

Europass Curriculum Vitae

First name(s) / Surname(s)

Maria Morena

Apr 2014 - Nov 2020

Post-Doctoral Fellow

Feb 2014 - Mar 2014

Research Internship

Research Internship

3330 Hospital Dr. NW T2N 4N1 Calgary (AB) Canada

Research Activity in the field of Behavioural Neuropsychopharmacology

Research Activity in the field of Behavioural Neuropsychopharmacology

University of Rome Piazzale Aldo Moro, 5 00185 Rome, Italy

Preclinical Neuropsychopharmacology Research

Preclinical Neuropsychopharmacology Research

3330 Hospital Dr. NW T2N 4N1 Calgary (AB) Canada Preclinical Neuropsychopharmacology Research

Research/Work experience

Dates

Occupation or position held Main activities and responsibilities Name and address of employer

Type of business or sector

Dates

Occupation or position held Main activities and responsibilities Name and address of employer

Type of business or sector

Apr 2013 - Oct 2013 Dates

Occupation or position held Main activities and responsibilities Name and address of employer

Type of business or sector

Oct 2012 - Nov 2012 Dates

Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector **Research Internship** Research Activity in the field of Behavioural Neuropsychopharmacology Prof. Gustav Schelling; Dept. of Anesthesiology, Ludvig-Maximilian University, Munich Germany Preclinical and Clinical Neuropsychopharmacology Research

Dr. Matthew Hill; Hotchkiss Brain Institute Dept. of Cell Biology and Anatomy, University of Calgary

Research Activity in the field of Behavioural Neuropsychopharmacology and Neurophysiology

Prof. Patrizia Campolongo; Dept. of Physiology and Pharmacology "V. Erspamer", Sapienza

Dr. Matthew Hill; Hotchkiss Brain Institute Dept. of Cell Biology and Anatomy, University of Calgary

Dates

Dates

Occupation or position held Main activities and responsibilities Name and address of employer

Research Activity in the field of Behavioural Neuropsychopharmacology Prof. Patrizia Campolongo; Dept. of Physiology and Pharmacology "V. Erspamer" Sapienza University of Rome Piazzale Aldo Moro, 5 00185 Rome, Italy Preclinical Neuropsychopharmacology Research

Type of business or sector

Feb 2009 - Oct 2010

Nov 2010 - Feb 2014

PhD student

Master student

Occupation or position held Main activities and responsibilities Name and address of employer

Research Activity in the field of Behavioural Neuropsychopharmacology Prof. Patrizia Campolongo/Prof. Vincenzo Cuomo; Dept. of Physiology and Pharmacology "V. Erspamer" Sapienza University of Rome Piazzale Aldo Moro, 5 00185 Rome, Italy

Type of business or sector	Preclinical Neuropsyc	hopharmacology R	esearch		
Leave of Absence	Maternity leave Jan 2	020 - Nov 2020			
Education & professional habilitations					
Date	May 2019 – May 202	8			
Title of qualification awarded	Italian scientific habili	tation to associate	orofessorship		
Principal subjects/occupational skills covered	Pharmacology, Clinic	al Pharmacology ar	nd Pharmacognosy (05	5/G1)	
Date	Feb 05 2014				
Title of qualification awarded	PhD in Toxicology				
Principal subjects/occupational skills covered	Pharmacology, Behav	vioral Pharmacolog	y, Neuropsychopharm	acology, Toxicology	
Name and type of organisation providing education and training	"Sapienza" University	of Rome, Italy			
Date	Dec 2011				
Title of qualification awarded	Board-Certified Pharr	nacist Doctor			
Principal subjects/occupational skills covered	Pharmacist qualificati	on			
Name and type of organisation providing education and training	"Sapienza" University	of Rome, Italy			
Date	Oct 28 2010				
Title of qualification awarded	Bachelor & Master de laude)	gree in Pharmaceu	tical Chemistry and Te	echnology (CTF) (110/	'110 summa cum
Principal subjects/occupational skills covered	Statistical Analysis Ph	narmaceutical Cher	y, Organic and Inorgar nistry, Vegetal- Anima cal industries organiza	l and Molecular Biolog	
Name and type of organisation providing education and training	Faculty of Pharmacy,	"Sapienza" Univers	sity of Rome, Italy	-	
Personal skills and competences					
Mother tongue(s)	Italian				
Other language(s)			_		
Self-assessment	Underst	anding	Spea	king	Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	A1	B1	A1	A1	A1
	(*) Common European I	Framework of Refere	nce for Languages		
Social skills and competences	Good abilities for syni to establish and main		ews over concrete situa elationships.	ations. Problem-solvin	g attitude. Ability
Organisational skills and competences	Leadership. Sense of Project and team mar				

Technical skills and competences	Preclinical Behavioural Neuropsychopharmacology research: Stereotaxic surgery procedures, Perfusion Fixation Procedures, Behavioural tasks, Optical Microscopy, Biochemical assays, Immunohistochemistry, in vivo electrophysiology.
Additional Information	
Teaching experience	1. Course of Toxicology of the Master Course in Pharmacy, Faculty of Medicine and Pharmacy, Sapienza University of Rome. Teaching assistant-lecturer (Sept 2011-Feb 2012)
	 Course of Pharmacology and Toxicology of the Master Course in Pharmacy, Faculty of Medicine and Pharmacy, Sapienza University of Rome. Teaching assistant-lecturer (Sept 2012-Feb 2013)
	3. Grad Course Neuro II: Stress and Reward, University of Calgary. Lecturer (March 2015)
Academic supervisory and mentoring activity	MSc Thesis external committee member and co-supervisor , student Alessia Santori, Sapienza University of Rome, Apr 2017- Oct 2017
	BSc Thesis co-supervisor, student Andrei Nastase, University of Calgary, Sept 2017-May 2018
	Co-evaluator MSDC 528 – Independent Studies in Medical Science , Bachelor of Health Science, University of Calgary – Student: Sonia Martins, Apr 2018 – Sept 2018
	Supervisor of 7 undergraduate students during my Postdoc
	Training of 5 Master students during my PhD and 1 Master student during my Postdoc
Scientific journal referee activity	Frontiers in Behavioral Neuroscience - Behavioral Neuroscience Archive – Review Editor
	Frontiers in Behavioral Neuroscience - Learning and Memory – Review Editor
	Frontiers in Pharmacology - Experimental Pharmacology and Drug Discovery – Review Editor
	Behavioural Pharmacology
	Brain, Behavior and Immunity
	Brain Research Bulletin
	British Journal of Pharmacology
	Endocrine
	European Journal of Neuropsychopharmacology
	Experimental and Clinical Psychopharmacology
	Frontiers in Molecular Neuroscience
	Frontiers in Pharmacology - Translational Pharmacology
	Journal of Psychopharmacology
	Molecular Neurobiology
	Neurobiology of Stress
	Neuropharmacology
	Neuropsychopharmacology
	Neurotoxicology and Teratology
	Oncotarget
	Physiology and Behavior

	PLoS One	
	Psychoneuroendocrinology	
Scientific research and grant referee activity	Canadian Institutes of Health and Research (CIHR) "Doctoral Research Awards – A" National Awards Grant Reviewer	
	Research and professional activity of research-oriented institutes of the Czech Academy – Evaluator for Medical and health sciences panel	
Memberships		
	European Behavioural Pharmacology Society (EBPS)	
	European Brain and Behaviour Society (EBBS)	
	Italian Society of Pharmacology (SIF)	
	International Cannabinoid Research Society (ICRS)	
	Society for Neuroscience (SFN)	
	Canadian Consortium for the Investigation of Cannabinoids (CCIC)	
	International Society of Psychoneuroendocrinology (ISPNE)	
	Mediterranean Neuroscience Society (MNS)	
Prizes/Awards/Fellowships	 GRC Trainee Conference Support to attend the Gordon Research Conference on Cannabinoids 2019 awarded by Gordon Research Conference – Jul 21-26, 2019 (US\$ 200) 	
	 GRS Trainee Conference Support to attend the Gordon Research Seminar on Cannabinoids 2019 awarded by Gordon Research Seminar – Jul 20-21, 2019 (US\$ 375) 	
	 Seal of Excellence, awarded by the European Commission, as the institution managing the EU Framework Programme for Research and Innovation 2014-2020, for a research project submitted under the Horizon 2020's Marie Skłodowska-Curie actions, individual fellowship 2018, Mar 19 2019 	
	4. 2018 Postdoctoral Researcher of the Year Award (second place) awarded by the Hotchkiss Brain Institute (University of Calgary)-Jan 2019	
	 ICRS Poster Presentation Award 2018 awarded by the International Cannabinoid Research Society - 28th Annual symposium of the International Cannabinoid Research Society in Leiden (The Netherlands) – Jun 30-Jul 5, 2018 (US\$ 100) 	
	 ICRS Travel Award to support the attendance to the 28th Annual symposium of the International Cannabinoid Research Society in Leiden (The Netherlands) – Jun 30-July 5, 2018 (US\$ 500) 	
	 Young Research Award 2017 awarded by the Dept. of Physiology and Pharmacology, Sapienza University of Rome-Mar 2018 (€ 2000) 	
	 FENS-IBRO/PERC Travel grant to support the attendance of the 11th FENS Forum of Neuroscience, Berlin 2018 – Mar 29 2018 (€ 750) 	
	 HBI Conference Travel Award awarded by the Hotchkiss Brain Institute, University of Calgary – Nov 8, 2017 (CAN \$ 500) 	

- 10. Otsuka 2017 Prize for Young Scientist awarded by the Italian Society of Pharmacology (SIF) - Oct 27, 2017 (€ 5000)
- 11. **GRC Trainee Conference Support** to attend the Gordon Research Conference on Cannabinoids 2017 awarded by Gordon Research Conference Aug 20-25, 2017 (US\$ 500)
- 12. **GRS Trainee Conference Support** to attend the Gordon Research Seminar on Cannabinoids 2017 awarded by Gordon Research Seminar Aug 19-20, 2017 (US\$ 260)
- Mathison Centre Trainee Travel Award to support the attendance to the 6th Conference of the Mediterranean Neuroscience Society awarded by the Mathison Centre for Mental Health Research & Education, University of Calgary, Calgary, Canada – July 29, 2017 (CAN\$ 1,000)
- ICRS Travel Award to support the attendance to the 27th Annual symposium of the International Cannabinoid Research Society in Montreal (Canada) – June 22-27, 2017 (US\$ 350)
- 15. **MNS2017 Travel Award** to support the attendance to the 6th Conference of the Mediterranean Neuroscience Society in Malta June 12-15, 2017 (€ 500)
- 16. **2016 Postdoctoral Researcher of the Year Award** (second place) awarded by the Hotchkiss Brain Institute (University of Calgary)-Jan 2017
- 17. HBI Trainee Publication Award 2016 awarded by the Hotchkiss Brain Institute (University of Calgary)-Jan 2017 (CAN\$ 100)
- 2016 Dr. Hubert van Tol Travel Grant awarded by the Brain Canada Foundation Sept 2016 (CAN\$ 5,000)
- 19. 2016 SFN Trainee Professional Development Award awarded by the Society for Neuroscience Aug 2016 (US\$ 1,000)
- 20. ACNP Travel Award awarded by the American College of Neuropsychopharmacology Jun 2016
- ICRS Travel Award to support the attendance to the 26th Annual symposium of the International Cannabinoid Research Society in Bukovina (Poland) – June 27-30, 2016 (US\$ 500)
- 22. **2015 Postdoctoral Researcher of the Year Award** awarded by the Hotchkiss Brain Institute (University of Calgary)-Jan 2016
- 23. Young Research Award 2015 awarded by the Dept. of Physiology and Pharmacology, Sapienza University of Rome-Jan 2016 (€ 2000)
- 24. HBI Trainee Publication Award 2015 awarded by the Hotchkiss Brain Institute (University of Calgary)-Jan 2016 (CAN\$ 100)
- 25. "SIF-Farmindustria-2015" Prize for Young Scientist awarded by the Italian Society of Pharmacology (SIF) Sept 18, 2015 (€ 5,000)
- 26. **EBBS Travel Fellowship** to attend the EBBS/EBPS meeting 2015 in Verona (Italy) awarded by the European Brain and Behaviour Society (EBBS) May 25, 2015 (€ 500)

	 CCIC Trainee Conference Support to attend the Gordon Conference on Cannabinoids 2015 awarded by the Canadian Consortium for the Investigation of Cannabinoids (CCIC) – May 11, 2015 (CAN\$ 1500)
	28. Outstanding Postdoctoral Research Talk Prize , Canadian Spring Conference on Behaviour and Brain - February 19-21, 2015, Fernie (BC), Canada
	29. Mathison Centre Trainee Travel Award to support the attendance to the Gordon Conference on Cannabinoids 2015 awarded by the Mathison Centre for Mental Health Research & Education, University of Calgary, Calgary, Canada – December 15, 2014 (CAN\$ 1,000)
	 ICRS Travel Award to support the attendance to the 24th Annual symposium of the International Cannabinoid Research Society in Baveno (Italy) – June 28-July 3, 2014 (US\$ 500)
	31. Eyes High Post-doctoral two-year salary grant awarded by the University of Calgary, Calgary, Canada – April 2014-March 2016 (CAN\$ 100,000)
	32. Research fellowship awarded by University of Romatre, Rome, Italy-April 2014 (€ 3,000)
	33. SIF Oral communication prize awarded by the Italian Society of Pharmacology (SIF), 36° Congresso nazionale della società italiana di farmacologia "Il ruolo della ricerca farmacologica per la crescita e la salute in Italia" - October 23-26, 2013, Turin, Italy (€ 500)
	34. SIF Research fellowship for PhD students to conduct research for a 6-month period at the University of Calgary, Calgary, Canada (Supervisor Dr. Matthew N. Hill) awarded by the Italian Society of Pharmacology (Società Italiana di Farmacologia, SIF)-April 2013-October 2013 (€ 6,000)
	35. ICRS Travel Award to support the attendance to the 23rd Annual symposium of the International Cannabinoid Research Society in Vancouver – June 21-26, 2013 (US\$ 550)
	36. DAAD Research fellowship for PhD students to conduct research at a German higher education institution (Supervisor Prof. Gustav Schelling) awarded by the German Academic Exchange Service (Deutscher Akademischer Austausch Dienst, DAAD)-October 2012 (€ 1,000)
	37. Travel Award to support the attendance at the Conference "Frontiers in Stress and Cognition: From Molecules to Behavior" – September 23-26, 2012, Ascona, Switzerland (€ 300)
	 Individual three-year fellowship in Pharmacology and Toxicology released by "Sapienza" University of Rome – November 2011- October 2013 (€ 40,900)
Research & salary grants	Ricerca Finalizzata Giovani Ricercatori (PI) GR-2019-12369216 – Italian Ministry of Health - 2021-2023 (€ 449,980)
	Seal of SAPIExcellence grant (PI) - Sapienza University of Rome, Italy – Jan 2021-Jan 2022 (€ 50,000)
	Canadian Institutes of Health and Research (CIHR) Postdoctoral national competitive grant (PI) – Apr 2016-Feb 2019 (CAN\$ 131,250)
	Alberta Innovates Health Solutions (AIHS) Postdoctoral provincial competitive grant (PI) – Apr 2016-Mar 2019 (CAN\$ 165,000)
	"Mathison Centre for Mental Health Research & Education" Postdoctoral competitive grant (PI), declined - University of Calgary, Canada –Apr 2016 (CAN\$ 110,000)

Organization of meetings/symposia	"Cumming School of Medicine Postdoctoral Scholarship" Postdoctoral competitive declined - University of Calgary, Canada – Apr 2016 (CAN\$ 37,500)	grant (PI),
	 Gordon Research Seminar Amygdala Function in Emotion, Cognition & Dise Differences, Physiological Mechanisms and Pathological Conditions of the Am August 3-4 2019 – Meeting Chair 	
	 7th Mediterranean Neuroscience Society Conference – Jun 23-27, 2019, Morocco Symposium. Organizer for "New perspectives on fear memory-related networks: Integrating electrophysiological, molecular and behavioral approaches" ora 	d neuronal
	 Hotchkiss Brain Institute Summer Student Symposium – August 15 2017, Cal Canada. Scientific judge committee member 	gary (AB),
	 27th Annual ICRS Symposium on the Cannabinoids – June 22-27, 2017, Mon Canada. Symposium Chair for "Anxiety, Fear and PTSD" session 	treal (QB),
	5. 27th Annual ICRS Symposium on the Cannabinoids – June 22-27, 2017, Mon Canada. Programme Committee member	treal (QB),
	 6th Mediterranean Neuroscience Society Conference – June 12-15, 201 Symposium Organizer and Chair for "Neurological mechanisms of the impact of memory and emotionality in health and disease: Insights from animal and clinical st session 	f stress on
	 Canadian Spring Conference on Behaviour and Brain – February 18-20, 2016, Fe Canada. Symposium Chair for "EEG" oral session 	ərnie (BC),
	 Canadian Spring Conference on Behaviour and Brain – February 18-20, 2016, Fe Canada. Symposium Chair for "Facilitating recovery" oral session 	ərnie (BC),
	9. 24th Annual ICRS Symposium on the Cannabinoids – June 28 - July 3, 2014, Bar Scientific judge committee member	veno, Italy.
	 "The Emotional Brain: From neurobiology to new therapeutic opportunities – 5-6, 2011, Rome, Italy. Scientific secretariat 	September
Publications (peer reviewed journals)		
	 Santori A., Morena M., Hill M.N., Campolongo P. Hippocampal endocannabinoic regulates time-of-day- and stress-dependent effects on rat short-term memory. Int 2020; 21:7316. 	
	 Colangeli R., Morena M., Pittman Q.J., Hill M.N., Teskey G.C. Anandamide augmentation rescues amygdala synaptic function and comorbid emotional altera model of epilepsy. J Neurosci 2020; 40:6068-6081. 	
	 Yasmin F., Colangeli R., Morena M., Filipski S., van der Stelt M., Pittman Q.J., H Teskey G.C., McEwen B.S., Hill M.N, Chattarji S. Stress-induced mod endocannabinoid signalling leads to delayed strengthening of synaptic connectiv amygdala. Proc Natl Acad Sci U S A 2020; 117:650-655. 	ulation of

- Mayo L.M., Asratian A., Lindé J., Morena M., Haataja R., Hammer V., Augier G., Hill M.N., Heilig M. Elevated anandamide, enhanced recall of fear extinction, and attenuated stress responses following inhibition of fatty acid amide hydrolase (FAAH): a randomized, controlled experimental medicine trial. Biol Psychiatry 2020; 87:538-547.
- Santori A., Colucci P., Mancini G.F., Morena M., Trezza V., Palmery M., Puglisi-Allegra S., Hill M.N., Campolongo P. Anandamide modulation of circadian- and stress-dependent effects on rat short-term memory. Psychoneuroendocrinology 2019; 108:155-162.
- Habib A.M., Okorokov A.L., Hill M.N., Bras J.T., Lee M., Li S., Gossage S.J., van Drimmelen M., Morena M., Houlden H., Ramirez J.D., Bennett D.L.H., Srivastava D., Cox J.J. Microdeletion in a FAAH pseudogene identified in a patient with high anandamide concentrations and pain insensitivity. Br J Anaesth 2019; 123:e249-e253.
- 7. Morena M. and Hill M.N. Buzzkill: the consequences of depleting anandamide in the hippocampus. Neuropsychopharmacology 2019, 44:1347-1348.
- Morena M., Aukema R.J., Leitl K.D., Rashid A.J., Vecchiarelli H.A., Josselyn S.A., Hill M.N. Upregulation of anandamide hydrolysis in the basolateral complex of amygdala reduces fear memory expression and indices of stress and anxiety. J Neurosci 2019; 39:1275–1292.
- Sticht MA., Lau DJ., Keenan CM., Cavin JB., Morena M., Vemuri VK., Makriyannis A., Cravatt BF., Sharkey KA., Hill MN. Endocannabinoid regulation of homeostatic feeding and stressinduced alterations in food intake in male rats. Br J Pharmacol 2019; 176:1524-1540.
- Ratano P., Petrella C., Forti F., Petrocchi Passera P., Morena M., Palmery M., Trezza V., Severini C., Campolongo P. Pharmacological inhibition of 2-arachidonoilglycerol hydrolysis enhances memory consolidation in rats through CB2 receptor activation and mTOR signaling modulation. Neuropharmacology 2018; 138:210-218.
- Berger A.L., Henricks A.M., Lugo J.M., Wright H.R., Warrick C.R., Sticht M.A., Morena M., Bonilla I., Laredo S.A., Craft R.M., Parsons L.H., Grandes P.R., Hillard C.J., Hill M.N., McLaughlin R.J. The lateral habenula directs coping styles under conditions of stress via recruitment of the endocannabinoid system. Biol Psychiatry 2018; 84:611-623.
- Morena M., Berardi A., Colucci P., Palmery M., Trezza V., Hill M.N., Campolongo P. Enhancing endocannabinoid neurotransmission augments the efficacy of extinction training and ameliorates traumatic stress-induced behavioral alterations in rats. Neuropsychopharmacology 2018; 43:1284-96. (IF: 6.751)
- Atsak P., Morena M., Schoenmaker C., Tabak E., Oomen C., Jamil S., Hill M.N., Roozendaal B. Glucocorticoid-endocannabinoid uncoupling mediates fear suppression deficits after early – life stress. Psychoneuroendocrinology 2018; 91:41-49.
- Morena M., Berardi A., Peloso A., Valeri D., Palmery M., Trezza V., Schelling G., Campolongo P. Effects of ketamine, dexmedetomidine and propofol anesthesia on emotional memory consolidation in rats: Consequences for the development of posttraumatic stress disorder. Behav Brain Res 2017; 329:215-220.
- Morena M., Leitl K. D., Vecchiarelli H. A., Gray J. M., Campolongo P., Hill M. N. Emotional arousal state influences the ability of amygdalar endocannabinoid signaling to modulate anxiety. Neuropharmacology 2016; 111:59-69.
- Silveira M.M., Adams W.K., Morena M., Hill M.N., Winstanley C.A. Δ9-Tetrahydrocannabinol decreases willingness to exert cognitive effort in male rats. J Psychiatry Neurosci 2016; 41:150363.

17.	Xia S., Zhou Z., Leung C., Zhu Y., Pan X., Qi J., Morena M., Hill M. N., Xie W., Jia Z. p21-
	activated kinase 1 restricts tonic endocannabinoid signaling in the hippocampus. eLife 2016;
	pii:e14653.

- 18. Morena M., Patel S., Bains J. S., Hill M. N. Neurobiological interactions between stress and the endocannabinoid system. Neuropsychopharmacology 2016; 41:80-102.
- Vecchiarelli H. A., Gandhi C. P., Gray J. M., Morena M., Hassan K., Hill M. N. Divergent responses of inflammatory mediators within the amygdala and medial prefrontal cortex to acute psychological stress. Brain, Behavior and Immunity, 2016; 51:70-91.
- Morena M., De Castro V., Gray M.J., Palmery M., Trezza V., Roozendaal B., Hill M.N. and Campolongo P. Training associated-emotional arousal shapes endocannabinoid modulation of spatial memory retrieval in rats. J Neurosci 2015; 35:13962-74.
- Qi M., Morena M., Vecchiarelli H. A., Hill M. N., Schriemer D. C. A robust capillary liquid chromatography/tandem mass spectrometry method for quantitation of neuromodulatory endocannabinoids Rapid Commun Mass Spectrom 2015; 29:1889-97.
- Manduca A., Morena M., Campolongo P., Servadio M., Palmery M., Trabace L., Hill M.N., Vanderschuren L.J.M.J, Cuomo V., Trezza V. Distinct roles of the endocannabinoids anandamide and 2-arachidonoylglycerol in social behavior and emotionality at different developmental ages in rats. Eur Neuropsychopharmacol 2015, 25:1362-74.
- Gray J.M., Vecchiarelli H.A., Morena M., Lee T.T.Y., Hermanson D., Kim A.B., McLaughlin R.J., Hassan K., Kühne C., Wotjak C.T., Deussing J.M., Patel S., Hill M.N. Corticotropin releasing hormone drives anandamide hydrolysis in the amygdala to promote anxiety J Neurosci 2015; 35:3879-92.
- Morena M., Roozendaal B., Trezza V., Ratano P., Peloso A., Hauer D., Atsak P., Trabace L., Cuomo V., McGaugh J.L., Schelling G. and Campolongo P. Endogenous cannabinoid release within prefrontal-limbic pathways affects memory consolidation of emotional training. Proc Natl Acad Sci U S A 2014; 111:18333-8.
- 25. Morena M. and Campolongo P. The endocannabinoid system: An emotional buffer in the modulation of memory function. Neurobiology of Learning and Memory 2014; 112:30-43.
- Campolongo P.*, Morena M.*, Scaccianoce S., Trezza V., Chiarotti F., Schelling G., Cuomo V., Roozendaal B. Novelty-induced emotional arousal modulates cannabinoid effects on recognition memory and adrenocortical activity. Neuropsychopharmacology. 2013; 38:1276-86. * equal contribution.
- Trezza V., Campolongo P., Manduca A., Morena M., Palmery M., Vanderschuren L.J.M.J., Cuomo V. Altering endocannabinoid neurotransmission at critical developmental ages: impact on rodent emotionality and cognitive performance. Frontiers in Behavioral Neuroscience. 2012; 6:2.
- Hauer D., Ratano P., Morena M., Scaccianoce S., Briegel I., Palmery M., Cuomo V., Roozendaal B., Schelling G., Campolongo P. Propofol enhances memory formation via an interaction with the endocannabinoid system. Anesthesiology. 2011; 114:1380-8.

Book Chapters

- Morena M. and Campolongo P. Disturbi d'Ansia (Anxiety Disorders). In: Calignano (Ed.) Manuale di Farmacoterapia (Pharmacotherapy Handbook). Idelson-Gnocchi, 2019. ISBN: 9788879476874; pp. 677-702.
- Morena M. and Campolongo P. Endocannabinoid modulation of memory for emotionally arousing experiences. In: Fattore and Campolongo (eds.) Cannabinoids Modulation of Emotion, Memory, and Motivation. Springer-Verlag New York. 2014, ISBN 978-1-4939-2293-2.

Oral communications at national/international meetings & academic institutions

- Morena M., Colangeli R., Nastase A. S., Santori A., Teskey G. C., Hill M. N. "Inhibition of the endocannabinoid anandamide degradation restores stress-mediated impairments of contextual fear memory extinction and hippocampal in vivo long-term synaptic plasticity" selected talk – Canadian Spring Conference on Behaviour and Brain - Feb 22-24, 2019, Fernie (BC), Canada
- Morena M., Colangeli R., Nastase A. S., Santori A., Teskey G. C., Hill M. N. "Inhibition of the endocannabinoid anandamide degradation restores stress-mediated impairments of contextual fear memory extinction and hippocampal in vivo long-term synaptic plasticity" selected Data Blitz talk - ACNP meeting 2018 – Dec 9-13, 2018, Hollywood (Florida) USA
- Morena M. "Enhancing endocannabinoid neurotransmission augments the efficacy of extinction training and ameliorates traumatic stress-induced behavioral alterations in rats", invited talk – Young Research Award 2017, Dept. Physiology and Pharmacology, Sapienza University of Rome – Aug 12 2018, Rome, Italy
- Morena M. "Overexpression of the endocannabinoid anandamide degrading enzyme in the basolateral amygdala paradoxically decreases anxiety and fear memory" selected lightning talk- The 2018 International Conference on Learning and Memory – Apr 18-22, 2018, Huntington Beach, California, USA
- Morena M. "Impact of different stress intensities on cognition and emotion: a focus on endocannabinoids" invited talk, symposium – 38th National Congress of the Italian Society of Pharmacology (SIF) – Oct 25-28, 2017, Rimini, Italy
- Morena M., Leitl K. D., Rashid A., Josselyn S. A., Hill M. "Fatty acid amide hydrolase overexpression in the basolateral nucleus of the amygdala induces paradoxical effects on anxiety and fear memory in rats" selected talk – Gordon Research Seminar Cannabinoid function in the CNS - Aug 19-20, 2017, Waterville Valley (NH), USA
- Morena M., Leitl K. D., Rashid A., Josselyn S. A., Hill M. "Fatty acid amide hydrolase overexpression in the basolateral nucleus of the amygdala induces paradoxical effects on anxiety and fear memory in rats" selected talk – 27th Annual symposium of the International Cannabinoid Research Society 2017 - June 22-27, 2017, Montreal (QB), Canada
- Morena M. "Modulation of cognition and emotion by the endocannabinoid signaling is dependent on stress and arousal state" invited talk, symposium – 6th Conference of the Mediterranean Neuroscience Society 2017 - June 12-15, 2017, Malta
- 9. **Morena M.** "Paradoxical effects of fatty acid amide hydrolase overexpression in the basolateral nucleus of the amygdala in anxiety and fear memory in rats" **selected talk** Munich Winter Conference on Stress March 19-22, 2017, Garmisch-Partenkirchen, Germany
- Morena M., Leitl K. D., Rashid A., Josselyn S. A., Hill M. "Fatty acid amide hydrolase overexpression in the basolateral nucleus of the amygdala paradoxically decreases anxiety and reduces fear expression in rats" selected talk – Canadian Spring Conference on Behaviour and Brain - February 23-25, 2017, Fernie (BC), Canada
- Morena M. "Cannabis and PTSD: From neurobiology to clinical implications" invited talk -Medical Cannabis & Clinical Research in Canada, Clinical Research Association of Canada – February 2, 2017, Calgary (AB), Canada
- Morena M. "Endocannabinoid modulation of cognition and emotion: Influences of stress and arousal state" invited talk – HBI Postdoctoral Researcher of the Year, Hotchkiss brain Institute, University of Calgary – May 13, 2016, Calgary (AB), Canada

	Morena M. "Endocannabinoid modulation of cognition and emotion is influenced by arousal state" invited talk – Youth Mental Health Day 2016, The Mathison Centre for Mental Health Research and Education, University of Calgary – March 7, 2016, Calgary (AB), Canada
14.	Morena M. "Training-associated emotional arousal shapes endocannabinoid modulation of spatial memory retrieval in rats", invited talk – Dept. Physiology and Pharmacology, Sapienza University of Rome – March 1 2016, Rome, Italy
15.	Morena M. "Stress effects on memory: The role of the endocannabinoid system", invited talk , symposium – Psychoneuroendocrinology 2015, 61:20; PS4.3.2 - ISPNE Conference: Stress and the Brain, from Fertility to Senility – September 8-11, 2015, Edinburgh, Scotland
16.	Morena M., De Castro V., Gray J. M., Trezza V., Roozendaal B., Hill M. N. and Campolongo P. "Learning under stress differentially affects cannabinoid modulation of spatial memory retrieval in rats", selected talk – Canadian Spring Conference on Behaviour and Brain - February 19- 21, 2015, Fernie (BC), Canada
17.	Morena M., Peloso A., Trezza V., Hill M. N. and Campolongo P. "Learning under stress differentially affects cannabinoid modulation of spatial memory retrieval in rats", selected talk – 24 th Annual symposium of the International Cannabinoid Research Society 2014 - June 28-July 3, 2014, Baveno, Italy
18.	Morena M., Peloso A., Campolongo P., Cuomo V. "Context-associated emotional arousal shapes endocannabinoid modulation of spatial memory retrieval in rats", selected talk – 36 th Conference of the Italian Society of Pharmacology" - October 23-26, 2013, Turin, Italy
More	than 50 poster presentations at national/international meetings
1.	On line article. Title: "Struggling to forget: Memory researcher studies PTSD causes and cure";
	UToday (University of Calgary on line news service), March 17 2016. https://www.ucalgary.ca/utoday/issue/2016-03-17/struggling-forget-memory-researcher-studies- ptsd-causes-and-cure
2.	UToday (University of Calgary on line news service), March 17 2016. https://www.ucalgary.ca/utoday/issue/2016-03-17/struggling-forget-memory-researcher-studies-
	UToday (University of Calgary on line news service), March 17 2016. https://www.ucalgary.ca/utoday/issue/2016-03-17/struggling-forget-memory-researcher-studies- ptsd-causes-and-cure Newspaper article. Title: "U of C studies marijuana link to possible PTSD cure"; Calgary Herald, March 17 2016. http://calgaryherald.com/health/u-of-c-studies-marijuana-link-to-
2.	UToday (University of Calgary on line news service), March 17 2016. https://www.ucalgary.ca/utoday/issue/2016-03-17/struggling-forget-memory-researcher-studies- ptsd-causes-and-cure Newspaper article. Title: "U of C studies marijuana link to possible PTSD cure"; Calgary Herald, March 17 2016. <u>http://calgaryherald.com/health/u-of-c-studies-marijuana-link-to- possible-ptsd-cure</u>
2.	 UToday (University of Calgary on line news service), March 17 2016. <u>https://www.ucalgary.ca/utoday/issue/2016-03-17/struggling-forget-memory-researcher-studies-ptsd-causes-and-cure</u> Newspaper article. Title: "U of C studies marijuana link to possible PTSD cure"; Calgary Herald, March 17 2016. <u>http://calgaryherald.com/health/u-of-c-studies-marijuana-link-to-possible-ptsd-cure</u> Newspaper article. Title: "Testing pot to help PTSD"; Calgary Sun, March 17 2016. On line video interview. Title: "Maria Morena, PhD"; AIHS Channel, March 17 2016.
2. 3. 4.	 UToday (University of Calgary on line news service), March 17 2016. https://www.ucalgary.ca/utoday/issue/2016-03-17/struggling-forget-memory-researcher-studies-ptsd-causes-and-cure Newspaper article. Title: "U of C studies marijuana link to possible PTSD cure"; Calgary Herald, March 17 2016. http://calgaryherald.com/health/u-of-c-studies-marijuana-link-to-possible-ptsd-cure Newspaper article. Title: "Testing pot to help PTSD"; Calgary Sun, March 17 2016. On line video interview. Title: "Maria Morena, PhD"; AIHS Channel, March 17 2016. https://www.youtube.com/watch?v=o5OgFcyn2l4&feature=youtu.be On line article. Title: "Da Teggiano al Canada per dare una mano alla scienza. La storia della ricercatrice Maria Morena Alla University of Calgary Maria studia per curare il Disturbo da Stress Post Traumatico"; OndaNews, March 29 2016. http://www.ondanews.it/da-teggiano-al-
	15. 16. 17. 18. More 1

- Radio interview. Radio Alfa, Salerno, Italy. Program: Salernitani nel mondo. Title: "Salernitani nel Mondo: la ricercatrice Maria Morena in Canada studia i meccanismi dei ricordi", March 30 2016. <u>https://www.youtube.com/watch?v=zFHIPPrZlbg</u>
- 9. Radio interview. **CKUA**, Edmonton (AB), Canada. Program: Innovation Anthology. Title: "Brain research into ptsd memories", April 5 2016
- Magazine article. Title: "Wiping out the fear, using our brain chemistry to help battle PTSD". Apple magazine, Summer 2016, issue 22, page 37. <u>http://www.applemag-digital.com/applemag/summer_2016?pg=37#pg37</u>

Date

12-11-2020

Signature