. M. (1993, June). Spatial learning in meadow voles using an outdoor water-maze task. *Canadian Society for Brain, Behaviour and Cognitive Neuroscience*, Toronto, ON.



Splinter, A. L., Galea, L. A. M., Kavaliers, M., & Ossenkopp, K.-P. (1993, June). Effects of live-trap restraint on motor activity levels and scentmarking in meadow voles. *Canadian Society for Brain, Behaviour and Cognitive Neuroscience*, Toronto, ON.

Kavaliers, M., Wiebe, J., & Galea, L. A. M. (1993, May). Anxiolytic effects of the neurosteroid, 3 $\alpha$ -Hydroxy-4-pregnen-20-one (3 $\alpha$ HP). *International Behavioral Neuroscience Society Abstracts*, Tampa Bay, FLA.

Kavaliers, M., Innes, D. L., Kinsella, D., **Galea, L. A. M.**, Ossenkopp, K.-P. & Prato, F. S. (1994, February). Brief exposure to a 60-Hz magnetic field improves spatial learning and blocks the inhibitory effects of endogenous opioids in deer mice. *Bioelectromagnetics Society Abstracts*, Atlanta, GA.

**Galea, L. A. M.**, Wilkie, D. M., Sampath, S., Vrana, A. P. & Phelps, M. T. (1998, June). Differences in spatial performance across the gestational length of pregnancy in Long-Evans rates. *Brain, Behaviour and Cognitive Science*.

Phelps, M. T., Braaksma, D., Masini, L., Wilkie, D. M. & **Galea, L. A. M.** (1998, June). Fluctuations in cognitive performance in pregnant females. *Brain, Behaviour and Cognitive Science*.

Falconer, E. M., Chung, L. & **Galea, L. A. M.** (1999, June). Sex differences in the expression of defensive behaviours in response to exposure to predator odour. *Brain, Behaviour and Cognitive Science*. #187

Paine, T. A. and **Galea, L.A.M.** (1999, June). Administration of estradiol impairs performance on a spatial version of the radial arm maze. *Brain, Behaviour and Cognitive Science*. #186.

Ormerod, B. K. & **Galea, L. A. M.** (1999, June). Photoperiod and reproductive status influence cell proliferation rate in the dentate gyrus of adult meadow voles, *Microtus pennsylvanicus*. *Brain, Behaviour and Cognitive Science*. #188

Holmes, M.M., Piaseczna, M.A., Paine, T.A. and **Galea, L.A.M.** (2000, May). Differential Effects of Estradiol on learning: Facilitation in striatal learning and disruption in hippocampal and amygdala learning. *International Behavioral Development Symposium*, Minot North Dakota, p.77.

Ormerod, B.K. and **Galea L.A.M.** (2001). Estrogen influences the birth and survival of new neurons in the hippocampus of adult rodents. *Brain, Behaviour and Cognitive Science*, p.59.

Holmes, M.M., Wide, J.K., Dauncey, D., Choi, J. and **Galea, L.A.M.** (2001). Possible dose dependent effect of estradiol on hippocampal dependent spatial learning *Brain, Behaviour and Cognitive Science*, p.47.

Falconer, E.M., and **Galea, L.A.M.** (2001). Estradiol regulates the stress-induced suppression of cell proliferation in female rats. *Brain, Behaviour and Cognitive Science*, p. 44.

Ormerod, B. K., Witthford, M. and **Galea, L. A. M.** (2001). Estradiol enhances the survival of 6-10 day old neurons within the hippocampus of adult male meadow voles. Stem Cells in the Mammalian Brain, 4<sup>th</sup> Brain Research Interactive Symposium. San Diego, CA.

- Falconer, E.M., and **Galea, L.A.M.** (2002). Estradiol regulates the stress-induced suppression of cell death in female rats. *Brain, Behaviour and Cognitive Science*.
20. Wide, J.K., Hanratty, K.M., Ting J.Y. and **Galea, L.A.M.** (2002). Sinusoidal effects of estradiol on working memory of adult female rats. *Brain, Behaviour and Cognitive Science*.
- Ormerod, B.K. and **Galea L.A.M.** (2002). Estradiol increases the number of 6-10 day old hippocampal neurons and improves memory in adult male rodents. *Brain, Behaviour and Cognitive Science*.
- Lee, T. T-Y., **Galea, L.A.M.**(2002). High-level estradiol impairs spatial performance and increases “depressive-like” symptoms in female meadow voles. *Brain, Behaviour and Cognitive Science*
- Nagy, A., Ormerod, B.K. and **Galea, L.A.M.** (2003). Enhanced neurogenesis via estradiol is mediated through the ER. *Brain, Behaviour and Cognitive Science*.
- Pawluski, J., Mazzucco, C.M. and **Galea, L.A.M.** (2003). Parity does not influence hippocampal CA3 morphology. *Brain, Behaviour and Cognitive Science*
- Pawluski, J. L., Mazzucco, C.M., and **Galea L.A.M.** (2003) Previous pregnancy influences ca1 and ca3 hippocampal morphology. *Southern Ontario Neuroscience Association*.
- Kambo, J.S., Mazzucco, C.A., Nagy, A.I., Galea, L.A.M.(2003). Effects of subchronic predator odour stress on neurogenesis and behaviour in the adult male rat. *Southern Ontario Neuroscience Association*.
- de Medeiros, C.B., Chakungal, J., Nagy, A.I., Mazzucco, C.A., Galea, L.A.M.(2003). Exposure to predator odour stress inhibits learning in ovariectomised rats. *Southern Ontario Neuroscience Association*.
- Mazzucco, C.A., Walker, H.A. and Galea, L.A.M. (2004). Estradiol enhanced adult hippocampal neurogenesis is mediated by both ER alpha and beta in the female rat. *Society for Behavioural Neuroendocrinology*.
- Sinopoli, K., Floresco, S.B. and **Galea, L.A.M.** (2004). Alterations in estrogen levels do not appear to affect working memory on a PFC-dependent task. *Society for Behavioural Neuroendocrinology*.
- Pawluski, J.L., Walker, S.K., Dubroy, M.A., and **Galea, L.A.M.** (2004). Primiparous and multiparous rats exhibit facilitated reference memory in the working/reference version of the radial arm maze. *Society for Behavioural Neuroendocrinology*.
- Leiblich, S., Pawluski, J.L., Shum, R., **Galea, L.A.M.** (2005). Estradiol affects cell proliferation in the dentate gyrus differentially in adult male and female rats. *Synapse05*
- Pawluski, J.L., Vanderbyl, B., Ragan K., **Galea, L.A.M.** (2005) Primiparous, but not multiparous, rats exhibit facilitated working memory long after the time of mothering. *Brain, Behavior and Cognitive Science*.

Pawluski, J.L., Barakauskas, V.E. and Galea, L.A.M. (2005) Estrogen receptor alpha expression is decreased in the ca3 region of the dorsal hippocampus in late pregnancy. *Society for Behavioral Neuroendocrinology*.

Spritzer, M.D. and Galea, L.A.M. (2005). Androgens enhance cell survival but not cell proliferation in the dentate gyrus of adult male rats. *Society for Behavioral Neuroendocrinology*.

Brummelte, S., Pawluski, J.L., Galea, L.A.M. (2005) A possible model of post-partum depression based on high post-partum levels of corticosterone. *Society for Behavioral Neuroendocrinology*.

Spritzer, M.D. and Galea, L.A.M. (2005). Androgens enhance cell survival but not cell proliferation in the dentate gyrus of adult male rats. *International Behavioral Development Symposium*, Minot North Dakota.

Barker, J.M., Galea, L.A.M. (2006). Chronic estradiol affects different aspects of adult hippocampal neurogenesis in female, but not male, rats. *International Behavioral Neuroscience Society*.

Pawluski, J.L., Barha, C. Galea, L.A.M. (2006). Maternal care alters anxious behavior in male, but not female, offspring. *International Behavioral Neuroscience Society*.

Barha, C., Pawluski, J.L., and Galea, L.A.M. (2006). Variations in maternal care alter corticosterone response to stress in male, but not female, offspring. *International Behavioral Neuroscience Society*.

40. Spritzer, M.D., Weinberg, A., Viau, V., and Galea, L.A.M. (2006). Sexual interaction prior to acute predator odor stress causes increased hippocampal cell proliferation and affects defensive behavior among male rats. *International Behavioral Neuroscience Society*.

Sliwowska, J.H., Barker, J.M., Barha, C., Ellis, L., Yu, W., Galea, L.A.M. and Weinberg, J. (2006). Altered hippocampal neurogenesis in adult male rats after prenatal ethanol exposure. *International Congress of Neuroendocrinology*.

Pawluski, J.L., Galea, L.A.M. (2006). Hippocampal neurogenesis is altered during motherhood. *International Congress of Neuroendocrinology*

Pawluski J.L., Walker C.A., Galea L.A.M. (2007). Adult hippocampal neurogenesis is altered with maternal experience. *International Meeting on Steroids and the Nervous System* presented in Torino, Italy.

Barha, C., Galea, L.A.M. (2007) Hippocampal cell proliferation is differentially regulated by estrogens. *Brain, Behaviour and Cognitive Science*.

Weinberg, A., Walker, C.A., Lieblich, S., Spritzer, M.D., Galea, L.A.M. (2007). Strain and Housing Conditions affect Expression of Defensive Behaviours in Adult Male Rats. *Brain, Behaviour and Cognitive Science*.

Pawluski, J.L., Galea L.A.M. The effect of pregnancy and reproductive experience on hippocampal neurogenesis. Poster presented at the *Parental Brain Conference*, June 7-10, 2007, in Boston, MA.

Pawluski, J.L., Walker, C.A., and Galea, L.A.M. (June, 2007). Adult hippocampal neurogenesis is altered with maternal experience. *Brain, Behaviour and Cognitive Science 17th Annual Meeting*, Victoria, BC.

Barker, J.M., Epp, J.R. and Galea, L.A.M. (2007) Adult hippocampal neurogenesis does not differ between free-living and captive-reared rats. *8th International Congress of Neuroethology* in Vancouver, BC.

Uban, K.A., Sliwowska, J.H., Lan, N., Zhang, X., Ellis, L., Yu, W., Galea, L.A.M., Weinberg, J. (2007). Differential effects of prenatal ethanol exposure on adult hippocampal neurogenesis and modulation of stress in female rats. *International Society for Developmental Psychobiology*, in San Diego.

Pawluski JL, Galea LAM, Brain U, Papsdorf M, Oberlander, TF. (2008). Prenatal exposure to serotonin reuptake inhibitors, maternal depressed mood and neonatal s100B levels. *Western Perinatal Research Meeting*

Brummelte, S., Winstanley, C.A., Galea LAM, (2008). A possible new animal model of post partum stress and depression: effects of corticosterone on maternal mood, care and neurogenesis and the associated consequences for the outcome of the offspring. *FENS*

Brummelte, S., Galea LAM, (2009). Like Mother, like daughter (and son). Elevated levels of stress hormones (corticosterone) in rats dams are transferred through the breastmilk to the offspring in a time-dependent matter. *Canadian Association for Neuroscience.*

Brummelte, S., Galea LAM, (2009). Effect of high maternal corticosterone levels and enriched environment on depressive-like behaviour in the dam and outcome of male and female offspring. *Canadian Association for Neuroscience.*

Wainwright, S.R., Lieblich, S.E. Galea LAM, (2009). Role of Testicular Hormones in attenuating the effects of stress in an animal model of depression. *Canadian Association for Neuroscience.*

Crozier, T.M., Pawluski JL, Galea LAM (2009). Morphology of Lamina 2/3 and Lamina 5 Pyramidal Cells of the medial Prefrontal Cortex may be Affected by the Reproductive Experience in the Dam. *Canadian Association for Neuroscience.*

Wilson, W.L., Epp, J.R., Galea, L.A.M. (2009) The Effects of  $\beta$ -Amyloid on Neurogenesis in the Dentate Gyrus of Adult Male Rats *Canadian Association for Neuroscience.*

Epp, J.R., Haack, A., Galea, L.A.M. (2009) Differences in task difficulty during spatial learning influence the survival of new neurons in the dentate gyrus *Canadian Association for Neuroscience.*

Barha, C.K., Vekic, T. Galea, L.A.M (2009). The effects of long-term treatment with hormone replacement therapy on working and reference memory in young adult female rats. *Canadian Association for Neuroscience.*

Uban, K, Rummel, J, Li, C.M., Ghods-Sharrif, S., Floresco, S.B., Galea, L.A.M (2009). Estradiol modulates effort-based decision making in female rats. *Canadian Association for Neuroscience.*

60. Rummel J, Epp J.R., Galea, L.A.M. (2009). The Effect of Ovarian Hormones on Strategy choice in the Morris Water Task and on Neurogenesis in the Hippocampus. *German Neuroscience Society*

Charlier, T.D., Lieblich, S.E., Galea L.A.M. (2009) Steroid receptor coactivator (SRC-1) and coactivator-associated arginine methyltransferase (CARM-1) expression changes during differentiation of new cells in the dentate gyrus of adult female rats. *Nuclear Receptor Meeting Benelux 2009*, Oegstgeest, the Netherlands.

Brummelte, S., Oberlander, T.F., Devlin, A.M., Galea L.A.M. (2010). Reelin Expression in Maternal and Umbilical Cord Blood is Associated With Maternal SSRI Exposure. *Parental Brain Conference*, Edinburgh, Scotland.

Brummelte, S., Wong, J.H.K., Lieblich, S.E., Galea L.A.M. (2010). Divergent effects of early corticosterone exposure and adolescent stress on adult behavioural patterns in male and female rats *International Society of Behavioral Neuroscience*, Sardinia, Italy.

Barha, C.K., Ishrat, T., Epp, J.R., Stein, D.G., Galea L.A.M. (2010). Progesterone decreases cell proliferation induced by traumatic brain injury in adult male rats *International Society of Behavioral Neuroscience*, Sardinia, Italy.

Wong J.H.K., Brummelte, S., Lieblich, S.E., Galea L.A.M. (2010). Long-lasting Behavioural Consequences of Corticosterone Administration during the First Postpartum Period in Multiparous Dams. *International Society of Behavioral Neuroscience*, Sardinia, Italy.

Murphy, KJ, Troyer A, **Galea LAM.** (2011) Cortisol and cognition in amnesic mild cognitive impairment. *International Conference of Alzheimer's Disease International*, Toronto, Ontario.

Wainwright, S.R., Workman, J.L., Galea LAM, (2011). Testosterone shows antidepressant efficacy in a vulnerable population subjected to chronic variable stress. *International Brain Research Organization*, Florence, Italy.

Chow C., Lieblich, S. E, Epp, J. R. , Galea LAM (2012) Sex differences in spatial learning affect adult hippocampal neurogenesis but not activation of new neurons in response to memory retrieval. *Canadian Association for Neuroscience*, Vancouver, BC

Stewart, R.E., Barha, C.K., Galea LAM (2012) Chronic Administration of Estradiol, but not Estrone, Increases Hippocampal Neurogenesis and Activation of New Neurons in Response to Spatial Memory *Canadian Association for Neuroscience*, Vancouver, BC

70. Foisy, M., Roes, M.M., Lieblich, S.E., Chan MYM Galea L.A.M. (2012). Antidepressants differentially increase cell proliferation in the dentate gyrus of intact and ovariectomized adult female rats. *Canadian Association for Neuroscience*, Vancouver, BC

Brummelte S., Duarte Guterman P., Crozier T.M., Lieblich S. and Galea L.A.M. (2012). Adolescent stress hormone exposure affects hippocampal neurogenesis in male and female rats. *International Society for Behavioral Neuroscience*, Kona, Hawaii

Barha, C.K., Lieblich S., Chow, C., Galea L.A.M. (2012) The effects of estrogens on hippocampus-dependent learning and memory and neurogenesis in middle-aged female rats are dependent on previous reproductive experience. *International Society for Behavioral Neuroscience* Kona, Hawaii

Lee, TT-Y, Wainwright, SR, Hill, MN, Galea, LAM & Gorzalka, BB. (June 2013). Adolescent cannabinoid exposure sex dependently alters adult stress responsivity and amphetamine sensitization. 23rd Annual Symposium of the International Cannabinoid Research Society (Vancouver, Canada).

Workman, JL, Kitay, NF, Chow, C, Gobinath, A, Galea, LAM (2013). Fluoxetine reverses disrupted maternal care but not depressive-like behavior in a model of postpartum depression. Parental Brain Conference (Regensburg, Germany).

Workman, JL, Kitay, NF, Chow, C, Gobinath, A, Galea, LAM (2013). Effects of fluoxetine in corticosterone-induced depressive-like phenotypes in postpartum and nulliparous females *International Society for Behavioral Neuroscience*

Gobinath, A, Workman, JL, Galea, LAM (2013) Maternal antidepressant use alters brain and behaviour of male and female offspring. Parental Brain Conference (Regensburg, Germany).

Gobinath, A, Workman, JL, Galea, LAM (2013) Maternal antidepressant use alters anxiety-like behaviour in adult male offspring. *International Society for Developmental Psychobiology*

van den Brink, C J\*; Roes, MM.\*; Lieblich, SE. Chow, C; Hamson, DK.; Galea, Liisa A.M. (2014) Premarin, reproductive experience and ovarian hormone status differentially affect spatial memory and hippocampal plasticity in middle age female rats. *Canadian Association for Neuroscience*, Montreal, QU

Gobinath, A, Workman, JL, Chow, C., Lieblich, S.E., Galea, LAM (2014) Maternal antidepressant use alters hippocampal neurogenesis throughout development in male and female offspring. *International Society for Developmental Psychobiology*, Washington DC

80. Phillips, A.A., Matin, N., West, C., Zheng, A., **Galea, L.A.M.**, Dorrance, A.M., Laher, I., Krassioukov, A.V (2014). Experimental autonomic dysreflexia impairs cerebrovascular health and cognition. *Experimental Biology* Boston, MA, USA

Gobinath, A.R., Richardson, R.J., Chow, C, Workman, J.L., Lieblich, S.E., Barr, A.M., Galea, L.A.M. (2015). Comparing the efficacy of maternal fluoxetine and exercise in a rodent model of postpartum depression: outcome of both mother and male and female offspring. *International Society for Developmental Psychobiology*

Mahmoud R, Wainwright SR, Chaiton JA, Lieblich SE, Galea LAM. (2015) Stress resilience in females is dependent on ovarian status. *International Society for Psychoneuroendocrinology.* (TRAVEL AWARD)

Kirk, E.; Thompson, B.; Barha, C.K.; **Galea, L.A.M.**; Bardi, M.; Kent, M.; Lambert, K. (2016). An investigation of maternal experience on neurobiological and behavioral responses in middle aged *International Behavioral Neuroscience Society.* Budapest, Hungary [award]

Overgaard, A., Lieblich, S.E., Richardson, R., Galea, L.A.M., Frokjaer, V.G. Behavioral and hippocampal changes across the pre- to postpartum transition within a postpartum depression model with and without the effects of a SSRI in rats. *Federation of European Neuroscience Societies*. Copenhagen, Denmark.

Mahmoud R, Chaiton JA, Chow, C., Lieblich SE, Galea L.A.M. (2016) Chronic stress resilience in female mice: contribution of intracellular estrogen receptors. *Society for Biological Psychiatry (TRAVEL AWARD)*

Gobinath, A.R., Richardson, R.J., Chow, C, Workman, J.L., Lieblich, S.E., Barr, A.M., Galea, L.A.M. (2016). Postpartum fluoxetine exposure and exercise intensity differentially affect maternal behavior and hippocampal neurogenesis in a rat model of postpartum stress. *International Society for Developmental Psychobiology (TRAVEL AWARD)*

Duarte-Guterman, P., Qiu, W., Go, K., Lieblich, SE, Casanueva, L., Galea, L.A.M. (2017) Oxytocin regulation of social behaviour and neurogenesis in adult rats: comparing two delivery methods in males and females. *Organization for the Study of Sex Differences*. Montreal Quebec

Chaiton, JA., Mahmoud, R., Lieblich, SE, Galea, L.A.M. (2017) Chronic letrozole influences hippocampal neurogenesis but not depressive-like behaviour in middle-aged, female mice. *Organization for the Study of Sex Differences*. Montreal Quebec

Barha CK, **Galea, L.A.M.** Ambrose-Liu, TL(2017) Sex-specific effects of exercise on cognition: Evidence from clinical and epidemiological data. *Organization for the Study of Sex Differences*. Montreal Quebec

90. Mahmoud, R., Chaiton, JA., Lieblich, SE, Galea, L.A.M. (May 2017). Transient and persistent effects of maternal experience on the hippocampal neurogenic niche and the inflammatory milieu *Organization for the Study of Sex Differences*. Montreal Quebec

Gobinath, A.R., Richardson, R.J., Chow, C, Workman, J.L., Lieblich, S.E., Barr, A.M., Galea, L.A.M. (2017) Comparing the antidepressant efficacy of voluntary running and fluoxetine in a rat model of postpartum depression: effects on maternal care, depressive-like behavior, and hippocampal neurogenesis. *International Behavioral Neuroscience Society*. Hiroshima, Japan [travel award]

Yagi, S., Wainwright, S.R., Floresco, S.B, Galea, L.A.M. (June 2017) Sex differences and modulation by sex hormones of risk-based decision making with acute administration of amphetamine. *International Behavioral Neuroscience Society*. Hiroshima, Japan [travel award]

Overgaard, A., Henriksen, B.L.E., Galea, L.A.M., Frokjaer, V.G. (2017) Brain serotonin receptor 4 is decreased after paroxetine treatment in a rat model of perinatal depression. *International Society for Psychoneuroendocrinology*, Zurich, Switzerland.

Baglot S, Fung C, Ubi P, Morgan E, Lieblich S, Yu W, Galea L.A.M., Weinberg J. Modulating Role of Oxytocin on Stress Response and Neurobehavioral Outcomes Following Prenatal Alcohol Exposure. *40th Annual Research Society on Alcoholism Conference*, Colorado, USA, June 24-28 2017

Mahmoud R, Chaiton JA, Chow, C, Liebllich SE, Galea LAM. (2017). Selective activation of estrogen receptors alpha and beta under chronic stress: implications for depressive-like phenotypes. *Stress: Past, Present and Future*. Princeton, NJ, USA [travel award]

Tai, D., Yagi, S., Galea LAM (2018). Examining possible sex differences in maturation rate of new neurons in adult rats. *Canadian Association for Neuroscience*, Vancouver Canada.

Qiu W, Go K, Mahmoud R, Duarte-Guterman P, Gobinath, AR, Black, N., Galea LAM (2018). Fluoxetine increased IL-1B in the maternal hippocampus and reversed maternal care deficits with postpartum CORT but not depressive-like behaviour. *Canadian Association for Neuroscience*, Vancouver Canada.

Minielly, N., Qiu, W., Go, K., Black, N, Splinter, JEJ, Duarte-Guterman, P., Galea, L.A.M. (2018) Pre-adolescent Oxytocin Treatment increases social investigation dependent on Sex and Maternal Fluoxetine Exposure *Parental Brain* Toronto, ON.

Mahmoud, R., Chaiton, JA., Liebllich, SE, Galea, L.A.M. (2018) Early and late effects of motherhood on hippocampal neurogenesis, microglia, and the cytokine milieu *Society for Behavioral Neuroendocrinology*, Toronto, ON [travel award]

Duarte-Guterman, P., Qiu, W., Go, K., Casanueva, L., Splinter, JEJ, Perez E, Galea, L.A.M. (2018) Oxytocin increases social behaviour despite sex-dependent effects on adult hippocampal neurogenesis. *International Congress of Neuroendocrinology* Toronto, ON

Duarte-Guterman P; Liebllich SE; Mahmoud R; Ibrahim M; Galea LAM (2018). The short- and long-term impact of motherhood on hippocampal gene expression and inflammation *Parental Brain* Toronto, ON. [travel award]

Qiu,W, Go, K, Fernando, C, Albert, A, Hill, JE, Galea LAM. (2018) Maternal postpartum SSRI influences on offspring microbiome and neuroinflammation in sex-specific manner. *International Society for Developmental Psychobiology*, San Diego [travel award]

(f) *Other*

(g) *Conference Participation (Organizer, Keynote Speaker, etc.)*

Conference Organizer for Neurogenesis in Natural Populations, Toronto, ON, May 2000.

Symposium organizer for Hormones, Plasticity and Behaviour, BBCS, Vancouver, BC, May 2002

Symposium co-organizer for Neuroplasticity and Behaviour, BBCS, Vancouver, BC, May 2002

Plenary Speaker, ‘Sex Matters: Gonadal Hormone regulation of Spatial Learning and Hippocampal Neurogenesis’ at the *Association for the Study of Animal Behaviour*, London, England. 2007

Symposium co-organizer for Steroid Hormones and Depression: What we can learn from animal models and Gender differences, ISPNE, San Francisco, USA July 2009

Scientific Program committee for Canadian Association for Neuroscience in 2008, 2013.2014

Plenary Speaker, “Why sex and sex hormones matter for brain health: steroid hormone modulation of cognition, emotion and hippocampal neuroplasticity” for 7th International Meeting on: "Steroids and Nervous System" Torino, Italy.



Co-Organizer for Neuroscience Section of the Canadian National Perinatal Research Meeting, Banff, 2014

Local Organizing committee for International Behavioral Neuroscience Society, Victoria, BC, June 2015

Symposium co-organizer for Neurogenesis: Sex, drugs and memory – what’s neurogenesis have to do with it? International Behavioral Neuroscience Society, Victoria, BC, June 2015

Symposium co-organizer for Why sex hormones matter for behavior and brain health, International Behavioral Neuroscience Society, Victoria, BC, June 2015

Symposium co-organizer for Sex differences in the brain: implications for behavioral and biomedical research, International Behavioral Neuroscience Society, Budapest Hungary, June 2016

Symposium co-organizer for Estrogens across the lifespan: rapid and chronic influences of estrogens on structural plasticity, memory and disease, Steroids and the Nervous System, Torino, Italy, February 2017

Keynote: Comparative Cognition, 2017

Keynote: Neuroscience Undergraduate Conference UBC, January 2018

Conference Organizer Parental Brain, Toronto, ON, July 2018.

## **10. SERVICE TO THE UNIVERSITY**

(a) *Memberships on committees, including offices held and dates*

### **UBC**

#### Departmental Service

Statistical Consulting, 1997-present

B.Sc. Advisor, 1997-2000

Animal Care Coordinator, 1998-2001

Teaching Evaluation Committee, 1998-2002,

Teaching Evaluation Chair- 2009-2012

Strategic Planning Committee, 2000

Psychology Faculty Search Committee, 2000, 2002, 2004

Recognition Committee, 2006 (Chair)-2008, 2010-2011

Graduate Admissions, 2010

Graduate Scholarships 2009

Area Coordinator, 2006-2012

Alumni Relations 2011-2012

Mentoring Committee (Chair) 2013-

#### University Service

Served on Faculty search committee for Anthropology appointment, 1999-2000

Connect UBC, Lecture to high school students about Psychology, 1998

Faculty Mentor for First Year Students at UBC, 2000

Seed Pilot Grant review committee for HeeRO 2007

Animal Care Committee, 2008-2014

Study Leave Review Committee 2009, 2010

Workshop for CIHR Applicants- 2005, 2006, 2010, 2011

Centre for Disease Modelling Steering Committee 2011-2015

Neuroscience Undergraduate Program 2013-

Neuroscience Graduate student Awards 2012-

Internal review for CIHR Banting Awards 2014

Internal review committee for CIHR Foundation Grants 2014  
 Faculty of Arts representative for Faculty of Medicine 2015-  
 Distinguished University Professor Panel 2017  
 Director, Graduate Program in Neuroscience 2017-  
 Committee member President's Excellence Research Chair in Brain Health, 2017-18  
 Committee Member for Louise Brown Chair in Psychiatry, 2018  
 Internal Review for CFI grants, 2018

## **University of Toronto**

### University Service

Served on the Search committee for V.P., Academic at University of Toronto at Mississauga, 2002  
 Served on the Teaching Excellence Committee, 2003  
 Chair, Animal Care Committee, University of Toronto at Mississauga, 2003

### Departmental Service

Psychology Faculty Search Committee, 2003

## *b) Other service, including dates*

Chair, Liisa Holsti, Ph.D. dissertation, April 2004  
 Chair, Michelle Wong, Ph.D. dissertation, 2006  
 Chair, Sara Weinstein, Ph.D. dissertation, 2007  
 Chair, Czesia Fuks Geddes, Ph.D. dissertation, May 2008  
 Chair, Juliana E Negreiros, Ph.D. dissertation, 2014  
 Chair, Tsung-Sheng (John) Wu Ph.D. (Reproductive and Developmental Sciences) 2015  
 Chair, Sarah Loudai, MSc. Defense, Experimental Medicine, 2018  
 Committee Member, Kara Gabriel, Ph.D. Psychology, dissertation, 2001  
 Committee Member, Alexis Kennedy, Ph.D. Psychology dissertation, 2001  
 Committee Member, Michelle Yik, Ph.D. Psychology dissertation, 2001  
 Committee Member, Jaqueline Rose, Ph.D. Psychology dissertation, 2005  
 Committee Member, Giada Vacca, M.Sc. Neuroscience, 2005  
 Committee Member, Eunice Chen, M.Sc. Biology, 2006  
 Committee Member, Brenda Bingham, Ph.D. Neuroscience, 2006-2010  
 Committee Member, Alina Webber, M.Sc. Neuroscience, 2006  
 Committee Member, Daveleena Pradhan, M.Sc. Zoology, 2007  
 Committee Member, Ryan O'Neill, M.Sc. Cellular Physiology, 2007  
 Committee Member, Jeanette Evans, M.Sc. Neuroscience, 2008  
 Committee Member, Amit Shah, M.Sc. Neuroscience, 2008  
 Committee Member, Kim Schmidt, M.Sc. Neuroscience, 2008  
 Committee Member, Sarvin Ghods-Sharifi, M.Sc. Neuroscience, 2009  
 Committee Member, Amy Newman, Neuroscience PhD, 2009.  
 Committee Member, Kelly Butts, PhD Neuroscience, 2008-2013  
 Committee Member Jillian Satin, Psychology, 2007  
 Committee Member, Ingrid Price, Ph.D. Psychology, dissertation 2001  
 Committee Member, Andrew Moll, Neuroscience 2008-  
 Committee Member, Anna Poon, Neuroscience 2009-2014  
 Committee Member, Brennan Eadie, PhD MD, Neuroscience 2010

Committee Member, Swetha Popuri, M.Sc.Neuroscience 2010-2011  
Committee Member, Katie Lavigne, M.Sc. Neuroscience 2011-2013  
Committee Member, Vivian Lam, M.Sc. and PhD Neuroscience 2011-2018  
Committee Member, Abigail Ferensten, M.Sc. Neuroscience 2011-  
Committee Member, Athena Chou, M.Sc., 2010-  
Committee Member, Parker Holman, Ph.D. Neuroscience 2013-  
Committee Member, Andrea Globa, Ph.D. Neuroscience 2012-2017  
Committee Member, Michael Barrus, M.A. Psychology 2014-2016  
Committee Member, Haolu Zhang, M.Sc. Neuroscience 2014-  
Committee Member, Jacqueline Ferland, PhD. Neuroscience 2012-2017  
Committee Member, Meghan Auger, PhD. Psychology 2014-2018  
Committee Member, Melanie Tremblay, PhD, Psychology 2013-2017  
Committee Member, Tiffany Lee, PhD. Psychology 2010-2015  
Committee Member, Shania Cahill, PhD. Neuroscience 2012-  
Comprehensive Committee Member, Psychology, Ingrid Price, 2000  
Comprehensive Committee Member, Medical Genetics, 2003  
Comprehensive Committee Member, Neuroscience, Martin Williamson, 2006  
Comprehensive Committee Member, Neuroscience, Brenda Bingham, 2007  
Comprehensive Committee Member, Sharmin Hossain, Neuroscience, 2008  
Comprehensive Committee Member, Brennan Eadie, MD/Ph.D.Neuroscience, 2008  
Comprehensive Committee Member, James Cooke, July 2007  
Comprehensive Committee Member, Kelly Butts, December 2010  
Comprehensive Committee Member, Fergil Mills, December 2010  
Comprehensive Committee Member, Athena Chou, June 2011  
University Examiner, Tom Kornechuk, Ph.D. Psychology dissertation, 1997  
University Examiner, C.K. Kim, Ph.D. dissertation, 1998  
University Examiner, M.Sc. Ni Lan, Neuroscience, November 2004  
University Examiner, M.Sc. Fiona Yamashita, Neuroscience, July 2004  
University Examiner, Brett Abrahms, Ph.D. Neuroscience dissertation July, 2004  
University Examiner, Ph.D. Ni Lan, Neuroscience, 2008  
University Examiner, Maggie Hanson, Ph.D. Psychology, November 2009  
University Examiner, Josh Levinston, Ph.D.Neuroscience, September 2010  
University Examiner, Andrea Titterness, Ph.D. Neuroscience dissertation, April 2010  
University Examiner, Anna Poon, Ph.D. Medical Genetics September 2012  
University Examiner, Gelareh Mazarei, Medical Genetics June 2013  
University Examiner, David McVea, Ph.D. Neuroscience MD/PhD, September 2013  
University Examiner, M.Sc., Kaia Hookenson, Neuroscience, June, 2014  
University Examiner, Kate Brown, Ph.D. Neuroscience, September 2017  
Proposal defence Cinnamon Stettler, Psychology 2004  
Area Examiner, Matt Hill, PhD. Psychology, May 2008  
Area Examiner, Carla Seipp, Ph.D. Psychology, May 2008  
Area Examiner, Marci Regambal, Ph.D. Psychology, November 2008  
Area Examiner, Emma Buchtel, Ph.D. Psychology, March, 2009  
Area Examiner, Catherine Rawn, Ph.D. Psychology, March, 2009  
Area Examiner, Maggie Hanson, Ph.D. Psychology, June 2009  
Area Examiner, Janet Mah, Ph.D. Psychology, November 2009  
Area Examiner and Chair, Teresa Marin PhD, Psychology, July 2010  
Examiner, Pamela Parkinson, M.Sc.Pathology and Laboratory Medicine, April 2008  
Examiner, Elysia Adams, M.Sc. Neuroscience, April, 2009

Examiner, Opeyemi Banjo, M.Sc.Neuroscience, June 2009  
 Examiner, Camila Zborovszky, M.Sc.Neuroscience, March 2011  
 Committee Member and Examiner, Jade Tong, M.Sc. Neuroscience June 2010  
 Examiner and Chair M.Sc. Defense, Domenico Di Curzio, Neuroscience, October, 2009

## 11. **SERVICE TO THE COMMUNITY**

### (a) *Memberships on scholarly societies, including offices held and dates*

Member of Society for Neuroscience, April 1991  
 Member of Brain, Behavior & Cognitive Science, 1991-2002  
 Member of Canadian Association for Neuroscience, 2002-  
 Advocacy Member 2017-  
 Member of Society for Behavioral Neuroendocrinology, 2001-  
 Program Committee 2017-  
 Member of Organization for the Study of Sex Differences (OSSD) 2014-  
 Elected Council Member, OSSD 2016-2019  
 Member of International Behavioral Neuroscience Society (IBNS) 2010-  
 Elected Canadian Council Member for IBNS

### (b) *Memberships on other societies, including offices held and dates*

### (c) *Memberships on scholarly committees, including offices held and dates*

NSERC Scholarships and Fellowships Committee (1997-1998)  
 Invited to serve on the NSERC Scholarships and Fellowships Committee (1998-1999) –  
 declined due to maternity leave  
 CIHR peer-review committee for BCA (Biological and Clinical Aspects of Aging – 2002-2005)  
 CIHR – Scientific Officer - SOW (Institute of Gender and Health/Ontario Women's Health  
 Council – Senior Investigator Research Chair), 2009-2010  
 NSERC – Peer Review Committee EG-1502 (2009-2012)  
 NIH - Neuroendocrinology, Neuroimmunology and Behavior (NNB) ad hoc Study Section June  
 2010, January 2011  
 NSERC RTI 2014 (declined)  
 CIHR-IGH – Excellence in Research and Travel Awards 2014  
 CIHR – IGH – Scientific Advisory Group 2014  
 NIH – Neuroendocrinology, Neuroimmunology Rhythms and Sleep (NNRS) member (2013-  
 2017)  
 NeuroDevNet 2015 (declined) – Graduate Fellowships committee  
 Scientific Advisory Board – Women's Research Health Institute (WHRI) 2017-  
 Asked to serve CIHR peer-review committee for BSA 2017, 2018 but was uninvited/declined  
 October 2017  
 CIHR College of Reviewers 2017  
 Chair of Education Committee, Organization for Study of Sex Differences 2018-  
 Co-Chair of Equity, Inclusion and Diversity Committee, Canadian Association for Neuroscience,  
 2018-  
 Institute Advisory Board, IGH, CIHR 2018-

### (d) *Memberships on other committees, including offices held and dates*

*(e) Editorships (list journal and dates)*

Chief Editor, *Frontiers in Neuroendocrinology* (IF: 9.432) – February 2016-January 2022  
 Review Editor, *eNeuro*, October 2014-  
 Section Editor, *Neuroscience*, January 2010-December 2016 (dealing with over 100ms/year)  
 Review Editor, *Frontiers in Neurogenesis*, October 2009-2014

Editorial Board, *Endocrinology*, January 2011-2014 (2/month)  
 Editorial Board, *Hormones and Behavior* 2015-  
 Editorial Board – *Neuroscience* 2017-

Guest Editor, *Frontiers in Neuroendocrinology* (IF: 8.852) – Special Issue on Hormonal Regulation of Neurogenesis: Implications for Disease for issue to be published June 2016.

*(f) Reviewer (journal, agency, etc. including dates) – not an exhaustive list*

## Journals:

American Journal of Gynaecology, 2010  
 Animal Behaviour, 2003, 2008  
 BJOG, 2011  
 British Journal of Psychiatry, 2013  
 Brain Research, 2000, 2004, 2005, 2006, 2007, 2008(3)  
 Brain Research Bulletin, 2004  
 Biological Psychiatry, 2006, 2014, 2015, 2016, 2017  
 Brain Research Reviews, 2007  
 Behavioral Brain Research, 2005, 2006, 2008, 2009  
 Biochimica et Biophysica Acta (BBA - General Subjects) 2009  
 Biological Psychology 2006, 2008  
 Behavioral Neuroscience, 1996, 1998, 1999(2), 2000, 2003, 2011  
 Developmental Neurobiology, 2007  
 eNeuro 2016(5), 2017 (6), 2018  
 Expert Reviews in Neurotherapeutics, 2009  
 Endocrinology, 2009, 2010, 2011- 2014 (40)  
 European Journal of Neuroscience, 2001, 2005, 2007, 2009  
 Frontiers in Neuroendocrinology, 2009, 2015 (3), 2016(2)  
 Genes, Brain and Behaviour, 2004  
 Hormones and Behavior, 1997, 1998, 2002, 2003, 2004, 2005(2), 2006(3), 2007, 2009, 2010, 2011, 2013(2), 2014, 2015(3), 2016 (2), 2017, 2018  
 Hippocampus, 2002, 2007, 2008, 2010, 2012, 2013,2014, 2015 (2)  
 Journal of Comparative Physiology, 1999  
 Journal of Comparative Psychology. 2003  
 Journal of Endocrinology, 2006,  
 Journal of Neuroscience Research 2016 (2)  
 Journal of Neurobiology, 2001, 2003, 2006  
 Journal of Neuroendocrinology, 2006, 2007, 2008, 2010x2, 2011, 2013 (2), 2014(2)  
 Journal of Neuroscience, 2006, 2007(2), 2009, 2011, 2012, 2013  
 Journal of Neurochemistry, 2002  
 Lancet Psychiatry 2014

Memory and Cognition, 2002  
 Molecular Psychiatry, 2011  
 Nature Neuroscience 2016  
 Nature Communications, 2017  
 Neuroscience, 1997, 1998, 1999, 2003, 2004, 2005, 2007, 2008 (2), 2009(3),  
 2014 (3), 2015(2), 2016(5). 2017  
 Neuroscience & Biobehavioral Reviews, 2017, 2018  
 Neuroscience Letters, 2009  
 Neurobiology of Learning and Memory, 2009  
 Neurobiology of Aging, 2004, 2015  
 Neuropsychopharmacology, 2002, 2005, 2009, 2012, 2013, 2014, 2015, 2017  
 Neuropsychologia, 2003  
 Plos One, 2013, 2015, 2017  
 Psychopharmacology, 2008  
 Progress in Neuro-Psychopharmacology & Biological Psychiatry, 2009, 2010  
 Proceedings of the National Academy of Sciences, 2000, 2006, 2008 (2), 2011 (2),  
 2012, 2014, 2015, 2016  
 Proceedings of the Royal Society B (biological sciences) 2009  
 Pharmacology, Biochemistry and Behavior, 1997, 2004  
 Physiology and Behavior, 1996, 1997, 2007, 2008, 2009, 2010, 2013(2)  
 Psychoneuroendocrinology, 1998, 2010, 2012, 2013(2), 2014, 2015(2), 2016 (3),  
 2017(3), 2018  
 Reproduction, 2008  
 Scientific Reports, 2016, 2017  
 Trends in Cognitive Science, 1997  
 Translational Psychiatry, 2016

**Grants:** City of New York University Grants, 1996  
 CIHR 1999, 2000, 2001, 2002, 2005, 2006, 2007, 2011, 2015  
 Heart and Stroke Foundation, 1999  
 Alzheimer Society of Canada, 1999, 2000, 2002  
 Human Frontiers Scientific Program, 2000  
 NSERC, 2001, 2003, 2005, 2006, 2007, 2008, 2013 (x2)  
 Nova Scotia Health Research Foundation, 2003  
 Scottish Rite Charitable Foundation of Canada Grant Application, 2003  
 Academic Development Fund, Univ of Western Ontario, 2003  
 Saskatchewan Health Research Foundation, 2005  
 Child's Health Program, St. John's Newfoundland, 2007  
 Alzheimer's Association (US), 2012, 2012, 2015  
 CIHR – ad hoc reviewer – Endocrinology (2011, 2015)  
 University of Milwaukee – internal grant review  
 NIH – see Committees 2011-2016  
 Netherlands Organisation for Scientific Research, 2015  
 Catalyst Grant Peer Reviewer – WHRI 2017, 2018

**Books:** Biological Psychology by James Kalat, 2000  
 Encyclopedia of Cognitive Science, 2001, 2002

Chapters: Frick, K (Ed). Oxford University Press, 2017

Tenure/Promotion:

Dr. Richard Dyck, University of Calgary  
 Dr. Lisa Kalynchuk, Dalhousie University  
 Dr. Susanne Erb, University of Toronto  
 Dr. Hugo Lehmann, Trent University  
 Dr. Lucia Jacobs, Berkeley University (2011)  
 Dr. Sabine Gerlinde Metz, University Lethbridge (2012)  
 Dr. Laura Glynn, Chapman University (2013)  
 Dr. Melissa Glenn, Colby College (2013)  
 Dr. Tara Perrot, Dalhousie University (2013)  
 Dr. Sari Van Anders, University of Michigan (2013)  
 Dr. Patrick McGowan, University of Toronto (2015)  
 Dr. Nafissa Ismail, University of Ottawa (2017)  
 Dr. Anne Konkle, University of Ottawa (2018)  
 Dr. Erica Glapser, University of Maryland (2018)  
 Dr. Elizabeth Brynes, Tufts University (2018)

University Degree:

Vancouver Island University (formerly Malaspina) for B.Sc. in Psychology 2007

Department of Psychology

University of Guelph – February 2016

(g) *External examiner (indicate universities and dates)*

External Examiner, M.A., Bryan Jones, SFU, June, 2004  
 Committee Member Anka Mueller, Psychology, SFU, 2007  
 External Examiner, Ph.D., Dwayne Hamson, SFU, January, 2008  
 External Examiner, Ph.D., Neil Fournier, University of Saskatchewan, December, 2009  
 External Examiner, M.Sc., Aneta Krawkowski, University of Toronto, June, 2010  
 External Examiner, M.A., Jesse Taylor, SFU, August, 2011  
 External Examiner, Ph.D. Shira Rosenzweig, University of Toronto, October, 2011  
 External Examiner, Ph.D. Fraser Sparks, University of Lethbridge, February, 2012  
 External Examiner, Ph.D. Kam Dhami, University of Alberta, April, 2013  
 External Examiner, Ph.D., Katherina Lebedeva, University of Saskatchewan, December 2016

(h) *Consultant (indicate organization and dates)*

Pherotech - 1997

(h) *Other service to the community*

Mentor at the Mentorship Program at the YMCA, 1997  
 Mentor for Career Preparation Work Experience Program at Handsworth Secondary School  
 (1998, 2000-2001), Argyle High School (2000, 2004)  
 Mentor for International School of Language (1998, 2000)

## 12. AWARDS AND DISTINCTIONS

(a) *Awards for Teaching (indicate name of award, awarding organizations, date)*

Knox Master Teaching Award, Department of Psychology, UBC, 2001

(b) *Awards for Scholarship (indicate name of award, awarding organizations, date)*

NSERC Discovery Accelerator Supplement, 2018

Dean of Arts, Faculty Research Award, 2015

Fellow in International Behavioral Neuroscience Society, 2013

Cattell Sabbatical Award, 2012

Kavli Fellow, 2009 (invitation to Kavli Frontiers Symposium in Irvine, CA, sponsored by the National Academy of Sciences)

NSERC Discovery Accelerator Supplement, 2007

Killam Research Prize (Junior Science), UBC, 2007

Senior Scholar, Michael Smith Health Research Foundation, 2006

Distinguished University Scholar, University of British Columbia, 2004

Izaak Walton Killam Memorial Faculty Research Fellowship, UBC, 2004

Premier's Research Excellence Award, 2003 (Ontario, declined due to move to BC)

Post-Doctoral Fellowship, Natural Science and Engineering Research Council of Canada, The Rockefeller University, 1994-1996

Best Ph.D. in Neuroscience, The University of Western Ontario, 1994

N.I.H. Travel Award, International Congress of Neuroethology, 1995

Graduate Research Fellowship, University of Western Ontario, 1994

Travel Fellowship to the 23rd Society for Neuroscience Conference at Washington, D.C. from Omnitech Technologies, 1993

Admission Scholarship, University of Western Ontario, 1989-1991

Special University Scholarship, University of Western Ontario, 1989-1993

Awarded the Karl P. Lashley Poster Prize at the Canadian Psychological Association Conference in Calgary, 1991

(c) *Awards for Service (indicate name of award, awarding organizations, date)*

YWCA, Women of Distinction Award for Science, Technology and Research, Vancouver, 2015

(d) *Other Awards*

## 13. OTHER RELEVANT INFORMATION (Maximum One Page)

**Public awareness/Education** – Interviews in print and television for More Magazine(2008), Readers Digest (2010), Canadian Living (2007), Today's Parent (2008), Georgia Strait, Psychology Today (2011), Vancouver Province(2012), APA Monitor (2011), Vancouver Sun (2004, 2011), NSERC (2008), Discovery channel (1998), CBC French Vancouver (2012), CBC Vancouver (2014), Vancouver 24 hours, Chatelaine (2014), Mind over Matter Magazine (2014 – insert in Globe and Mail), CBC News British Columbia (2014), Vancouver Coastal Health (2014), Daily Mail UK ( 2015), Naked Scientist- Cambridge University (2015), Independent UK (2015), BBC (2015), CBS news (2015), CTV news (2015), Huffington Post (2015), New Scientist (2016) +42 more in 2015, WIRED (2017), and the Ottawa Citizen (1999,2009). I have lectured elementary and high school students about



psychology. Public lectures: Telus World of Science, 2010, 2017, 2018; Secrets of the Female Mind, UBC, 2010 and for NARSAD, 2008. Charity Organizations: Alzheimer Society of BC (2013), Women's Brain Health Initiative- Cross Canada Tour (2013), Vancouver General (2016).

I have over 2700 followers on my twitter account @LiisaGalea.

Hot Topics – Media Alert – Society for Neuroscience (2004, 2007, 2010, 2011), Canadian Association for Neuroscience (2015)

2012 – My research chosen by FABBS (Federation of Associations in Behavioral & Brain Sciences) to highlight the contributions of our member societies in a way that enables us to promote the value of our science to the US Congress.

**THE UNIVERSITY OF BRITISH COLUMBIA*****Publications Record*****SURNAME:** Galea**FIRST NAME:** Liisa**Initials:****MIDDLE NAME(S):** Ann Margaret**Date:** Oct 1, 2018**1. REFEREED PUBLICATIONS**

(a) *Journals (underlining denotes student or technician under my supervision) IF: impact factor)*

1. **Galea, L. A. M.**, & Kimura, D. (1993). Sex differences in route learning. *Personality and Individual Differences, 14*: 53-65. IF: 1.423

2. Saksida, L., **Galea, L. A. M.**, & Kavaliers, M. (1993). Predator-induced opioid and non-opioid mediated analgesia in young meadow voles: Sex differences and developmental changes. *Brain Research, 617*, 214-219. IF: 2.341

3. Saksida, L., **Galea, L. A. M.**, & Kavaliers, M. (1993). Antinociceptive effects of the enkephalinase inhibitor, SCH 34826, in the snail, Cepaea nemoralis. *Peptides, 14*, 763-765. IF: 2.701

4. Kavaliers, M., Wiebe, J., & **Galea, L. A. M.** (1994). Reduction of predator-induced anxiety and aversion in mice by the neurosteroid, 3 $\alpha$ -hydroxy-4-pregnen-20-one (3 $\alpha$ HP). *Brain Research, 645*, 325-329. IF: 2.341

5. Kavaliers, M., Wiebe, J., & **Galea, L. A. M.** (1994). Male preference for the odors of estrous female mice is enhanced by the neurosteroid 3 $\alpha$ -hydroxy-4-pregnen-20-one (3 $\alpha$ HP). *Brain Research, 646*, 140-144. IF 2.341

6. Kavaliers, M., & **Galea, L. A. M.** (1994). Spatial water-maze learning using celestial cues by the meadow vole, *Microtus pennsylvanicus*. *Behavioral Brain Research, 61*, 97-100. IF: 3.206

7. **Galea, L. A. M.**, Kavaliers, M., Ossenkopp, K.-P., Innes, D. L., & Hargreaves, E.L. (1994). Sexually-dimorphic spatial learning varies seasonally in two populations of deer mice. *Brain Research, 635*, 18-26. IF: 2.341

8. **Galea, L. A. M.**, Saksida, L., Kavaliers, M., & Ossenkopp, K.-P. (1994). Naloxone enhances spatial acquisition of a water-maze task in non-breeding female but not in non-breeding male meadow voles. *Pharmacology, Biochemistry, and Behavior, 47*, 265-271. IF: 2.092

9. **Galea, L. A. M.**, Ossenkopp, K.-P., & Kavaliers, M. (1994). Developmental changes in spatial learning in the Morris water-maze in young meadow voles, *Microtus pennsylvanicus*. *Behavioral Brain Research, 60*, 43-50. IF:3.206

10. **Galea, L. A. M.**, Kavaliers, M., & Ossenkopp, K.-P. (1994). Performance (re-acquisition) of a water-maze task by adult meadow voles: Effects of age of juvenile acquisition and *in utero* environment (litter sex-ratio). *Behavioral Brain Research, 63*, 177-185. IF:3.206

11. Kavaliers, M., & **Galea, L. A. M.** (1995). Sex differences in the expression and antagonism of swim stress-induced analgesia in deer mice vary with the breeding season. *Pain, 63*, 327-334. IF: 4.836

12. **Galea, L. A. M.**, Kavaliers, M., Ossenkopp, K.-P., & Hampson, E.. (1995). Gonadal hormones and spatial learning in the Morris water-maze in the male and female meadow vole, *Microtus pennsylvanicus*. *Hormones and Behavior*, 29, 106-125. IF: 3.789
13. Kavaliers, M., Colwell, D., & **Galea, L. A. M.** (1995). Parasitic infection impairs spatial learning in mice. *Animal Behavior*, 50, 223-229. IF: 2.711
14. Conrad, C. D., **Galea, L. A. M.**, Kuroda, Y., & McEwen, B. S. (1996). Chronic stress impairs spatial memory on the Y-maze and this effect is blocked by tianeptine pre-treatment. *Behavioral Neuroscience*, 110, 1321-1334. IF:2.907
15. **Galea, L. A. M.**, Kavaliers, M., & Ossenkopp, K.-P. (1996). Sexually-Dimorphic Spatial Learning in Meadow Voles, *Microtus pennsylvanicus* and Deer Mice, *Peromyscus maniculatus*. *Journal of Experimental Biology*, 199, 195-200. IF: 2.631
16. Kavaliers, M., Ossenkopp, K.-P., Prato, F. S., Innes, D. G. L., **Galea, L.A.M.**, & Kinsella, D. M. (1996). Spatial learning in deer mice: Sex differences and the effects of endogenous opioids and 60Hz magnetic fields. *Journal of Comparative Physiology*, 179, 715-24. IF: 3.638
17. Gould, E., McEwen, B. S., Tanapat, P., **Galea, L. A. M.**, & Fuchs, E. (1997) Neurogenesis in the Dentate Gyrus of the Adult Tree Shrew Is Regulated by Psychosocial Stress and NMDA Receptor Activation, *Journal of Neuroscience*, 17, 2492-2498. IF: 7.453
18. **Galea, L. A. M.**, McEwen, B. S., Tanapat, P., Deak, T., Spencer, R. L., & Dhabar, F. S. (1997) Sex differences in dendritic atrophy of CA3 pyramidal neurons in response to chronic restraint stress. *Neuroscience*, 81, 689-697. IF: 3.427
19. Kavaliers, M., Ossenkopp, K. P., **Galea, L. A. M.** & Kolb, B. (1998). Sex differences in spatial learning and prefrontal and parietal cortical dendritic morphology in the meadow vole, *Microtus pennsylvanicus*, *Brain Research*, 810, 41-47. IF:2.341
20. Tanapat, P., **Galea, L. A. M.**, & Gould, E. (1998). Stress inhibits the proliferation of granule cell precursors in the developing dentate gyrus. *International Journal of Developmental Neuroscience*, 16, 235-239. IF: 2.924
21. **Galea, L. A. M.**, & McEwen, B. S. (1999). Sex and seasonal differences in the rate of cell proliferation in the dentate gyrus of adult wild meadow voles. *Microtus Pennsylvannicus*. *Neuroscience*, 89, 955-964 IF: 3.427
22. **Galea, L. A. M.**, Perrot-Sinal, T. S., Kavaliers, M., Ossenkopp, K.P. (1999). Relationships of hippocampal volume and dentate gyrus width to gonadal hormone levels in male and female meadow voles. *Brain Research*, 821, 383-391. IF: 2.341
23. **Galea, L. A. M.**, Ormerod, B., Kostaras, X., Sampath, S., Wilkie, D. & Phelps, M. (2000). Spatial working memory and hippocampal size across pregnancy in rats. *Hormones & Behaviour*, 37, 86-95. IF: 3.789

24. Ormerod, B. K. & **Galea, L. A. M.** (2001) Reproductive status influences cell proliferation and cell survival in the dentate gyrus of adult female meadow voles: a possible regulatory role for estradiol. *Neuroscience*, 102, 371-381. IF:3.427
25. **Galea, L.A.M.**, Wide, J., Barr, A. (2001) Estradiol alleviates depressive-like symptoms in a novel animal model of post-partum depression. *Behavioral Brain Research*, 122, 1-9. IF 3.206
26. Boonstra, R., **Galea, L.A.M.**, Matthews, S., Wojtowicz, J.M. (2001). Adult neurogenesis in natural populations. *Canadian Journal of Physiology and Pharmacology*, 79, 297- 302. IF: 1.380
27. Tanapat, P., Hastings, N.B., Rydel, T.A., **Galea, L.A.M.**, & Gould, E. (2001). Exposure to fox odor inhibits cell proliferation in the hippocampus of adult rats via an adrenal hormone-dependent mechanism. *Journal of Comparative Neurology*, 437, 496-504. IF: 3.831
28. **Galea, L.A.M.**, Wide, J.K., Paine, T.A., Holmes, M.M., Ormerod, B.K. & Floresco, S.B.(2001). High levels of estradiol disrupt conditioned place preference learning, stimulus response learning and reference memory but have no effects on working memory. *Behavioral Brain Research*, 126, 115-126. IF 3.206
29. Holmes, M.M. & **Galea, L.A.M.** (2002). Defensive behavior, and hippocampal cell proliferation: differential modulation by naltrexone during stress. *Behavioral Neuroscience*, 116, 160-168. IF: 2.907
30. **Galea, L.A.M.**, Kostaras, X., Sidhu, J.J. & Barr, A.M. (2002). High levels of estradiol impair spatial performance in the Morris water maze and increase “depressive-like” behaviors in the female meadow vole. *Physiology and Behavior*, 77, 217-25. IF:3.339
31. Holmes, M.M., Wide, J.K. & **Galea, L.A.M.** (2002). Low levels of estradiol facilitate while high levels of estradiol impair working memory performance in the working/reference memory version of the radial arm maze. *Behavioral Neuroscience*, 116, 928-934. IF: 2.907
32. Ormerod, B.K., Lee, T. T-Y. & **Galea, L.A.M.** (2003). Estradiol initially enhances but subsequently suppresses (via adrenal steroids) granule cell proliferation in the dentate gyrus of adult female rats. *Journal of Neurobiology*, 55, 247-260. IF: 4.209
33. Falconer, E.M. & **Galea, L.A.M.** (2003). Sex differences in defensive behaviors, cell proliferation and survival in the dentate gyrus in response to acute predator odor stress. *Brain Research*, 975, 22-36. IF: 2.341
34. Ormerod, B. K., and **Galea, L. A. M.** (2003). Reproductive status alters cell survival in the dentate gyrus of adult male rodents. *Neuroscience Letters*, 346, 25-28. IF: 2.091
35. Ormerod, B. K., Falconer, E.M., and **Galea, L. A. M.** (2003). NMDA receptor activity and estradiol: Separate regulation of cell proliferation in the dentate gyrus of adult female meadow voles. *Journal of Endocrinology*, 179, 155-163. IF: 3.045
36. Holmes, M.M., Mistlberger, R., **Galea, L.A.M.** & Kempermann, G., (2004) Adult Hippocampal Neurogenesis and Voluntary Running Activity: Circadian and Dose Dependent Effects. *Journal of Neuroscience Research*, 76, 216-222. IF:3.190.

37. Wide J.K., Hanratty K, Ting, J., & Galea, L.A.M. (2004). High level estradiol impairs and low level estradiol facilitates non-spatial working memory. *Behavioral Brain Research*, 155, 45-53. IF: 3.206 [NSERC]
38. Ormerod, B. K., Lee T.-T. Y. and Galea, L. A. M. (2004). Estradiol enhances neurogenesis in the dentate gyri of adult male meadow voles by increasing the survival of young granule neurons. *Neuroscience*, 128, 645-654. IF: 3.520 [CIHR]
39. Nagy, A.I., Ormerod, B.K., Mazzucco, C.A. and Galea, L.A.M. (2005). Estradiol-Induced Enhancement in Cell Proliferation is Mediated Through Estrogen Receptors in the Dentate Gyrus of Adult Female Rats. *Drug, Development Research*, 66, 142-149. [CIHR] invited paper: IF: 1.146
40. Pawluski, J.L., and Galea, L.A.M. (2006). Hippocampal morphology is differentially affected by reproductive experience. *Journal of Neurobiology*. 66, 71-81. COVER ART IF: 4.209 [HELP/BC Ministry] – now *Developmental Neurobiology*
41. Pawluski, J.L., Walker, S.K., and Galea, L.A.M. (2006). Reproductive experience differentially affects spatial reference and working memory performance in the mother. *Hormones and Behavior*, 49, 143-149. IF: 4.142 [HELP/BC Ministry]
42. Galea, L.A.M., Spritzer, M.D., Barker, J.M., and Pawluski, J.L. (2006). Gonadal hormone modulation of adult hippocampal neurogenesis. *Hippocampus*, 16, 225-232. [CIHR] IF: 4.710
43. Mazzucco C.A., Liebllich, S.E., Bingham, B.I., Williamson, M.A., Viau V. and Galea, L.A.M. (2006). Both ER $\alpha$  and ER $\beta$  agonists enhance hippocampal cell proliferation in the female rat. *Neuroscience*, 141, 1793-800. IF: 3.520 [CIHR]
44. Brummelte, S., Pawluski, J.L., Galea, L.A.M. (2006). High postpartum levels of corticosterone given to dams influence postnatal neurogenesis and behaviour of offspring: A model of post-partum stress and possible depression. *Hormones and Behavior*, 50, 370-382. IF: 4.142 [NARSAD]
45. Sinopoli, K.J., Floresco, S.B., Galea, L.A.M. (2006). Systemic and local administration of estradiol into the prefrontal cortex or hippocampus differentially alters working memory. *Neurobiology of Learning and Memory*, 86, 293-304. [NSERC] IF: 3.593
46. Kambo, J.S., Galea, L.A.M. (2006). Activational levels of androgens influence risk assessment behaviour but do not influence stress-induced suppression in hippocampal cell proliferation in adult male rats. *Behavioral Brain Research*, 175, 263-270. IF: 3.206 [NSERC]
47. Pawluski, J.L., Vanderbyl, B.L., Ragan, K., Galea, L.A.M. (2006) First reproductive experience persistently affects spatial reference and working memory in the mother and these effects are not due to pregnancy- or 'mothering'- alone. *Behavioural Brain Research*, 175, 157-165. [CIHR] IF: 3.206
48. Hill, M.N, Kambo, J.S., Sun, J. C., Gorzalka, B.B. and Galea, L.A.M. (2006) Endocannabinoids modulate stress-induced suppression of hippocampal cell proliferation and activation of defensive behaviours. *European Journal of Neuroscience*, 24, 1845-1849. [NSERC] IF: 3.789

49. Spritzer, M.D., Galea, L.A.M. (2007). Testosterone and Dihydrotestosterone, but not Estradiol, Enhance Hippocampal Neurogenesis in Adult Male Rats. *Developmental Neurobiology*, 67, 1321-1333. Formerly journal of neurobiology IF: 4.209 [CIHR] now *Developmental Neurobiology* 2.793
50. Epp, J.R., Spritzer, M.D., Galea L.A.M. (2007) Hippocampus-dependent learning promotes survival of new neurons in the dentate gyrus at a specific time during cell maturation. *Neuroscience*, 149, 273-285. IF: 3.520 [NSERC]
51. Barha, C.K., Pawluski, J.L., Galea, L.A.M. (2007). Maternal care affects male and female offspring working memory and stress reactivity. *Physiology and Behavior*, 92, 939-950. IF: 3.339 [NSERC].
52. Pawluski, J.L. Galea, L.A.M. (2007). Reproductive experience alters hippocampal neurogenesis during the postpartum period in the dam. *Neuroscience*, 149, 53-67. IF: 3.520 [CIHR] COVER ART
53. Spritzer, M.D., Gill, M., Weinberg, A. Galea, L.A.M. (2008) Castration differentially affects spatial working and reference memory in adult male rats. *Archives of Sexual Behavior*, 37, 19-29.[NSERC] IF: 3.425
54. Galea, L.A.M. (2008). Gonadal Hormone Modulation of Neurogenesis in the Dentate Gyrus of Adult Male and Female Rodents. *Brain Research Reviews*, 57, 332-41. IF:7.330 [CIHR]
55. Barker, J.M., Galea, L.A.M. (2008). Repeated estradiol administration increases cell proliferation and decreases cell death in female, but not male, rats. *Neuroscience*, 152, 888-902. IF: 3.556 [CIHR]
56. Mueller, A, Pollock, M.S., Leiblich, S.E., Epp, J.R, Galea, L.A.M., Mistlberger, R.E.(2008) Sleep deprivation can inhibit adult hippocampal neurogenesis independent of adrenal stress hormones. *American Journal of Physiology*, 294: R1693-1703. IF: 3.363
57. Green, AD., Galea, L.A.M. (2008). Adult Hippocampal Cell Proliferation is suppressed with estrogen withdrawal after a hormone-simulated pregnancy. *Hormones and Behavior*, 54, 203-211. IF: 4.142 [NARSAD] COVER ART
58. Mazzucco C.A., Walker, H.A., Pawluski, J.L., Lieblich, S.E., and Galea, L.A.M. (2008). ER $\alpha$ , but not ER $\beta$ , mediates the expression of sexual behaviour in the female rat. *Behavioral Brain Research*, 191: 111-117. [NSERC] IF: 3.206
59. Galea, LAM, Uban<sup>+</sup>, K.A., Epp<sup>+</sup>, J.R., Brummelte<sup>+</sup>, S, Barha<sup>+</sup>, C.K., Wilson<sup>+</sup>, W.L., Lieblich, S.E., Pawluski<sup>+</sup>, JL (2008). Endocrine Regulation Of Cognition And Neuroplasticity: Our Pursuit To Unveil The Complex Interaction Between Hormones, The Brain And Behaviour. *Canadian Journal of Experimental Psychology*, 62: 247-260. IF:1.971
60. Pawluski, JL, Charlier, TD, Hammond, GL, Galea, LAM (2009). Reproductive experience affects corticosterone and corticosteroid binding globulin during the postpartum period in the dam. *Physiology and Behavior* 96:108-114. [CIHR] IF: 3.339
61. Pawluski, JL, Lieblich, S.E., Galea, LAM (2009). Offspring exposure reduces depressive-like behaviour in the parturient female rat. *Behavioral Brain Research*, 197: 55-61. [CIHR] IF: 3.206

62. Barha, C.K., Lieblich, S.E., Galea L.A.M. (2009). Different forms of oestrogens rapidly upregulate hippocampal cell proliferation in the dentate gyrus of young female rats. *Journal of Neuroendocrinology*, 21, 155-166. [PARF] IF: 3.281 (3.7-2009) COVER ART
63. Epp,J.R. Galea, L.A.M. (2009). Hippocampus-dependent strategy choice predicts low levels of cell proliferation in the dentate-gyrus. *Neurobiology of Learning and Memory* 91(4):437-46. [NSERC] IF: 3.674
64. Spritzer, M.D., Weinberg, A., Viau, V. Galea, L.A.M. (2009). Prior sexual stimulation increases hippocampal cell proliferation and risk assessment behavior in response to acute predator odor stress in the male rat. *Behavioral Brain Research*, 200 (1):106-12.[NSERC] IF: 3.206
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## **9. WORK IN PREPARATION (% completion)**

Duarte-Guterman, P, Leuner, B, Galea, LAM (80%) Long and Short term effects of Motherhood on brain and behavior. *Frontiers in Neuroendocrinology*

Duarte-Guterman, P, Hamson, DK., Wainwright SR., Chow, C., Watson, NV, Galea, LAM (70%) Androgens act in a sex dependent manner to increase adult neurogenesis in the dentate gyrus across the lifespan. *Neurobiology of Aging*.

Yagi, S., Wainwright, S.R., Sniegocki, J, Floresco, SB, Galea, L.A.M. (80%) Sex and Testosterone effects on risky decision making. *Neuropharmacology*

Murphy, K.J., Troyer, AK., Galea, L.A.M. (80%) Cortisol and memory function in amnesic-Mild Cognitive Impairment. *Neurobiology of Aging*

Barha, CK, Roes, MM, Hayden S., Galea, L.A.M. (50%). Reproductive history characteristics influence cognitive decline in women with Alzheimer's disease.

Kriengwatana, P., Block, A, Lieblich, SE, Floresco, S.B. Galea, L.A.M., (50%). Dose dependent biasing of strategy selection by estradiol in a set-shifting task. [NSERC]