

ALLEGATO A

UNIVERSITÀ DEGLI STUDI DI MILANO

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Luisa Ponzoni CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	PONZONI
NOME	LUISA
DATA DI NASCITA	20/04/1987

EDUCATION

2015: *Corso di Perfezionamento in: "Welfare of the laboratory animal and animal-care"*, Faculty of Veterinary Medicine (University of Milan, Italy). Coordinator: Prof. Fabio Luzi

2014: *PhD in Experimental and Clinical Pharmacological Sciences* (University of Milan, Italy). Title: "Ruolo dei recettori nicotinici centrali nell'addiction" e nella "dependence" da nicotina: potenziale strategia farmacologica di nuovi agonisti nicotinici parziali". Supervisor: Dr. Mariaelvina Sala

2011: *Master Degree in Biology Applied to Biomedical Research*, 110/110 *cum laude*, (University of Milan, Italy). Title: "Gli ormoni ipofisari modulano il comportamento sociale e l'ansia nello zebrafish attraverso un recettore oxytocin-like e V_{1a}-like"

2009: *Bachelor Degree in Biological Sciences* (University of Milan, Italy). Title: "Ruolo del recettore per la vasopressina nel comportamento sociale e nella memoria in topi mutant per il recettore dell'ossitocina come modello di studio dell'autismo"

ADDITIONAL TRAINING

2017: *Advanced course: "Genetic drift – What it is and how to minimize its impact on your research"* (Mario Negri, November 8, Milan, Italy)

2017: *Advanced course: "Guidelines for sizing experimental mouse colonies"* (Mario Negri, November 8, Milan, Italy)

2017: *Advanced course: “Advanced Imaging techniques”* (CNR, Institute of Neuroscience, September 29-30, Santa Margherita di Pula, Cagliari, Italy)

2016: *Advanced course: “Corso Introduttivo alla sperimentazione animale”* (Mario Negri, October 16-18, Milan, Italy)

2016: *Advanced course: “Il corretto utilizzo dell’animale da laboratorio”* (CNR, Institute of Neuroscience, September 14-16, Padova, Italy)

2004: European Computer Driving Licence (ECDL START)

Attestation de Réussite (DELFL Scolaire niveau 2) Centre d’examen de: Milan

Certificat de Réussite (DELFL Scolaire niveau 1) Centre d’examen de: Milan

CURRENT POSITION

2018 – present: *Post-doctoral fellow* (Zardi Gori Foundation), CNR, Institute of Neuroscience c/o Department of Medical Biotechnology and Translational Medicine, Via Vanvitelli 32, Milan (Italy). Supervisor: Dr. Cecilia Gotti. Project title: “Zebrafish as a model to study the involvement of oxytocin/arg-vasopressin system on the rewarding, pro-social and anxiolytic effects induced by 3,4 methylenedioxymethamphetamine (MDMA) derivatives and a possible gateway effect of nicotine on their rewarding properties”

FELLOWSHIPS

2018: *Post-doctoral fellow* (Gianfranco Ferro Foundation), CNR, Institute of Neuroscience c/o Department of Medical Biotechnology and Translational Medicine, Via Vanvitelli 32, Milan (Italy). Supervisor: Dr. Mariaelvina Sala. Project title: “Zebrafish as a model to study a possible gateway effect of nicotine on the rewarding properties of phenethylamines derivatives” (waived)

2017: *Post-doctoral fellow* (Umberto Veronesi Foundation) CNR, Institute of Neuroscience c/o Department of Medical Biotechnology and Translational Medicine, Via Vanvitelli 32, Milan (Italy). Supervisor: Dr. Mariaelvina Sala. Project title: “Behavioural and neurochemical changes induced by nicotine withdrawal using an innovative mouse model” (Second year)

2016: *Post-doctoral fellow* (Umberto Veronesi Foundation) CNR, Institute of Neuroscience c/o Department of Medical Biotechnology and Translational Medicine, Via Vanvitelli 32, Milan (Italy). Supervisor: Dr. Mariaelvina Sala. Project title: “Behavioural and neurochemical changes induced by nicotine withdrawal using an innovative mouse model” (First year)

2015: *Post-doctoral fellow* (Società Italiana di Farmacologia, SIF), University of Milan, Department of Medical Biotechnology and Translational Medicine, Via Vanvitelli 32, Milan (Italy). Supervisor: Dr. Mariaelvina Sala. Project title: “A new mouse model to study through electronic or conventional cigarette smoke: I) Nicotine dependence and its relief with a new nicotinic partial agonist; II) The altered sensitivity to rewarding effects of Δ^9 -tetrahydrocannabinol”

2012 – 2013 - 2014: *PhD fellow* (Fondazione Fratelli Confalonieri), University of Milan, Department of Medical Biotechnology and Translational Medicine, Via Vanvitelli 32, Milan (Italy). Supervisor: Dr. Cecilia Gotti. Project title: “In vivo study of the role of nicotinic receptor in the mesostriatal and visual pathway”

PROFESSIONAL EXPERIENCES

2016: researcher visiting at the Department of Cellular Biology of the Queen Mary University in London. In particular she followed the research in the field of Neurobiology and Behaviour on drug addiction using zebrafish as model system (Dr. Caroline Brennan).

2012: researcher visiting for learning immunocytochemistry techniques (University of Reggio Emilia and Modena – Laboratory directed by Prof. Zoli Michele)

AWARDS:

- 1) “Best poster presentation” Poster title: *Prosocial and anxiolytic effect of two synthetic phenethylamines in zebrafish: role of 5-HT_{2A/C} subtype receptors*, 38° Congresso Nazionale della Società Italiana di Farmacologia: Farmaci, Salute e Qualità della Vita, Rimini, October 24-28, 2017 – 500 €
- 2) Travel grant: “Convegno intersocietario tra cinque Società di Farmacologia dell'area del Mediterraneo” (Società italiana, francese, portoghese, spagnola e greca) - Santiago de Compostela, Spagna, June 19-22, 2018 – 500 €

SCIENTIFIC AFFILIATIONS

Member of Italian Society of Neurosciences

Member of Italian Society of Pharmacology

SUPERVISION OF GRADUATE STUDENTS

2015 – 2018 Technical assistance to 10 Master students in *Biology Applied to Biomedical Research*, University of Milan, Department of Medical Biotechnology and Translational Medicine, Via Vanvitelli 32, Milan (Italy).

TEACHING ACTIVITIES

2012-2014 Technical assistance to practical exercises within the course “Metodologie Farmacologiche e tossicologiche” for Biological Sciences, University of Milan (Dr. Mariaelvina Sala)

2017, April 8: Researcher in school project (Umberto Veronesi Foundation). Lesson title: “Behavioural and neurochemical changes induced by nicotine withdrawal using an innovative mouse model”,

2016, June 6: Researcher in school project (Umberto Veronesi Foundation). Lesson title: “Electronic cigarettes effects”

COLLABORATIONS

- Prof. M. Matteoli, CNR Institute of Neuroscience, Milan
- Dr. Carlo Sala, CNR Institute of Neuroscience, Milan
- Dr. Chiara VerPELLI, CNR Institute of Neuroscience, Milan
- Dr. Maria Passafaro, CNR Institute of Neuroscience, Milan
- Dr. Silvia Bassani, CNR Institute of Neuroscience, Milan
- Dr. Claudia Verderio, CNR Institute of Neuroscience, Milan
- Prof. Elena Battaglioli, University of Milan, BIOMETRA, Milan
- Prof. Francesco Clementi, University of Milan
- Prof. Fabrizio Gardoni, University of Milan, DISFEB, Milan
- Dr. Elena Marcello, University of Milan, DISFEB, Milan
- Prof. Mario Clerici, University of Milan, Policlinico, Milan
- Dr. Linda Pattini, Politecnico of Milan, Department of Electronics, Information and Bioengineering, Milan
- Prof. Michele Zoli, University of Modena and Reggio Emilia, Department of Biomedical, Metabolic and Neural Sciences, Center for Neuroscience and Neurotechnology, Modena
- Dr. Dmitry Lim, University of Piemonte Orientale, Department of Pharmaceutical Sciences, Novara
- Dr. Alan Langus, SISSA/ISAS – International School for Advanced Studies, Trieste

- Roger L. Papke, University of Florida College of Medicine Gainesville, Department of Pharmacology and Therapeutics, Florida
- Andrea Falqui, King Abdullah University for Science and Technology (KAUST), Biological and Environmental Sciences and Engineering (BESE) Division, Kingdom of Saudi Arabia.
- Dr. Massimo Mantegazza, Université Côte d'Azur, Institute of Molecular and Cellular Pharmacology (IPMC), Valbonne
- Dr. Tobias Boeckers, Ulm University, Institute for Anatomy and Cell Biology, Ulm
- Prof. Flavia Valtorta, San Raffaele Scientific Institute and Vita-Salute University, Neuropsychopharmacology Unit, Division of Neuroscience, Milan

ON-GOING GRANTS

Project title	Founding source	Amount (Euros)	Period	Role
Pharmacologic and genetic modulation of mGLU5 receptor to improve neurological defects in the Phelan–Dermid syndrome (PI: Dr. Chiara Verpelli)	Telethon, Italy, 2016 call	307.240 €	2017 - 2019	Collaborator
Increased Sarcopenia in a cohort of elderly carrying SNAP25 polymorphisms: mechanistic insights from the SNAP25 heterozygous murine model. (PI: Dr. Guerini Franca)	CARIPLO Foundation (Milan, 2017 call	400.000 €	2018 - 2020	Collaborator
Genetic and pharmacological rescue of TM4SF2 loss of function in animal model and iPS cells (PI: Dr. Maria Passafaro)	Telethon, Italy, 2017 call	219.000 €	2018 - 2020	Collaborator
Solving the puzzle of protocadherin-19 mosaicism to	Telethon, Italy, 2017 call	240.000 €	2018 - 2020	Collaborator

understand the pathophysiology of PCDH19 Female Epilepsy (PCDH19-FE) (PI: Dr. Silvia Bassani)				
Rescuing epilepsy associated with SYN1 gene mutations by inhibiting eEF2K/eEF2 pathway (PI: Dr. Carlo Sala)	Telethon, Italy, 2017 call	189.500 €	2018 - 2020	Collaborator

SUBMITTED GRANT APPLICATIONS

Project title	Founding source	Amount (Euros)	Period	Role	
Molecular and cellular mechanisms of electronic cigarette dependence and gateway to cannabis use	Cariplo Foundation-biomedical research conducted by for young researchers, 2016	250.000 €	2017 - 2018	PI	Not funded
Mechanisms of nicotine addiction: a realistic innovative mouse model for studying the addictive effects of nicotine exposure via cigarette smoke or electronic devices	CARIPLO Foundation, 2013	300.000 €	2014 - 2015	Collaborator	Not funded
Role of endocannabinoids and related molecules in tobacco dependence	PRIN 2015	977.329 €	2016-2018	Collaborator	Not funded

SCIENTIFIC PUBLICATIONS

(Google Scholar)

H-index= 11

Total Citations= 230

Total publications= 22

Total first name publications= 5

Total impact factor= 127.1982

- 1)Matera C, Dondio G, Braida D, **Ponzone L**, De Amici M, Sala M, Dallanoe C *In vivo and in vitro admet profiling and in vivo pharmacodynamic investigations of a selective α_7 nicotinic acetylcholine receptor agonist with a spirocyclic Δ^2 -isoxazoline molecular skeleton* EUR J PHARMACOL, 2018, doi: 10.1016/j.ejphar.2017.12.047
IF: 2,54
- 2)Murru L, Vezzoli E, Longatti A, **Ponzone L**, Falqui A, Folci A, Moretto E, Bianchi V, Braida D, Sala M, D'Adamo P, Bassani S, Francolini M, Passafaro M *Ampa receptors modulation rescues intellectual disability-like phenotype in Tm4sf^{-/-} mice* CEREBRAL CORTEX, 2017, 27(11):5369-5384
IF: 6,559
N. citations: 1
- 3)**Ponzone L**, Braida D, Bondiolotti G, Sala M. *The non-peptide Arginine-Vasopressin V_{1a} selective receptor antagonist, SR49059, blocks the rewarding, prosocial and anxiolytic effects of 3,4 Methylenedioxymethamphetamine and its derivatives in zebrafish* FRONTIERS IN PSYCHIATRY, 8:146, 2017, 8:146
IF: 3,532
- 4)Montani C, Ramos-Brossier M, **Ponzone L**, Gritti L, Cwetsch AW, Braida D, Saillour Y, Terragni B, Mantegazza M, Sala M, Verpelli C, Billuart P, Sala C *The X-linked intellectual disability protein IL1RAPL1 regulates dendrite complexity* JOURNAL OF NEUROSCIENCE, 2017, 3775-3716
IF = 5.988
N. citations: 3
- 5)Vicidomini C, **Ponzone L**, Lim D, Schmeisser MJ, Reim D, Morello N, Orellana D, Tozzi A, Durante V, Scalmani P, Mantegazza M, Genazzani AA, Giustetto M, Sala M, Calabresi P, Boeckers TM, Sala C, Verpelli C *Homer1b/c clustering is impaired in Phelan-McDermid Syndrome iPSCs derived neurons* MOLECULAR PSYCHIATRY, 2017, 22(5): 637
IF = 13.204
N. citations: 1

- 6) Joshi P, Gabrielli M, **Ponzoni L**, Pelucchi S, Stravalaci M, Beeg M, Mazzitelli S, Braida D, Sala M, Boda E, Buffo A, Gobbi M, Gardoni F, Matteoli M, Marcello E, Verderio C *Fingolimod limits acute $\alpha\beta$ neurotoxicity by favouring synaptic versus extrasynaptic nmda receptor functionality in hippocampal neurons* SCIENTIFIC REPORTS, 2017, 7:41734
IF:4.259
N. citations: 0

- 7) Zapata J, Moretto E, Hannan S, Murru L, Benedetti L, Mazza D, Fossati M, Bassani S, Heise C, **Ponzoni L**, Valnegri P, Braida D, Sala M, Francolini M, Hildebrand J, Kalscheuer V, Sala C, Bettler B, Smart T and Passafaro M *Shrm4, a protein implicated in neurological disorders, drives GABA_B receptors to dendrites through the dynein motor* NATURE COMMUNICATIONS, 2017, 8:14536
IF:12.124
N. citations: 1

- 8) **Ponzoni L**, Sala M, Braida D *5-HT_{2A/C} Ritanserin-sensitive receptors modulate the prosocial and the anxiolytic effect of MDMA derivatives, DOB and PMA, in zebrafish* BEHAVIOURAL BRAIN RESEARCH, 2016, 314:181-9
IF:3,002
N. citations: 6

- 9) **Ponzoni L**, Braida D, Sala M *Abuse potential of methylenedioxymethamphetamine (MDMA) and its derivatives in zebrafish: role of serotonin 5HT₂-type receptors* PSYCHOPHARMACOLOGY, 2016, 233(15-16):3031-9
IF: 3,308
N. citations: 4

- 10) Vicidomini C, **Ponzoni L**, Lim D, Schmeisser MJ, Reim D, Morello N, Orellana D, Tozzi A, Durante V, Scalmani P, Mantegazza M, Genazzani AA, Giustetto M, Sala M, Calabresi P, Boeckers TM, Sala C, VerPELLI C. *Pharmacological enhancement of mGlu5 receptors rescues behavioral deficits in SHANK3 knock-out mice* MOLECULAR PSYCHIATRY, 2016, 22(5):689-702
IF:13.204
N. citations: 22

- 11) Heise C*, Taha E*, Murru L*, **Ponzoni L**, Cattaneo A, Guarnieri FC, Montani C, Mossa A, Vezzoli E, Ippolito G, Zapata J, Berrera I, Ryazanov AG, Cook J, Poe M, Stephen M, Kopanitsa M, Benfante R, Braida D, Francolini M, Proud C, Valtorta F, Passafaro M, Sala M, Bachi A, VerPELLI C, Rosenblum K, Sala C *eEF2K/eEF2 pathway controls dentate gyrus dependent behavior and excitation-inhibition balance* CEREBRAL CORTEX, 2016, 27(3):2226-2248
IF:6.559
N. citations: 12

- 12) Rusconi F, Grillo B*, **Ponzoni L***, Bassani S, Toffolo E, Paganini L, Mallei A, Braida D, Passafaro M, Popoli M, Sala M, Battaglioli E *LSD1 modulates stress-evoked transcription of Immediate Early Genes and emotional behavior* PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, 2016, 113 (13), 3651-3656
IF: 9,661
N. citations: 15

- 13) Folci A, Murru L, Vezzoli E, **Ponzoni L**, Gerosa L, Moretto E, Longo F, Zapata J, Braida D, Pistillo F, Bähler M, Francolini M, Sala M, Bassani S. *Myosin IXa Binds AMPAR and Regulates Synaptic Structure, LTP, and Cognitive Function* FRONTIERS IN MOLECULAR NEUROSCIENCE, 2016, 9-1
IF: 5.076
N. citations: 2

- 14) Braida D, **Ponzoni L**, Matteoli M, Sala M *Different attentional abilities among inbred mice strains using Virtual Object Recognition task (VORT): SNAP25+/- mice as a model of attentional deficit* BEHAVIOURAL BRAIN RESEARCH, 2016, 296: 393-400
IF: 3,002
N. citations: 2

- 15) **Ponzoni L**, Moretti M, Sala M, Fasoli F, Muchietto V, Lucini V, Cannazza G, Gallesi D, Castellana CN, Clementi F, Zoli M, Gotti C, Braida D *Different physiological and behavioural effects of e-cigarette vapour and cigarette smoke in mice* EUROPEAN NEUROPSYCHOPHARMACOLOGY, 2015, 25(10): 1775-1786
IF: 4.409
N. citations: 25

- 16) Braida D, Guerini F R, **Ponzoni L**, Corradini I, De Astis S, Pattini L, Bolognesi E, Benfante R, Fornasari D, Chiappedi M, Ghezzi A, Clerici M, Matteoli M, Sala M *Association between SNAP-25 gene polymorphisms and cognition in Autism: functional consequences and potential therapeutic strategies* TRANSLATIONAL PSYCHIATRY, 2015, 5(1), e500
IF: 5,538
N. citations: 29

- 17) **Ponzoni L**, Braida D, Pucci L, Donzelli A, Fasoli F, Manfredi I, Papke RL, Stokes C, Cannazza G, Clementi F, Gotti C, Sala M *The cytosine derivatives, CC4 and CC26, reduce nicotine-induced conditioned place preference in zebrafish by acting on heteromeric neuronal nicotinic acetylcholine receptors* PSYCHOPHARMACOLOGY, 2014, 231(24): 4681-4693
IF: 3,875
N. citations: 11

- 18) Rusconi F, Paganini L, Braida D, **Ponzoni L**, Toffolo E, Maroli A, Landsberger N, Bedogni F, Turco E, Pattini L, Altruda F, De Biasi S, Sala M, Battaglioli E *LSD1 neurospecific*

alternative splicing controls neuronal excitability in mouse models of epilepsy CEREBRAL CORTEX, 2014, 25(9):2729-40

IF: 8.665

N. citations: 27

- 19) Braida D, **Ponzoni L**, Martucci R, Sala M. *A new model to study visual attention in zebrafish* PROGRESS IN NEUROPSYCHOPHARMACOLOGY & BIOLOGICAL PSYCHIATRY, 2014, 55: 80-86

IF: 3,689

N. citations: 21

- 20) Braida D, **Ponzoni L**, Martucci R, Sparatore F, Gotti C, Sala M. *Role of neuronal nicotinic acetylcholine receptors (nAChRs) on learning and memory in zebrafish*. PSYCHOPHARMACOLOGY, 2014, 231:1975-1985

IF: 3.875

N. citations: 22

- 21) Braida D, Donzelli A, Martucci R, **Ponzoni L**, Pauletti A, Langus A, Sala M. *Mice discriminate between stationary and moving 2D shapes: Application to the object recognition task to increase attention*. BEHAVIOURAL BRAIN RESEARCH, 2013, 242:95-101

IF: 3,391

N. citations: 12

- 22) Braida D, Donzelli A, Martucci R, **Ponzoni L**, Pauletti A, Sala M. *Neurohypophyseal hormones protect against pentylenetetrazole-induced seizures in zebrafish: Role of oxytocin-like and V1a-like receptor*. PEPTIDES, 2012, 37:327-333

IF: 2,522

N. citations: 14

*equal contribution

CHAPTER BOOK

- 1) **Ponzoni L**, Sala M, Braida D *Zebrafish: a model to study nicotinic drugs on spatial memory and visual attention* NEUROMETHODS 117, SPRINGER PROTOCOLS "NICOTINIC ACETHYLCHOLINE RECEPTOR TECHNOLOGIES", Humana Press, Springer Nature 2016
- 2) Braida D, **Ponzoni L**, Verpelli C, Sala M *Visual object recognition task, a translational paradigm to evaluate sustained attention across species* HANDBOOK OF OBJECT NOVELTY RECOGNITION, Vol 26, Academic Press 2019

PUBLICATIONS IN PREPARATION

- 1) Armentano M, Garzotto D, Sarò G, Zamboni V, Berto G, Germena G, Costa C, Elisa E, Ghigo A, Parmigiani E, Rossi F, Yanagawa Y, Obata K, El-Assawi N, Mauro A, Priano L, Sala M, **Ponzoni L**, Hirsch E, Merlo GR ArhGAP15-dependent hyperactivity of the Rho-GTPase Rac1 results in higher actin dynamic, affects migration and stratification of cortical interneurons and leads to spontaneous epilepsy (in preparation)
- 2) Leonzino M*, **Ponzoni L***, Braidà D, Ceresini I, Busnelli M, Nishimori K, Sala M, Chini B *Striatal alterations and impaired approach to novelty in the oxytocin receptor deficient mouse model of autism* (in preparation)
- 3) Cirnaru MD, Pischedda F, **Ponzoni L**, Perez Carrion M, Spinelli G, Longo F, Arcuri L, Belluzzi E, Morari M, Greggio E, Bandopadhyay R, Sala M, Piccoli G *Overexpression of Parkinson's disease-associated mutation LRRK2 G2019S in mouse induces behavioural deficits and protein aggregation* (in preparation)

POSTER PRESENTATIONS

- 1) Pagano J, Mossa A, **Ponzoni L**, Tozzi A, Sala M, Calabresi P, Boeckers TM, Sala C, Verpelli C *Severe impaired synaptic transmission in the Shank1/Shank3 double knock out mouse* 6th European synapse meeting, Milan, December 4-6, 2017
- 2) Giona F, **Ponzoni L**, Lim D, Tozzi A, Genazzani AA, Sala M, Calabresi P, Boeckers TM, Lindsley CW, Jones CK, Sala C, Verpelli C *Rescuing behavioral deficits in Shank3 knock-out mice by pharmacological enhancement of mGlu5 receptor activity* 6th European synapse meeting, Milan, December 4-6, 2017
- 3) Mossa A, **Ponzoni L**, Tozzi A, Sala M, Calabresi P, Boeckers TM, Sala C, Verpelli C *Severe impaired synaptic transmission in the Shank1/Shank3 double knock out mouse* Neuroscience, Washington, November 11-15, 2017
- 4) Longatti A, Murru L, **Ponzoni L**, Moretto E, Sala M, Passafaro M *ArhGAP22 is a new regulator of spines development and function* Neuroscience, Washington, November 11-15, 2017
- 5) **Ponzoni L**, D. Braidà, M. Sala *Prosocial and anxiolytic effect of two synthetic phenethylamines in zebrafish: role of 5-HT_{2A/C} subtype receptors* Rimini, October 24-28, 2017
- 6) **Ponzoni L**, Braidà D, Moretti M, Clementi F, Sala M, Gotti C *Behavioural and neurochemical changes induced by Δ^9 -tetrahydrocannabinol in mice pre-exposed to nicotine* Retreat CNR, Santa Margherita di Pula (Cagliari), September 28-30, 2017

- 7) L. Murru, E. Vezzoli, A. Longatti, **L. Ponzoni**, A. Falqui, A. Folci, E. Moretto, V. Bianchi, D. Braidà, M. Sala, P. D'Adamo, S. Bassani, M. Francolini, M. Passafaro *Pharmacological modulation of AMPAR rescues intellectual disability-like phenotype in Tm4sf2-/y mice* Cerebral Cortex 1-16, 2017
- 8) L. Gritti, **L. Ponzoni**, P. Scalmani, M. Mantegazza, M. Sala, C. Verpelli, C. Sala *Development of a novel antiepileptic therapy for dravet syndrome by targeting the EEF2K/EEF2 pathway* Journal of Neurochemistry, 142: 187-188, 2017
- 9) C. Gotti, **L. Ponzoni**, M. Moretti, F. Fasoli, D. Braidà, M. Zoli, M. Sala *Electronic cigarette and cigarette exposure induce altered response to Δ^9 -tetrahydrocannabinol-induced conditioned place preference* Nicotinic Acetylcholine Receptors, Crete, May 7-11, 2017
- 10) B. Grillo, A. Longaretti, C. Forastieri, E. Toffolo, **L. Ponzoni**, M. Sala, F. Rusconi, E. Battaglioli *New strategies to target hyper-excitability in Rett syndrome* Neuro-nest, Milan, March 12, 2017
- 11) A. Longatti, L. Murru, **L. Ponzoni**, D. Braidà, M. Sala, M. Passafaro *RHOGAP2 functional and molecular characterization in adult mouse brain* Forum of Neuroscience, 2016
- 12) **L. Ponzoni**, M. Moretti, G. Cannazza, M. Zoli, M. Sala, C. Gotti, D. Braidà *Chronic nicotine exposure through electronic or standard cigarettes affects the rewarding properties of Δ^9 -tetrahydrocannabinol (THC)* Workshop BIOMETRA, Milan, September 26, 2016
- 13) **L. Ponzoni**, M. Moretti, G. Cannazza, M. Zoli, M. Sala, C. Gotti, D. Braidà *Increased susceptibility to the rewarding effect of Δ^9 -tetrahydrocannabinol (THC) after chronic nicotine exposure through electronic or standard cigarettes* XIX SEMINARIO SIF per Dottorandi, Assegnisti di ricerca, Postdottorandi e Specializzandi, Rimini, September 20-22, 2016
- 14) D. Braidà, **L. Ponzoni**, M. Sala *MDMA, DOB and PMA induce rewarding and behavioural changes through serotonergic system in zebrafish* Retreat CNR, Padova, September 13-16, 2016
- 15) **L. Ponzoni**, D. Braidà, M. Moretti, F. Clementi, M. Sala, C. Gotti *Behavioural and neurochemical changes induced by Δ^9 -tetrahydrocannabinol in mice pre-exposed to nicotine*, Retreat CNR, Padova, September 13-16, 2016
- 16) D. Cirnaru, **L. Ponzoni**, A. Marte, L. Civiero, I. Russo, F. Longo, M. Morari, F. Onofri, E. Greggio, M.E. Sala, G. Piccoli *Parkinson's disease at the synaptic site: short and long term impact of pathological Irrk2 kinase activity* 10th FENS Forum of Neuroscience, Copenhagen, July 2-6, 2016
- 16) S. Ferrara, G. Fossati, C. Zalfa, F. Antonucci, **L. Ponzoni**, M. Sala, A.L. Vescovi, M. Matteoli, E. Menna *Characterization of the defective functional and molecular processes in*

a mouse model of Polymicrogyria 10th FENS Forum of Neuroscience, Copenhagen, July 2-6, 2016

- 17) A. Longatti, **L. Ponzoni**, D. Braidà, M. Sala, M. Passafaro *Rho gap2 functional and molecular characterization in adult mouse brain* 10th FENS Forum of Neuroscience, Copenhagen, July 2-6, 2016
- 18) A. Mossa, **L. Ponzoni**, M. Sala, C. Sala, C. Verpelli *Characterization of the neuronal alterations in the shank1/shank3 double knockout mouse as animal model for shankopathies* 10th FENS Forum of Neuroscience, Copenhagen, July 2-6, 2016
- 19) P. Joshi, M. Gabrielli, **L. Ponzoni**, S. Pelucchi, M. Stravalaci, M. Beeg, S. Mazzitelli, B. Braidà, M. Sala, E. Boda, A. Buffo, M. Gobbi, F. Gardoni, M. Matteoli, E. Marcello, C. Verderio *Protective action of fingolimod against acute A beta neurotoxicity by rapid synaptic relocation of NMDA receptor in hippocampal neurons* Journal of Alzheimers disease, January, 2016
- 20) **L. Ponzoni**, D. Braidà, M. Moretti, M. Zoli, C. Gotti, M. Sala *Exposure to standard cigarette smoke or electronic cigarette vapour induce short and long term behavioural alterations and a high sensitivity to low doses of Δ^9 -Tetrahydrocannabinol*, 37° Congresso Nazionale della Società Italiana di Farmacologia "I nuovi orizzonti della ricerca farmacologica: tra etica e scienza", Naples, October 27-30, 2015
- 21) A. Mossa, **L. Ponzoni**, L. Culotta, M. Sala, C. Sala, C. Verpelli *Characterization of the neuronal alterations in the Shank1/Shank3 double knock out mouse as animal model for shankopathies* Cagliari XVI Congress of the Italian Society for Neuroscience, Cagliari, October 8-11, 2015
- 22) A. Longatti, J. Zapata, E. Moretto, S. Hannan, L. Murru, D. Mazza, L. Benedetti, **L. Ponzoni**, D. Braidà, M. Sala, M. Francolini, J. Hildebrand, C. Sala, B. Bettler, S. Bassani, T.G. Smart, M. Passafaro: *A novel interaction involving SHRM4 and GABABRs shapes inhibitory neurotransmission in the brain*, Retreat CNR, Pisa, May 13-15, 2015
- 23) C. Vicidomini, M. Schmeisser, D. Lim, **L. Ponzoni**, L. Culotta, P. Scalmani, M. Mantegazza, C. Sala, A.A. Genazzani *Identification of neuronal alterations underlying SHANK3 mutations and their rescue by pharmacological therapies in animal models and patients' derived iPS cells*, Retreat CNR, Pisa May 13-15, 2015
- 24) F. Rusconi, B. Grillo, **L. Ponzoni**, S. Bassani, E. Toffolo, L. Paganini, M. Sala, E. Battaglioli *Deciphering the epigenetic code of anxiety: role of LSD1 in stress response*, Retreat CNR, Pisa, May 13-15, 2015
- 25) S. Ferrara, G. Fossati, C. Zalfa, F. Antonucci, **L. Ponzoni**, M. Sala, A. Vescovi, M. Matteoli, E. Menna: *Exploitation of neural stem cells as possible therapeutic strategy for*

reduced myelination and increased brain inflammation in Polymicrogyria, Retreat CNR, Pisa, May 13-15, 2015

- 26) **L. Ponzoni**, D. Braidà, C. Gotti, M. Sala: *Withdrawal from electronic cigarette vapour exposure elicits short and long-term behavioural effects in mice* SIF Monotematico: Addictive disorders: from neurobiology to novel therapeutics strategies, Palermo, March 27-28, 2015
- 27) **L. Ponzoni**, D. Braidà, M. Sala: *Short and long-term behavioural effects of nicotine withdrawal induced by electronic cigarette vapor, compared to standard cigarette smoke*. Seminario dottorandi e assegnisti SIF, Rimini, September 16-18, 2014
- 28) **L. Ponzoni**, D. Braidà, M. Sala: *Assessing attention in zebrafish (Danio rerio) through a modified version of Novel object recognition test using two iPods*. FENS Forum of Neuroscience, Milan, July 5-9, 2014
- 29) **L. Ponzoni**, D. Braidà, M. Moretti, F. Fasoli, M. Zoli, C. Gotti, M. Sala: *Effects of tobacco or e-cigarette smoke, delivered through a mechanical ventilator, on brain nicotinic acetylcholine receptor expression and mice behaviour*. FENS Forum of Neuroscience, Milan, July 5-9, 2014
- 30) D. Braidà, **L. Ponzoni**, I. Corradini, R. Benfante, D. Fornasari, M. Clerici, F.R. Guerini, M. Matteoli, M. Sala: *Correlation between SNAP-25 alteration and cognitive deficits in mice and children*. FENS Forum of Neuroscience, Milan, July 5-9, 2014
- 31) **L. Ponzoni**, D. Braidà, I. Corradini, M. Matteoli, M. Sala: *Adolescent SNAP-25 heterozygous (SNAP-25^{+/-}) mice show hyperactivity, cognitive deficits and epileptiform activity: Chronic valproate as therapeutic strategy*. SIF Monotematico: Mood Disorders: from Neurobiology to Novel Therapeutic strategies, Modena, March 20-21, 2014.
- 32) **L. Ponzoni**, D. Braidà, R. Martucci, C. Gotti, M. Sala. *An innovative mouse model of nicotine addiction: behavioural and biochemical correlates* Convegno monotematico SIF: Old and New drugs of abuse: tematiche ed approcci dalla ricerca farmacologica italiana, Verona November 28-29, 2013
- 33) D. Braidà, **L. Ponzoni**, R. Martucci, E. Focchi, I. Corradini, M. Matteoli, M. Sala. *Chronic valproate restores hyperactivity, cognitive deficits and epileptiform activity in adolescent SNAP-25 heterozygous (SNAP-25^{+/-}) mice*. Neuroscience, San Diego, CA U.S.A, November 9-13, 2013
- 34) **L. Ponzoni**, D. Braidà, R. Martucci, C. Gotti, M. Sala. *A realistic innovative mouse model for studying the addictive effects of nicotine exposure via cigarette smoke* 36° Congresso nazionale della Società italiana di farmacologia: Il ruolo della ricerca farmacologica per la CRESCITA e la SALUTE in Italia; Torino, October 23-26, 2013

- 35) R. Martucci, D. Braidà, **L. Ponzoni**, M. Sala. *A new Novel object recognition task based on stationary and moving 2D shapes applied to mice and zebrafish* 36° Congresso nazionale della Società italiana di farmacologia: Il ruolo della ricerca farmacologica per la crescita e la salute in Italia; Torino, October 23-26, 2013
- 36) E. Focchi, I. Corradini, **L. Ponzoni**, R. Martucci, D. Braidà, M. Sala, M. Matteoli *Prenatal inflammation in SNAP25 HET: a paradigm of gene-environment interactions?* XV Congress of the Italian Society of Neuroscience (S.I.N.S.), Angelicum congress centre Università S. Tommaso d'Aquino – Largo Angelicum, 1 Rome, October 3-5, 2013
- 37) M. Sala, D. Braidà, R. Martucci, C. Gotti, **L. Ponzoni**. *Behavioural approach to neuropsychiatric and neurologic diseases* Retreat dell'Istituto di Neuroscienze del CNR. Hotel Flamingo, Santa Margherita di Pula (Cagliari), September 18-20, 2013.
- 38) D. Braidà, R. Martucci, **L. Ponzoni**, M. Sala *Approccio comportamentale allo studio di malattie neuropsichiatriche e neurologiche* Humanitas Milano, July 2, 2013.
- 39) **L. Ponzoni**, D. Braidà, A. Donzelli, R. Martucci, A. Pauletti, S. C. Gotti and M. Sala. *1,2-bis N-cytisinyethane (CC4), a new nicotinic partial agonist, blocks nicotine-induced conditioned place preference in zebrafish, through an $\alpha 4$ based mechanism* XVI seminario nazionale per dottorandi in farmacologia e scienze affini Rimini, September 17-19, 2012.
- 40) R. Martucci, D. Braidà, A. Donzelli, **L. Ponzoni**, A. Pauletti, C. Gotti and M. Sala. *Modulation of spatial memory by cholinergic drugs* XVI seminario nazionale per dottorandi in farmacologia e scienze affini Rimini, September 17-19, 2012.
- 41) A. Donzelli, D. Braidà, R. Martucci, **L. Ponzoni**, A. Pauletti, S. De Astis, M. Matteoli and M. Sala. *Adolescents SNAP-25+/- mice as ADHD animal model: possible therapeutic action of sodium valproate* XVI seminario nazionale per dottorandi in farmacologia e scienze affini. Rimini, September 17-19, 2012.
- 42) A. Donzelli, D. Braidà, R. Martucci, **L. Ponzoni**, A. Pauletti and M. Sala *Neuroprotection by neurohypophyseal hormones on pentylenetetrazol-induced seizures in zebrafish* Neuroscience 2012, New Orleans U.S.A., October 13-17, 2012.

INVITED ORAL PRESENTATIONS

- 1) *The electronic cigarettes effects*, Press review “World no tobacco day” organized by Istituto Nazionale dei Tumori at Circolo della Stampa, Milan, 2016, May 25
- 2) *Increased susceptibility to the rewarding effect of Δ^9 -tetrahydrocannabinol (THC) after chronic nicotine exposure through electronic or standard cigarettes* XIX SEMINARIO SIF per

Dottorandi, Assegnisti di ricerca, Postdottorandi e Specializzandi, Rimini, 2016, September 20-22

TECHNICAL SKILLS

Animal models of drug dependence: Conditioned Place Preference, Conditioned taste aversion, intracerebroventricular self-administration in Skinner-box.

Animal models of cognitive deficit: active avoidance, passive avoidance, latent inhibition, conditioned taste aversion, radial-maze, T-maze, water maze, cross-maze, novel and spatial object recognition, social-novelty, nest building.

Animal models of anxiety and depression: elevated plus-maze, light-dark test, marble burying test, novelty suppressed feeding test, hole-board, forced swim test, tail-suspension.

Animal models of pain: Hot Plate, Randall Selitto, Formalin test, Tail Flick, Plantar test

Behavioural screening of transgenic mice.

Electroencephalographic recordings.

Behavioural studies in zebrafish (memory, social behavior, motor activity, emotional behavior).

Injection in specific rodents brain areas of adenovirus (rna-interference)

Protein and enzymatic assays

Use of **cryostat** and **cryotomo**

Immunocytochemistry techniques, autoradiography, western blot analysis, protein quantification

Data

22/02/2018

Luogo

Milano