

**ALLEGATO B****UNIVERSITÀ DEGLI STUDI DI MILANO**

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

COGNOME	CARTELLI
NOME	DANIELE
DATA DI NASCITA	18/7/1982

**Personal information**

First name(s)/Surname(s)

**Daniele Cartelli**

Address

Telephone/Mobile

E-mail

daniele.cartelli@gmail.com

Nationality

Italian

Date of Birth

18/07/1982

Gender

male

**Work experience**

**2017-ongoing.** Fellowship at the Fondazione IRCCS Istituto Neurologico Carlo Besta, in the laboratory of Prof. G. Lauria,

**2015.** 6 months stage in the laboratory of Dr Francolini (Department of Medical Biotechnology and translational Medicine, Università degli Studi di Milano, Milano, Italy) to learn the basis of electron microscopy and relative sample preparation.

**May 2011-April 2015** Post doc position at the Università degli Studi di Milano (Milano, Italy), with a research project entitled: "Microtubule dysfunction: is it the primary or an accessory culprit in MPTP model of Parkinson's disease?", under the supervision of Prof. G. Cappelletti

**2012.** 2 weeks in the laboratory of Dr Arnal (Grenoble Institut des Neurosciences, Grenoble, France) to perform VEDIC microscopy experiments on the effects of  $\alpha$ -Synuclein on microtubule dynamics

**May 2010-May 2011** Technician at CIMaINa (Multidisciplinary Center of Nanostructured Materials and Interfaces) for the use of the Laser Scanning Confocal Microscopy

**2006-2010** PhD student in Cellular and Molecular Biology

**2008.** Fellowship Lifelong Learning Programme Erasmus Placement: 3 months stage at the Chretien laboratory (Rennes, France), under the supervision of Isabelle Arnal to learn the VEDIC (Video Enhanced Differential Interference Contrast) microscopy technique.

## Education and training

**2017 Professional Biologist qualification (157/200)** at the Università degli Studi di Milano

**2010 PhD in Cellular and Molecular Biology** at the Università degli Studi di Milano (Milano, Italy), with a thesis entitled: “Microtubule dysfunctions in experimental models of Parkinson’s disease”, under the supervision of Dr. G. Cappelletti

**2006 Degree in Biology applied to Biomedical research (107/110)** at the Università degli Studi di Milano (Milano, Italy), with a thesis entitled: “Study on the involvement of microtubule dynamic in neurotoxin model of Parkinson’s disease”, under the supervision of Dr. G. Cappelletti

**2004 Bachelor in Biological Sciences (100/110)** at the Università degli Studi di Milano (Milano, Italy), with a thesis entitled: “Immunocytochemical analysis of the cholinergic innervations in the cerebral cortex of rodents”, under the supervision of Dr. A. Amadeo

## Personal skills and Competences

Mother Tongue(s)  
Other language(s)

Italian  
English

Social skills and Competences

Team work: I have worked in various types of teams from research teams to rugby team.

Technical skills and competences

Basic biochemical approach (SDS-PAGE and Western Blotting), circular dichroism and chromatography  
Immunofluorescence and immunohistochemistry  
Animal handling, perfusion and sectioning (vibratome and microtome), and brain dissection  
Cell culture and live cell imaging  
Confocal microscopy and experience with electron microscopy (transmission and scanning)  
Protein purification either from bacterial source (Synuclein and RB3-SLD) or brain sample (Tubulin)  
Tubulin-based in vitro experiments and VEDIC microscopy

Computer skills and competences

Basic Microsoft Office programs  
Image analyses and elaboration programs: competent with Image J and Adobe Photoshop and experience with PlusTipTracker and Imaris software.  
Experience with Statistical programs (SPSS and Statistica)

Driving

I hold a driving licence for both car and bike.

## Publications and bibliometric indicators

Author of 30 full-length publications in peer-reviewed international journals and 27 presentations at national and international meetings.

Bibliometric indicators:

- Total IF: 115.16
- Total citations: 558
- H-index: 14

Source Scopus-February 2019

Author of 30 papers on international journals with if (15 papers in the last 5 years); citations in the last 10 years: 558; H-index in the last 10 years: 13 (Scopus, February 2019)

First or co-first authorship: 10 papers

Corresponding or co-corresponding author in 6 papers

## Publications

1. **Inhibitors of tubulin polymerization: synthesis and biological evaluation of hybrids of vindoline, anhydrovinblastine and vinorelbine with thiocolchicine, podophyllotoxin and baccatin III.** Passarella D, Giardini A, Peretto B, Fontana G, Sacchetti A, Silvani A, Ronchi C, Cappelletti G, **Cartelli D**, Borlak J, Danieli B. *Bioorg Med Chem.* 2008 Jun 1;16(11):6269-85. **IF: 3.075**
2. **Semisynthesis of new D-seco-C-nor-taxane derivatives containing a polyfunctionalized furanosyl or cyclopentenyl or cyclopentyl C-ring.** Gelmi ML, Nava D, Leone S, Pellegrino S, Baldelli E, Zunino F, Cappelletti G, **Cartelli D**, Fontana G. *J Org Chem.* 2008 Nov 21;73(22):8893-900. **IF: 3.952**
3. **Pleiotropic effects of spastin on neurite growth depending on expression levels.** Riano E, Martignoni M, Mancuso G, **Cartelli D**, Crippa F, Toldo I, Siciliano G, Di Bella D, Taroni F, Bassi MT, Cappelletti G, Rugarli EI. *J Neurochem.* 2009 Mar; 108(5):1277-88. **IF: 3.999**
4. **Synthesis and biological evaluation of epothilone A dimeric compounds.** Passarella D, Comi D, Cappelletti G, **Cartelli D**, Gertsch J, Quesada AR, Borlak J, Altmann KH. *Bioorg Med Chem.* 2009 Nov;17(21):7435-40. **IF: 2.822**
5. **In silico design of tubulin-targeted antimitotic peptides.** Pieraccini S, Saladino G, Cappelletti G, **Cartelli D**, Francescato P, Speranza G, Manitto P, Sironi M. *Nature Chemistry* 2009 Nov; 1(8):642-648. **IF: 17.927**
6. **Synthesis and biological evaluation of novel thiocolchicine-podophyllotoxin conjugates.** Passarella D, Peretto B, Blasco y Yepes R, Cappelletti G, **Cartelli D**, Ronchi C, Snaith J,

- Fontana G, Danieli B, Borlak J. *Eur J Med Chem.* 2010 Jan;45(1):219-26. **IF: 3.193**
7. **Microtubule dysfunction precedes transport impairment and mitochondrial damage in MPP<sup>+</sup>-induced neurodegeneration.** Cartelli D, Ronchi C, Maggioni MG, Rodighiero S, Giavini E, Cappelletti G. *J. Neurochem.* 2010 Oct; 115: 247-258. **IF: 4.337**
  8. **Tubulin-guided dynamic combinatorial library of thiocolchicine-podophyllotoxin conjugates.** Cappelletti G, Cartelli D, Peretto B, Ventura M, Riccioli M, Colombo F, Snaith JS, Borrelli S, Passarella D. *TETRAHEDRON* 2011 Sep; 38:3754-3757. **IF: 3.025**
  9. **Mesenchymal Stromal Cells Primed with Paclitaxel Provide a New Approach for Cancer Therapy.** Pessina A, Bonomi A, Coccè V, Invernici G, Navone S, Cavicchini L, Sisto F, Ferrari M, Viganò L, Locatelli A, Ciusani E, Cappelletti G, Cartelli D, Arnaldo C, Parati E, Marfia G, Pallini R, Falchetti ML, Alessandri G. *PLoS One* 2011;6(12):e28321. **IF: 4.092**
  10. **Microtubule Destabilization Is Shared by Genetic and Idiopathic Parkinson's Disease Patient Fibroblasts.** Cartelli D, Goldwurm S, Casagrande F, Pezzoli G, Cappelletti G. *PLoS One* 2012; 7(5):e37467. **IF: 3.730**
  11. **Biofilm formation on nanostructured titanium oxide surfaces and a micro/nanofabrication-based preventive strategy using colloidal lithography.** Singh AJ, Vyas V, Salve TS, Cartelli D, Dellasega D, Podesta A, Milani P, Gade WN. *Biofabrication* 2012; 4:025001. **IF: 3.705**
  12. **Molecular dynamics and tubulin polymerization kinetics study on 1,14-heterofused taxanes: evidence of stabilization of the tubulin head-to-tail dimer-dimer interaction.** Contini A, Cappelletti G, Cartelli D, Fontana G, Gelmi ML. *Mol. BioSystems* 2012; 8:3254-3261. **IF: 3.350**
  13. **Investigation of *in vitro* cytotoxicity of the redox state of ionic iron in neuroblastoma cells.** Singh AV, Vyas V, Maontani E, Cartelli D, Parazzoli D, Oldani A, Zeri G, Orioli E, Gemmati D, Zamboni P. *Journal of Neurosciences in Rural Practice* 2012; 3:301-310. **IF: 0.70**
  14. **Centaurin- $\alpha_2$  Interacts with  $\beta$ -Tubulin and Stabilizes Microtubules.** Zuccotti P\*, Cartelli D\*, Stroppi M\*, Pandini V, Venturin M, Aliverti A, Battaglioli E, Cappelletti G, Riva P. *PLoS One* 2012; 7(12):e52867. **IF: 3.730**
  15. **Preparation of fluorescent tubulin dimers.** Riva E, Mattarella M, Borrelli S, Christodoulou MS, Cartelli D, Main M, Faulkner S, Sykes D, Cappelletti G, Snaith JS, Passarella D. *ChemPlusChem* 2013; 78:222-226. **IF: 3.242**
  16. **Microtubule alterations occur early in experimental parkinsonism and the microtubule stabilizer Epopthilone D is neuroprotective.** Cartelli D, Casagrande F, Busceti CL, Bucci D, Molinaro G, Traficante A, Passarella D, Giavini G,

- Pezzoli G, Battaglia G, Cappelletti G. *Scientific Reports* 2013; 3:1837. **IF: 5.078**
17. **9-Fluorenone-2-Carboxylic Acid as a Scaffold for Tubulin Interacting Compounds.** Calogero F, Borrelli S, Speciale G, Christodoulou MS, **Cartelli D**, Ballinari D, Sola F, Albanese C, Ciavolella A, Passarella D, Cappelletti G, Pieraccini S, Sironi M. *ChemPlusChem* 2013; 78:663-669. **IF: 3.242**
  18. **Neuritin 1 promotes neuronal migration.** Zito A\*, **Cartelli D\***, Cappelletti G, Cariboni A, Andrews W, Parnavelas J, Poletti A, Galbiati M. *Brain Structure and Function* 2014; 219:105-118. **IF: 5.618**
  19. **New class of squalene-based releasable nanoassemblies of paclitaxel, podophyllotoxin, camptothecin and epothilone** A. Borrelli S, Christodoulou MS, Ficarra I, Silvani A, Cappelletti G, **Cartelli D**, Damia G, Ricci F, Zucchetti M, Dosio F, Passarella D. *Eur J Med Chem* 2014; 85:179-190. **IF: 3.447**
  20. **Self-assembled squalene-based fluorescent heteronanoparticles .** Borrelli S, **Cartelli D**, Secundo F, Fumagalli G, Christodoulou MS, Borroni A, Perdicchia D, Dosio F, Milla P, Cappelletti G, Passarella D. *ChemPlusChem* 2015; 80:47-49. **IF: 2.836**
  21. **Linking microtubules to Parkinson's disease: The case of parkin.** Cappelletti G, Casagrande F, Calogero A, De Gregorio C, Pezzoli G, **Cartelli D**. *Biochemical Society Transactions* 2015; 43:292-296. **IF: 2.679**
  22. **Frataxin silencing alters microtubule stability in motor neurons: implications for Friedreich's Ataxia.** Piermarini E, **Cartelli D**, Pastore A, Tozzi G, Compagnucci C, Giorda E, D'Amico J, Petrini S, Bertini E, Cappelletti G, Piemonte F. *Human Molecular Genetics* 2016; 25: 4288-4301. **IF: 5.340**
  23.  **$\alpha$ -Synuclein is a novel microtubule dynamase.** **Cartelli D<sup>#</sup>**, Aliverti A, Barbiroli A, Santambrogio C, Ragg EM, Casagrande FVM, Cantele F, Beltramone S, Marangon J, De Gregorio C, Pandini V, Emanuele M, Chieragatti E, Pieraccini S, Holmqvist S, Bubacco L, Roybon L, Pezzoli G, Grandori R, Arnal I, Cappelletti G. *Scientific Reports* 2016; 6:33289. **IF: 4.259**
  24. **Microtubule destabilization paves the way to Parkinson's disease.** **Cartelli D<sup>#</sup>**, Cappelletti G. *Molecular Neurobiology* 2017; 54(9): 6762-6774. **IF: 6.190**
  25. **Microtubule-directed therapeutic strategy for neurodegenerative disorders: starting from the basis and looking on the emergences,** Cappelletti G, **Cartelli D**, Christodoulou M, Passarella D. *Current Pharmaceutical Design* 2017; 23: 784-808. **IF: 2.611**
  26.  **$\alpha$ -Synuclein regulates the partitioning between tubulin dimers and microtubules at neuronal growth cone.** **Cartelli D<sup>#</sup>**, Cappelletti G. *Communicative and Integrative Biology* 2016; 10:1, e1267076.

27. **Is the regulation of microtubule stability at the crossroad between aging and disease of dopaminergic neurons?** Cartelli D<sup>#</sup>, Cappelletti G. *Journal of Alzheimer's and Neurodegenerative disorders* 2017; 3:010.
28. **Microtubules: Are they the Inner Alpha-Beta of the Neuronal Machine?** Cartelli D<sup>#</sup>. *EC Neurology* 5.2 (2017): 35-36.
29. **Parkin absence accelerates microtubule aging in dopaminergic neurons.** Cartelli D<sup>\*#</sup>, Amadeo A<sup>\*</sup>, Calogero AM<sup>\*</sup>, Casagrande FVM, De Gregorio C, Gioria M, Kuzumaki N, Costa I, Sassone J, Ciammola A, Hattori N, Okano H, Goldwurm S, Roybon L, Pezzoli G, Cappelletti G. *Neurobiol. Aging* 2018; 61: 66-74. **IF: 5.117**
30. **Microtubule defects in mesenchymal stromal cells form Progressive Supranuclear Palsy patients.** Calogero AM<sup>\*</sup>, Viganò M, Budelli S, Cartelli D, Lazzari L, Lehenkari P, Canesi M, Giordano R, Cappelletti G, Pezzoli G,. *J. Cell. Mol. Medicine*, 2018; 22:2670-2679. **IF: 4.499**
31. **Microtubule stability is altered in 2,5-hexanedione-induced Parkinson's disease.** Casagrande F, Cartelli D, Calogero A, De Gregorio C, Marangon J, Canesi M, Pezzoli G, Cappelletti G. *In preparation*

\*equal contribution

#corresponding or co-corresponding author

- 8th International Conference AD/PD, Salzburg, Austria, March 14-18, 2007

**Neuronal microtubule dynamics as a novel target for the parkinsonism producing neurotoxin MPTP.**

Ronchi C, **Cartelli D**, Maggioni MG, Rodighiero S, Giavini E, Cappelletti G.

- 3rd Meeting on the Molecular Mechanism of Neurodegeneration, Milan, Italy, May 19-21, 2007

**Linking neuronal degeneration to microtubule dynamics by the parkinsonism toxin MPP<sup>+</sup>-mediated microtubule destabilization.**

**Cartelli D**, Ronchi C, Maggioni MG, Rodighiero S, Giavini E, Cappelletti G.

- Gruppo Embriologico Italiano 53° Congresso, Giardini-Naxos, Italia, 6-9 Giugno, 2007

**Ruolo di neuritina nel differenziamento neuronale indotto da NGF.**

Cappelletti G, Galbiati R, Ronchi C, Onesto E, **Cartelli D**, Giavini E, Poletti A.

- ELSO Proceedings, Dresden, Germany, September 1-4, 2007

**Enrichment in stable microtubules reveals dysfunction of microtubule dynamics occurring in Parkinson's disease models**

**Cartelli D**, Ronchi C, Maggioni MG, Molinaro G, Battaglia G, Giavini E, Cappelletti G.

- XIII National Congress of the Italian society for Neuroscience, Verona, Italy, September 27-30, 2007

**Neuritin (cpg15) enhances the differentiating effect of NGF on neuronal PC12 cells**

Galbiati M, Cappelletti G, Ronchi C, **Cartelli D**, Onesto E, Poletti A.

- ELSO Proceedings, Nice France, August 30-September 2, 2008

**Role of Neuritin (cpg15) on the NGF induced differentiation of neuronal PC12 cells**

Galbiati M, Cappelletti G, Onesto E, Ronchi C, **Cartelli D**, Rusmini P, Zito A, Poletti A.

- FISV, 10th Annual Congress, Riva del Garda, Italy, September 24-27, 2008

**Effect of different isoforms of cpg15 (neuritin) on differentiating PC12 cells**

Galbiati M, Cappelletti G, **Cartelli D**, Onesto E, Zito A, Poletti A.

- II Workshop COST, Action Inhibitors of angiogenesis: design, synthesis and biological exploitation, Favignana, October, 2008

**Insight into microtubule dynamics: from purified protein to cell**

Cappelletti G and **Cartelli D**.



- 4th Meeting on the Molecular Mechanism of Neurodegeneration, Milan, Italy, May 8-10, 2009

**Is Microtubule imbalance an early event in MPTP-induced neurodegeneration?**

**Cartelli D**, Molinaro G, Battaglia G, Busceti CL, Giavini E, Cappelletti G.

- European Human Genetics Conference, ACV, Vienna, Austria, May 23-26, 2009

**Searching for Centaurin- $\alpha$ 2 interacting proteins: evidence of interaction with tubulin- $\beta$**

Stropi M, Crippa M, Venturin M, **Cartelli D**, Cappelletti G, Battaglioli E, Riva P.

- FISV, 11st Annual Congress, Riva del Garda, Italy, September 23-25, 2009

**Centaurin- $\alpha$ 2 interacts with tubulin- $\beta$  through microtubules' anchoring**

Stropi M, Crippa M, **Cartelli D**, Cappelletti G, Venturin M, Battaglioli E, Riva P.

- XIII National Congress of the Italian society for Neuroscience, Milan, Italy, September 29- October 1, 2009

**Microtubule dynamics imbalance leads to axonal transport impairment in MPP<sup>+</sup>-treated PC12 cells**

**Cartelli D**, Toscano A, Giavini E, Cappelletti G.

- XIII National Congress of the Italian society for Neuroscience, Milan, Italy, September 29- October 1, 2009

**Protein tyrosine nitration: a beneficial or detrimental cue during neuronal differentiation**

Toscano A, **Cartelli D**, Ronchi C, Tedeschi G, Cappelletti G.

- XIII National Congress of the Italian society for Neuroscience, Milan, Italy, September 29- October 1, 2009

**Neuritin: a regulatory protein of neuronal migration**

Galbiati M, Cappelletti G, Zito A, **Cartelli D**, Cariboni A, Poletti A.

- EMBO Conference series, Microtubules: structure, regulation and functions, Heidelberg, Germany, June 2-5, 2010

**Microtubule dysfunction in experimental model of Parkinson's disease**

**Cartelli D**, Battaglia G, Cappelletti G.

- 5th Meeting on the Molecular Mechanism of Neurodegeneration, Milan, Italy, May 13-15, 2011

**Parkin absence impacts microtubule stability and axonal transport in knockout mice**

**Cartelli D**, Sassone J, Amadeo A, Ciammola A, Cappelletti G.

- 5th Meeting on the Molecular Mechanism of Neurodegeneration, Milan, Italy, May 13-15, 2011

**Microtubule stability is precociously affected in a mouse model of Parkinson's disease**

**Cartelli D**, Casagrande F, Battaglia G, Busceti C, Molinaro G, Cappelletti G.

- The 3rd EMBO meeting, Vienna, Austria, September 10-13, 2011

**$\alpha$ -Synuclein nucleates short microtubules**

**Cartelli D.**, Aliverti A., Barbiroli A., Bonomi F., Cappelletti G.

- EMBO Conference 2<sup>nd</sup> in a series, Microtubules: structure, regulation and functions, Heidelberg, Germany, May 23-26, 2012

**$\alpha$ -Synuclein promotes microtubule nucleation**

**Cartelli D.**, Gritti M., Aliverti A., Barbiroli A., Cappelletti G.

- EMBO Conference 2<sup>nd</sup> in a series, Microtubules: structure, regulation and functions, Heidelberg, Germany, May 23-26, 2012

**Parkin absence impacts microtubule stability and axonal transport in silenced neuronal cells and knockout mice**

Casagrande F. \*, **Cartelli D.** \*, Hanusova K., Amadeo A., Sassone J., and Cappelletti G.

- Federation of European Neuroscience Societies (FENS) Forum 2012, Barcelona, Spain, July 14-18, 2012

**Calcium-binding proteins in the nigrostriatal system of parkin knockout mice**

Amadeo A, **Cartelli D**, Casagrande F, Cappelletti G.

- SfN (Society for Neuroscience) NEUROSCIENCE 2012, New Orleans, (LA) USA, October 13-17, 2012

**Microtubule dysfunction in Parkinson's disease: the case of environmental neurotoxin 2,5-hexanedione**

Casagrande F, **Cartelli D**, Hanusova K, Goldwurm S, Canesi M, Pezzoli G, Cappelletti G.

- The 11th International Conference on Alzheimer's and Parkinson's Diseases, Florence, Italy, March 6-10, 2013

**Gene-environment interaction and microtubule dysfunction in Parkinson's disease: the case of Parkin and 2,5-hexanedione**

Casagrande F, **Cartelli D**, Ferrari M, Goldwurm S, Canesi M, Pezzoli G, Cappelletti G.

- The 11th International Conference on Alzheimer's and Parkinson's Diseases, Florence, Italy, March 6-10, 2013

**Microtubule alterations occur early in experimental parkinsonism and the microtubule stabilizer Epoposin D is neuroprotective**

**Cartelli D.**, Casagrande F., Battaglia G., Busceti C., Molinaro G., and Cappelletti G.

- SfN (Society for Neuroscience) NEUROSCIENCE 2013, San Diego, (CA) USA, November 9-13, 2013

**Microtubules are early altered in mice injected with 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) and treatment with the microtubule stabilizer Epoposin D is neuroprotective**

Cappelletti G, **Cartelli D**, Casagrande F, Busceti CL, Bucci D, Molinaro G, Traficante A, Passarella D, Giavini E, Pezzoli G, Battaglia G.

- EMBO Conference 3<sup>rd</sup> in a series, Microtubules: structure, regulation and functions, Heidelberg, Germany, May 28-31, 2014

**$\alpha$ -Synuclein is a microtubule dynamase**

**Cartelli D.**, Santambrogio C., Barbiroli A., Aliverti A., Grandori R., Arnal I., and Cappelletti G.

- EMBO Conference 3<sup>rd</sup> in a series, Microtubules: structure, regulation and functions, Heidelberg, Germany, May 28-31, 2014  
**Microtubule dynamics and axonal transport in neuronal cells: the role of Parkin**  
De Gregorio C. \*, **Cartelli D. \***, Casagrande F., Sassone J., and Cappelletti G.

## Courses

- Molecular and Cellular Neurobiology, Milan, Italy, June 2006
- 4<sup>o</sup> conference on “real time” PCR. Technological approaches in the post-genomic era: beyond “Real Time” PCR. Milan, Italy, September 2006
- New frontiers in biology: stem cells, scientific research and clinical applications, Milan, Italy, February 2007
- In vivo cellular migration and immunofluorescence, Milan, Italy, March 2007
- Time-lapse microscopy & live cell imaging course, Anacapri, Italy, May 2007
- Mechanisms of mitosis and cell division, Milan, Italy, September 2007
- Workshop on Mechanism and Dynamics of the cytoskeleton: microtubules, Milan, Italy, May 2009
- Cellular and Molecular Responses to Stress, Milan, Italy, June 2009
- XIV School on Pure and Applied Biophysics on Molecular Mechanisms of Neurodegeneration, Venice, Italy, January 2010
- Introductory course on animal experimentation, Milan, Italy, November 2017

**2008.** Fellowship Lifelong Learning Programme Erasmus Placement: 3 months stage at the Chretien laboratory (Rennes, France), under the supervision of Isabelle Arnal to learn the VEDIC (Video Enhanced Differential Interference Contrast) microscopy technique.

**2012.** 2 weeks in the laboratory of Dr Arnal (Grenoble Institut des Neurosciences, Grenoble, France) to perform VEDIC microscopy experiments on the effects of  $\alpha$ -Synuclein on microtubule dynamics

## Teaching experiences

- Course of “Histology”, in the faculty of osteopathy, for the academic year 2007-2008
- Laboratory of “Comparative Anatomy”, degree in Natural Sciences, from academic year 2009-2010 to academic year 2014-2015
- Seminar: “Live cell imaging: principles and applications in the study of cellular dynamics”, part of the course on “survey instruments for the study of cells and molecules” for the PhD students of the school of Morphological and Physiological Sciences, in the years 2009 and 2010
- Tutor of practical session of the “IX Practical course of confocal microscopy”, held by Fondazione Filarete-IFOM\_Leica microsystems, in the years 2015.
- Co-tutor of many experimental thesis:
  - **Rossi Federica**, degree in Natural Sciences, Academic Year 2006-2007: “Neuronal cell: university and school in the didactics experimentation”
  - **Rota Paola**, degree in Natural Sciences, Academic Year 2006-2007: “Nitric Oxide as mediator in the neuronal differentiation process”
  - **Scorza Stefano**, bachelor in Natural Sciences, Academic Year 2007-2008: “Nitric Oxide: positive modulator of neuronal differentiation”
  - **Trevisan Simone**, bachelor in Biological Sciences, Academic Year 2007-2008: “Characterization of the biological activity of anti-tubulin peptides”
  - **Toscano Arianna**, degree in Biology applied to Biomedical research, Academic Year 2007-2008: “Nitric Oxide and protein nitration: which role in neuronal differentiation?”
  - **Gritti Marta**, bachelor in Biological Sciences, Academic Year 2009-2010: “Molecular mechanisms involved in the MPP<sup>+</sup>-induced neurodegeneration: synergic action between mitochondrial damage and microtubular dysfunction”
  - **Urzi Alice**, bachelor in Biological Sciences, Academic Year 2009-2010: “From differentiation to neurodegeneration: a possible role of the  $\alpha$ -synuclein in the regulation of microtubule polymerization dynamics”
  - **Canuti Andrea**, degree in Biology applied to Biomedical research, Academic Year 2009-2010: “Analyses of the microtubular cytoskeleton in parkin knockout mice”
  - **Falcioni Viviana**, bachelor in Natural Sciences, Academic Year 2009-2010: “Nitric Oxide, protein nitration and neuronal differentiation: the role of the inhibition of the guanylate cyclase”
  - **Fumagalli Laura**, bachelor in Biological Sciences, Academic Year 2009-2010: “ $\alpha$ -synuclein effects on neuronal differentiation and microtubule stability”

- **Segreto Alberto**, degree in Biology applied to Biomedical research, Academic Year 2009-2010: “ $\alpha$ -synuclein: characterization of the interaction with tubulin *in vitro* and differentiated neuronal cells”
- **Lucano Ottavia**, bachelor in Biological Sciences, Academic Year 2010-2011: “ $\alpha$ -synuclein role during *in vitro* microtubule nucleation”
- **Limongi Laura**, bachelor in Natural Sciences, Academic Year 2010-2011: “Parkin role in the mitochondrial transport in differentiated neuronal cells”
- **Calcaterra Valerio**, bachelor in Natural Sciences, Academic Year 2010-2011: “Parkin role in the microtubule dynamics in differentiated neuronal cells”
- **Gritti Marta**, degree in Molecular Biology of the Cell, Academic Year 2011-2012: “Characterization of the interaction between  $\alpha$ -Synuclein and microtubules”
- **Ferretti Marta**, bachelor in Natural Sciences, Academic Year 2011-2012: “Characterization of cellular differentiation in primary embryonal mesencephalic cultures”
- **Antenucci Anna**, bachelor in Natural Sciences, Academic Year 2012-2013: “Differentiation of neuronal cells from mammalian mesencephalon: the role of *Parkin* gene”
- **Magri Marcella**, degree in Molecular Biotechnology and Bioinformatics, Academic Year 2013-2014: “Biochemical characterization of the interaction between  $\alpha$ -synuclein and tubulin/microtubules”
- **Costa Ilaria**, degree in Biology applied to Biomedical research, Academic Year 2013-2014: “Characterization of the nigrostriatal system in *Parkin* knockout mice”

Si autorizza il trattamento dei propri dati personali ai sensi del D. Lgs. n. 196 del 30/06/2003.

Il presente CV ha funzione di autocertificazione ai sensi del D.P.R. n. 445 del 28/12/2000.

Data

25/2/2019

Luogo

Milano