

# FRANCESCO PAPALEO, Ph.D.

## *Curriculum Vitae*

**Date and Place of Birth:** November 12, 1977, Scicli (RG), Italy  
**Nationality:** Italian  
**Languages Spoken:** Italian, French, English.  
**Office Address:** Dipartimento di Scienze del Farmaco,  
Universita' degli Studi di Padova,  
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## EDUCATION / WORK EXPERIENCE

**January 2013- present:** Adjunct Faculty Investigator, Lieber Institute for Brain Development. Baltimore, MD, USA.

**December 2011- present:** Researcher, Department of Pharmacological Sciences, University of Padova, Italy.

**June 2009- present:** Team Leader, Neuroscience and Brain Technologies Department, Istituto Italiano di Tecnologia, Genova, Italy.

**September 2005- August 2010:** Visiting Fellow, Clinical Brain Disorders Branch, National Institute of Mental Health, NIH, Bethesda, USA. Supervisors: Dr. Daniel R. Weinberger and Dr. Jacqueline N. Crawley.

**January 2005- August 2005:** “Assistant Associé”, University of Bordeaux 2, France, “Laboratoire Homéostasie-Allostasie-Pathologie” (Dir.: Professor Guy Simonnet). Supervisors: Professor Antoine Tabarin and Dr. Angelo Contarino.

**July 2004- December 2004:** Researcher, “Laboratoire Homéostasie-Allostasie-Pathologie” (Dir.: Professor Guy Simonnet), University of Bordeaux, France. Supervisors: Professor Antoine Tabarin and Dr. Angelo Contarino.

**September 2003- July 2004:** Researcher, INSERM Unit 588, “Laboratoire de Physiopathologie du Comportement” (Dir.: Dr. Pier Vincenzo Piazza), Bordeaux, France. Supervisor: Dr. Angelo Contarino.

**January 2002- March 2005:** PhD Student in Pharmacology and Toxicology, University of Padova, Italy. Thesis title: *Opposite roles for CRF/CRF<sub>1</sub> receptor pathways in somatic and affective components of the opiate withdrawal syndrome*. Supervisor: Dr. Angelo Contarino.

**December 2000- November 2001:** Pharmacist. S. Chiara pharmacy. Vicenza, Italy. Supervisor: Dr. Paolo Pretto.

**October 1996- November 2001:** Pharmacy graduate studies (110/110 *cum Laude*), University of Padova, Italy. Thesis title: *Mice deficient for Corticotropin-releasing factor receptor 1 show physical but not affective signs of opiate withdrawal*. Supervisors: Professor Pietro Giusti and Dr. Angelo Contarino.

## GRANTS

**January 2013- December 2014:** Principal Investigator. Roche Postdoc Fellowship Program; title: “D2L/S-dysbindin genetic interaction: towards early detection and personalized interventions for cognitive deficits and schizophrenia”.

**January 2013- December 2015:** Principal Investigator. Ricerca Finalizzata Giovani Ricercatori 2010 - Ministero Salute – project GR-2010-2315883, title: “Schizophrenia pathogenetic mechanisms associated to dysbindin dysfunctions in fly and mouse models”.

**September 2010- September 2014:** Principal Investigator. Marie Curie FP7-Reintegration-Grants Call identifier: FP7-PEOPLE-2010-RG Grant N° 268247 – “SCHIZOGENES”.

**August 2008-August 2010:** Principal Investigator. NIMH Julius Axelrod Memorial Fellowship Training Award. Behavioral characterization of genetically modified mice for schizophrenia-associated susceptibility genes.

## AWARDS AND HONORS

**November 2012:** Winter Conference on Brain Research Travel Fellowship Award.

**May 2009:** award as a Preceptor in the Howard Hughes Medical Institute Student Internship Program.

**August 2008:** two-year NIMH Julius Axelrod Memorial Fellowship Training Award.

**May 2008:** award as a Preceptor in the Howard Hughes Medical Institute Student Internship Program.

**May 2007:** mentor to prize winner of the American Academy of Neurology (AAN) Neuroscience Research Prize; Boston, annual meeting of the AAN.

**September 2005- August 2010:** fellowship, National Institute of Mental Health, NIH, USA.

**January 2002- December 2004:** doctoral fellowship, pharmacology program, University of Padova, Italy.

**October 2003:** scholarship from the Italian Society of Pharmacology.

## **PUBLICATIONS**

1 Carr GV, Jenkins KA, Weinberger DR, **Papaleo F**. Loss of dysbindin-1 in mice impairs reward-based operant learning by increasing impulsive and compulsive behavior. *Behav Brain Res*. 2013 Mar 15;241:173-84. doi: 10.1016/j.bbr.2012.12.021. Epub 2012 Dec 20. IF: 3.417.

2 **Papaleo F**, Erickson L, Liu G, Chen J, Weinberger DR. Effects of sex and COMT genotype on environmentally modulated cognitive control in mice. *Proc Natl Acad Sci U S A*. 2012 Dec 4;109(49):20160-5. doi: 10.1073/pnas.1214397109. Epub 2012 Nov 19. IF: 9.681.

3 Armando M, Saba R, Monducci E, **Papaleo F**, Dario C, Righetti V, Brandizzi M, Fiori P. Subtypes of psychotic-like experiences in a community sample of young adults: socio-demographic correlates and substance use. *Rivista di Psichiatria*, 2012, 47, 5: 424-431. IF: 0.235.

4 Law AJ, Wang Y, Sei Y, O'Donnell P, Piantadosi P, **Papaleo F**, Straub RE, Huang W, Thomas CJ, Vakkalanka R, Besterman AD, Lipska BK, Hyde TM, Harrison PJ, Kleinman JE, Weinberger DR. Neuregulin 1-ErbB4-PI3K signaling in schizophrenia and phosphoinositide 3-kinase-p110 $\delta$  inhibition as a potential therapeutic strategy. *Proc Natl Acad Sci U S A*. 2012 Jun 11. [Epub ahead of print]. IF: 9.681.

5 Scheggia D, Sannino S, Scattoni ML, **Papaleo F**. COMT as a drug target for cognitive functions and dysfunctions. *CNS & Neurological Disorders-Drug Targets*. 2012 Apr 4. [Epub ahead of print]. IF: 3.810.

6 Armando M, **Papaleo F**, Vicari S. COMT implication in cognitive and psychiatric symptoms in chromosome 22q11 microdeletion syndrome. *CNS & Neurological Disorders-Drug Targets*. 2012 Apr 3. [Epub ahead of print]. IF: 3.810.

7 **Papaleo F**. COMT as a Drug Target for Nervous System Disorders. *CNS & Neurological Disorders-Drug Targets*. 2012 Apr 3. [Epub ahead of print]. IF: 3.810.

- 8 Ingallinesi M, Rouibi K, Le Moine C, **Papaleo F**, Contarino A. CRF<sub>2</sub> receptor-deficiency eliminates opiate withdrawal distress without impairing stress-coping. *Molecular Psychiatry*. 2012 Dec;17(12):1283-94. doi: 10.1038/mp.2011.119. Epub 2011 Sep 27. IF: 13.668.
- 9 **Papaleo F**, Silverman JL, Aney J, Tian Q, Barkan CL, Chadman KK, Crawley JN. Working memory deficits, increased anxiety-like traits and seizure susceptibility in BDNF overexpressing mice. *Learning & Memory*. 2011 Jul 26;18(8):534-44. Print 2011 Aug. IF: 4.219.
- 10 **Papaleo F**, Lipska BK, Weinberger DR. Mouse models of genetic effects on cognition: Relevance to schizophrenia. *Neuropharmacology*. 2012 Mar;62(3):1204-20. Epub 2011 May 5. IF: 4.814.
- 11 **Papaleo F**, Weinberger DR. Dysbindin and Schizophrenia: It's dopamine and glutamate all over again. *Biological Psychiatry*. 2011 January 1; 69(1): 2-4. IF: 8.283.
- 12 **Papaleo F**, Yang F, Garcia S, Chen J, Lu B, Crawley JN, Weinberger DR. Dysbindin-1 modulates prefrontal cortical activity and schizophrenia-like behaviors via dopamine/D2 pathways. *Molecular Psychiatry* 2012 Jan; 17(1):85-98. doi: 10.1038/mp.2010.106. Epub 2010 Oct 19. IF: 15.470.
- 13 Ji Y, Yang F, **Papaleo F**, Wang HX, Gao WJ, Weinberger DR, Lu B. Role of dysbindin in dopamine receptor trafficking and cortical GABA function. *Proc Natl Acad Sci*. 2009 Nov 17; 106(46):19593-19598. Epub 2009 Nov 3. IF: 9.681.
- 14 **Papaleo F**, Chen J, Weinberger DR. Animal models of genetic effects on cognition, in: *The Genetics of Cognitive Neuroscience*. MIT press. 2009. Chapter 3, pages 51-94.
- 15 **Papaleo F**, Crawley JN, Song J, Lipska BK, Pickel J, Weinberger DR, Chen J. Genetic dissection of the role of Catechol-O-Methyltransferase in cognition and stress reactivity in mice. *J. Neurosci*. 2008 Aug 27; 28(35):8709-23. IF: 7.452.
- 16 **Papaleo F**, Ghozland S, Ingallinesi M, Roberts AJ, Koob GF, Contarino A. Disruption of the CRF<sub>2</sub> receptor pathway decreases the somatic expression of opiate withdrawal. *Neuropsychopharmacology*. 2008 Nov;33(12):2878-87. Epub 2008 Feb 20. IF: 7.991.
- 17 **Papaleo F**, Kieffer BL, Tabarin A, Contarino A. Decreased motivation to eat in  $\mu$ -opioid receptor-deficient mice. *European Journal of Neuroscience*. 2007 Jun; 25(11):3398-3405. IF: 3.631.
- 18 **Papaleo F**, Kitchener P, Contarino A. Disruption of the CRF/CRF<sub>1</sub> receptor stress system exacerbates the somatic signs of opiate withdrawal. *Neuron*. 2007 Feb 15;53(4):577-589. IF: 14.736.

19 **Papaleo F** and Contarino A. Gender- and morphine dose-linked expression of spontaneous somatic opiate withdrawal in mice. Behavioural Brain Research. 2006 Jun 3; 170(1):110-8. IF: 3.417.

20 Contarino A and **Papaleo F**. The corticotropin-releasing factor receptor-1 pathway mediates the negative affective states of opiate withdrawal. Proc Natl Acad Sci. 2005 Dec 20; 102(51):18649-18654. IF: 9.681.

## **EDITORIAL AND RELATED ACTIVITIES**

### **Guest Editor for:**

- CNS & Neurological Disorders-Drug Targets (CNSND-DT). Special issue: "Catechol-O-Methyltransferase as a drug target for nervous system disorders". 2012 May.

### **Editorial Advisory Board:**

- CNS & Neurological Disorders-Drug Targets (CNSND-DT).

### **Ad Hoc Reviewer for journals:**

- ACS Chemical Neuroscience.
- Behavioral Neuroscience.
- Behavioural Brain Research.
- Biological Psychiatry.
- British Journal of Pharmacology.
- CNS & Neurological Disorders-Drug Targets.
- Experimental Neurology.
- Expert Opinion On Drug Discovery.
- Learning & Memory.
- Neuropharmacology.
- Neuropsychopharmacology.
- Neuroscience Bulletin.
- Neuroscience & Biobehavioral Reviews.
- Journal of Neurochemistry.
- PLOS ONE.
- Psychopharmacology.
- Scientific Reports.
- Synapse.
- The International Journal of Neuropsychopharmacology.
- The Journal of Neuroscience.
- The Journal of Visualized Experiments (JoVE).
- Translational Psychiatry.

### **Ad Hoc Reviewer for grants:**

- "Futuro in Ricerca 2013". MIUR (Ministero dell'Istruzione, dell'Universita' e della Ricerca), Italy.
- Individual Research Grants from the National Medical Research Council, Singapore.
- Project SEED Grants; Istituto Italiano di Tecnologia, Italy.

## **TEACHING**

- 4-hour course on "Genetics of Schizophrenia: Modeling Madness in Mice". University of Catania, Italy. (May 2013).
- 40-hour course on "Pharmacology". For nurses and nursing students at the Medical School of the University of Padova, Treviso, Italy. (September 2012-December 2012).
- 9-hour course on "Studying cognition in mice". For PhD students in Neuroscience and Brain Technologies XXVII cycle. Istituto Italiano di Tecnologia, Genova, Italy (July 2012).
- 9-hour course on "Studying cognition in mice". For PhD students in Neuroscience and Brain Technologies XXVI cycle. Istituto Italiano di Tecnologia, Genova, Italy (September 2011).
- 9-hour course on "Studying cognition in mice". For PhD students in Neuroscience and Brain Technologies XXV cycle. Istituto Italiano di Tecnologia, Genova, Italy (September 2010).
- 3-hour course on "Role of corticotropin releasing factor receptor 1 in opiate withdrawal". For resident medical students in Pharmacology, University of Padova, Italy (November 2004).

## **INVITED LECTURES**

- Dysbindin-1 modulates cognitive deficits relevant to schizophrenia via dopamine pathways. Dopamine 2013. Alghero, Italy. (May 2013).
- Genetics of Schizophrenia: Modeling Madness in Mice. Incontro sulla Schizofrenia. University of Padova, Italy. (March 2013).
- Arc genetic disruption produces schizophrenia-like phenotypes in mice. 46<sup>th</sup> Annual Winter Conference on Brain Research. Breckenridge, CO, USA. (January 2013).
- Executive Functions and Social Behavior in Mice: Relevance to Schizophrenia. Università di Milano-Bicocca and A.O. San Gerardo. Milano and Monza, Italy (September 2012).
- Lectio Magistralis. COMT, Dysbindin and their interaction: implications for schizophrenia. Università degli Studi di Verona. Verona, Italy (August 2012).
- Chair and organizer of the Symposium "Modeling schizophrenia symptoms and neurobiology in mice". IBNS 21st Annual Meeting. Kailua-Kona, Hawaii, USA (June 2012).

- Development of cognitive deficits relevant to schizophrenia in COMT and Dysbindin mouse mutants. IBNS 21st Annual Meeting. Kailua-Kona, Hawaii, USA (June 2012).
- Schizophrenia: from basic research to clinical management. Animal models: genetic variations. University of Insubria. Busto Arsizio, Italy (February 2012).
- COMT, Dysbindin and their interaction: towards early detection and personalized interventions for schizophrenia-related cognitive deficits. F. Hoffmann-La Roche AG, Basel Switzerland (November 2011).
- Development of cognitive deficits relevant to schizophrenia in COMT and Dysbindin mouse mutants. Center for Neurosensory Disorders. UNC School of Dentistry; Chapel Hill, NC, USA (November 2011).
- Selecting Promising Animal Paradigms. Cognitive Neuroscience Treatment Research to Improve Cognition in Schizophrenia (CNTRICS). Washington, DC, USA (April 2011).
- Geni, ambiente e psicosi: dai modelli animali all'uomo. Società Italiana di Psicopatologia. PSICHIATRIA 2011: Vulnerabilità, esordi, intervento precoce. Roma, Italy (February 2011).
- COMT, dysbindin and their interaction: implications for schizophrenia. Séminaires de Neurobiologie, Institut des Neurosciences de Bordeaux, Bordeaux, France (September 2009).
- Disease models of genetic susceptibility for complex brain disorders. 42<sup>nd</sup> Annual Winter Conference on Brain Research, Colorado, USA (January 2009).
- COMT and Dysbindin: insights from genetic mouse models. Genes, Cognition and Psychosis Program/NIMH/NIH Seminar (October 2008).
- COMT and Dysbindin: insights from genetic mouse models. Italian Institute of Technology, IIT, Genova, Italy (October 2008).
- COMT and Dysbindin: insights from genetic mouse models. Istituto Superiore di Sanita', ISS, Roma, Italy (October 2008).
- COMT, Dysbindin and their interaction: insights from genetic mouse models. Clinical Brain Disorders Branch/NIMH/NIH (April 2008).
- Genetic dissection of the role of Catechol-O-Methyltransferase (*COMT*) in cognition and stress reactivity in mice. Italian Institute of Technology, IIT, Genova, Italy (April 2008).
- Genetic manipulation of Catechol-o-Methyltransferase (*COMT*) in mice affects specific cognitive processes. NIMH 11<sup>th</sup> Annual Scientific Retreat (September 2007).

## **POSTER PRESENTATIONS**

1. Managò F, Sannino S, Gainetdinov R, Wang K, **Papaleo F** (2013). Arc involvement in Schizophrenia-related symptoms in mice. Dopamine 2013, Alghero, Italy.
2. Huang H, Michetti C, Busnelli M, Giancardo L, Managò F, Sannino S, Scheggia D, Sona D, Murino V, Chini B, Scattoni ML, **Papaleo F** (2013). Intranasal Oxytocin effects in mice. Dopamine 2013, Alghero, Italy.
3. Mereu M, Scheggia D, **Papaleo F** (2013). Catechol-O-methyltransferase (COMT) modulates long-term memory in mice. Dopamine 2013, Alghero, Italy.
4. Sannino S, Gozzi A, Cerasa A, Scheggia D, Managò F, De Pietri Tonelli D, Bifone A, Spalletta G, Weinberger DR, **Papaleo F** (2013). Sex-specific effect of COMT on cortical anatomy. Dopamine 2013, Alghero, Italy.
5. Scheggia D, Kochlamazashvili G, Dityatev A, **Papaleo F** (2013). Dysbindin-1 genetic disruption modulates cognitive flexibility in mice. Dopamine 2013, Alghero, Italy.
6. Carr GV, Bebensee A, Tian Q, Chen J, **Papaleo F**, Weinberger DR (2012). KCNH2-3.1 transgenic mice exhibit deficits in object location memory. Society for Neuroscience 2012, Annual Meeting, New Orleans, USA.
7. Xun R, Carr GV, Tian Q, Sibley DR, Chen J, Weinberger DR, **Papaleo F** (2012). Working memory and recency memory in Dopamine D5 receptor knockout mice. Society for Neuroscience 2012, Annual Meeting, New Orleans, USA.
8. Scheggia D, **Papaleo F** (2012). A new task to study executive control in mice. IBNS 21st Annual Meeting. Kailua-Kona, Hawaii, USA
9. Scheggia D, Weinberger DR, **Papaleo F** (2012). A novel semi-automated Attentional Set Shifting Task for mice. 3rd Biennial Schizophrenia International Research Society Conference. Florence, Italy.
10. **Papaleo F**, Burdick MC, Callicott JH, Weinberger DR (2012). Epistatic interaction of COMT and DTNBP1 modulates working memory performance in mice and related prefrontal physiology in humans. 3rd Biennial Schizophrenia International Research Society Conference. Florence, Italy.
11. Scheggia D, Bebensee A, Benfenati F, Weinberger DR, **Papaleo F** (2011). Toward the automatization of the Attentional Set Shifting Task in mice. Society for Neuroscience 2011, Annual Meeting, Washington, DC, USA.
12. Carr GV, Sibley DR, Weinberger DR, **Papaleo F** (2011). Dopamine D5 receptor knockout mice display prefrontal cortex-dependent cognitive deficits. Society for Neuroscience 2011, Annual Meeting, Washington, DC, USA.
13. Bebensee A, Carr GV, Aney J, Chen J, **Papaleo F**, Weinberger DR (2011). Cognitive functions in KCNH2-3.1 transgenic mice. Society for Neuroscience 2011, Annual Meeting, Washington, DC, USA.
14. Burdick MC, Straub RE, **Papaleo F**, Kolachana B, Zhang F, Mattay VS, Weinberger DR, Callicott JH (2011). Genetic Interaction between COMT and Dysbindin Effects Prefrontal Cortex Function During a BOLD fMRI Working Memory Paradigm. Society of Biological Psychiatry, 66<sup>th</sup> Annual Meeting, San Francisco, CA, USA.
15. Huppe-Gourgues F, **Papaleo F**, Jingshan C, Weinberger DR, O'Donnell P (2010). Downregulation of D1 modulation of cell excitability in prefrontal pyramidal neurons in slices from val/val COMT mice. Society for Neuroscience 2010, Annual Meeting, San Diego, CA, USA.
16. Scheggia D, Garcia S, Benfenati F, Weinberger DR, **Papaleo F** (2010). Increased long-term memory functions in COMT Val-transgenic mice. 7<sup>th</sup> FENS forum of European Neuroscience. Amsterdam, The Netherlands.
17. **Papaleo F**, Jenkins KA, Weinberger DR, Law AJ (2010). Impaired Temporal Order Recognition Memory in Neuregulin 1 Type IV Transgenic Mice. International Behavioral Neuroscience Society 19th Annual Meeting, Villisimius, Sardinia, Italy.

18. **Papaleo F**, Chen J, Lu B, Crawley JN, Weinberger DR (2010). Genetic interaction between COMT and Dysbindin produce schizophrenia-like phenotypes. Società Italiana di Psicopatologia. PSICHIATRIA 2010: No Health Without Mental Health. Roma, Italy.
19. Wang Y, **Papaleo F**, Jenkins KA, Weinberger DR, Law AJ (2009). Transgenic over expression of Neuregulin 1, type IV regulates synaptic maturation in-vitro and impairs cortical function in mice. American College of Neuropsychopharmacology, 48<sup>th</sup> Annual Meeting, Hollywood, FL. USA.
20. **Papaleo F**, Chen J, Lu B, Crawley JN, Weinberger DR (2009). Genetic interaction between COMT and Dysbindin produce schizophrenia-like phenotypes. Neuroscience 2009, Annual Meeting, Chicago, IL, USA.
21. Garcia SJ, **Papaleo F**, Erickson L, Tian Q, Chen J, Crawley JN, Weinberger DR (2009). Working memory deficits in Catechol-O-Methyltransferase knockout female mice: opposite phenotype compared to male mice. Neuroscience 2009, Annual Meeting, Chicago, IL, USA.
22. Jenkins KA, **Papaleo F**, Chen J, Crawley JN, Weinberger DR, Law AJ (2009). Impaired Temporal Order Recognition Memory in Neuregulin 1 Type IV Transgenic Mice. NIMH 13<sup>th</sup> Annual Scientific Retreat, Gettysburg, PA, USA.
23. **Papaleo F**, Crawley JN, Chen J, Lu B, Weinberger DR (2008). Faster acquisition but not better performance of working memory, and increased startle, in dysbindin knockout mice. American College of Neuropsychopharmacology, 47<sup>th</sup> Annual Meeting, Scottsdale, AZ, USA.
24. **Papaleo F**, Crawley JN, Chen J, Lu B, Weinberger DR (2008). Improved working memory but increased stress responses in dysbindin knockout mice. NIMH 12<sup>th</sup> Annual Scientific Retreat, Gettysburg, PA, USA.
25. **Papaleo F**, Crawley JN, Lipska BK, Weinberger DR, Chen J (2008). Genetic dissection of the role of Catechol-O-Methyltransferase (COMT) in stress reactivity in mice. International Behavioral Neuroscience Society 17th Annual Meeting, St. Thomas - US Virgin Islands.
26. **Papaleo F**, Crawley JN, Lipska BK, Song J, Liu G, Pickel J, Weinberger DR, Chen J (2007). Evidence of evolutionary trade-off of cognitive and affective functions: from *in vitro* mutagenesis analyses on COMT genes and behavioral analyses on transgenic mice carrying human COMT transgene. American College of Neuropsychopharmacology, 46th Annual meeting, Boca Raton, FL, USA
27. **Papaleo F**, Crawley JN, Weinberger DR, Chen J (2007). Genetic manipulation of Catechol-o-Methyltransferase (COMT) in mice affects specific cognitive processes. Neuroscience 2007, Annual Meeting, San Diego, CA, USA.
28. Tabarin AC, **Papaleo F**, Kieffer BL, Contarino A (2007). The  $\mu$ -opioid receptor pathway mediates the motivational properties of food intake. Neuroscience 2007, Annual Meeting, San Diego, CA, USA.
29. Contarino A, Ghozland S, Ingallinesi M, Roberts AJ, Koob GF, **Papaleo F** (2007). Decreased somatic opiate withdrawal in CRF<sub>2</sub> receptor-deficient mice. Neuroscience 2007, Annual Meeting, San Diego, CA, USA.
30. Song J, Ye T, **Papaleo F**, Elkahloun A, Chen J, Lipska BK, Weinberger DR (2007). Gene Expression Profiles in Prefrontal Cortex of Catechol-o-methyltransferase (COMT) Knockout Mice. NIMH 11<sup>th</sup> Annual Scientific Retreat, Gettysburg, PA, USA.
31. Patnaik P, **Papaleo F**, Crawley JN, Weinberger DR, Chen J (2007). Investigating the Role of Catechol-o-Methyltransferase in Cognition and Psychosis through Transgenic Mice. American Academy of Neurology, 59th Annual Meeting, Boston, MA, USA.

32. Contarino A, **Papaleo F**, Kitchener P, Vale W, Piazza PV (2004). Absence of reward and sensitization induced by high cocaine doses in CRF<sub>1</sub> receptor-deficient mice. Neuroscience 2004, 34<sup>th</sup> Annual Meeting, San Diego, CA, USA.
33. **Papaleo F**, Ferrante D, Contarino A (2003). Spontaneous somatic morphine withdrawal: a gender, drug dose and time-course study in C57BL/6J mice. 10<sup>th</sup> Biennial EBPS Meeting, Antwerp, Belgium.
34. **Papaleo F**, Giusti P, Contarino A (2002). Valutazione della componente psichica della sindrome d'astinenza spontanea da morfina: studi sul topo. Società Italiana di Farmacologia. VII Convegno Monotematico Aspetti Neurochimici e Farmacologici delle Dipendenze. Capri, Italy.
35. **Papaleo F**, Contarino A (2002). Motivational Indices of Spontaneous Opiate Withdrawal in Mice. VI Seminario nazionale per dottorandi in Farmacologia e Scienze affini. Siena, Italy.

## MENTORING / STUDENTS

- Mentor/Supervisor of Dr. Maddalena Mereu. Post-doctoral fellow at the Dipartimento di Scienze del Farmaco, Università degli Studi di Padova, Padova, Italy (January 2013-present).
- Mentor/Supervisor of Giuliano Gentili. Doctoral course on "Farmacologia Molecolare e Cellulare", doctoral school on "Scienze Farmacologiche" (XXVIII cycle; January 2013-present).
- Mentor/Supervisor of Dr. Simone Guadagna. Post-doctoral fellow at the Department of Neuroscience and Brain Technologies, Istituto Italiano di Tecnologia, Genova, Italy (January 2013- present).
- Mentor/Supervisor of Mariasole Ciampoli. Doctoral course on "Neuroscience and brain technologies", doctoral school on "humanoid and life technologies" (XXVIII cycle; January 2013- present).
- Mentor/Supervisor of Dr. Francesca Manago'. Post-doctoral fellow at the Department of Neuroscience and Brain Technologies, Istituto Italiano di Tecnologia, Genova, Italy (January 2012- present).
- Mentor/Supervisor of Sara Sannino. Doctoral course on "Neuroscience and brain technologies", doctoral school on "humanoid and life technologies" (XXVII cycle; June 2011- present).
- Mentor/Supervisor of Huiping Huang. Doctoral Course on "Drug Discovery", Doctoral School of "Life and Humanoid Technologies" (XXVI cycle; November 2011- present).
- Mentor/Supervisor of Dr. Gregory V. Carr. Post-doctoral fellow at the Clinical Brain Disorders Branch; National Institute of Mental Health, NIH, Bethesda, USA (February 2010-present).
- Mentor/Supervisor of Diego Scheggia. Doctoral course on "Neuroscience and brain technologies", doctoral school on "humanoid and life technologies" (XXV cycle; January 2010- present).
- Mentor of: Audrey Bebensee (June 2010- June 2012). Kimberly A. Jenkins (June 2009- July 2010). Sheena J. Garcia (October 2008- August 2010). Jordan Aney (August 2009- July 2010). Lucy Erickson (June 2008- August 2009). Post-Baccalaureate NIH Intramural Research Training Award.

- Preceptor and Mentor of: Sara Khanal (June 2010- June 2011). Alex Clark (June 2009- June 2010). Edward Sullivan (June 2008- July 2009). Takele Telahun (June 2007- June 2008). Howard Hughes Medical Institute Student internship program.
- Mentor of: Brian Chang, (June 2007- January 2008). Payal Patnaik\* (June 2006- June 2007). Science, Mathematics, Computer Science Magnet Program, Montgomery Blair High School; \*Winner of the American Academy of Neurology's Neuroscience Research Prize 2007.
- Mentor of Carla Bes. Bethesda-Chevy Chase High School Internship program (June 2006- June 2007).
- Instructor and supervisor of several students in Murine behavioral models, Neuroscience program of the University of Bordeaux II, France (2004).
- Instructor of Silvia Principe, for Murine drug addiction models, student in Pharmaceutical Sciences of the University of Padova, Italy (2002-2003).
- Instructor of Denise Ferrante for Murine drug addiction models, student in Chemistry and Pharmaceutical Sciences, University of Padova, Italy (2002-2003).