

DATE AND PLACE OF BIRTH

14/10/1974 Naples, Italy

CURRENT AFFILIATION

Institute of Biosciences and BioResources, IBBR
Department of Biology, Agriculture and Food Science
National Research Council (CNR)
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CURRENT POSITION

Head of the *C. elegans* Neurobiology Lab, at IBBR, CNR, Naples. Appointment as National Research Council (CNR) First Researcher/Primo Ricercatore.

EDUCATION

2004: Ph.D., Genetics, University of Naples “Federico II”.
2000: B.S., with a major 110/110 *summa cum laude* in Genetics, University of Naples “Federico II”.

PhD DISSERTATION

Dissertation title: *kal-1*, the *C. elegans* homolog of the gene responsible for the X-linked Kallmann Syndrome.
Dissertation advisor: Dr. Paolo Bazzicalupo.
Specialization: Genetics.
Cognate area: Neurobiology, Molecular Biology.

RESEARCH EXPERIENCE

1998-2000: Undergraduate research with P. Bazzicalupo at the International Institute of Genetics and Biophysics (IIGB), CNR, Naples, Italy.
2000-2004: Doctoral research with P. Bazzicalupo at the Institute of Genetics and Biophysics (IGB), CNR, Naples, Italy.
2004: Visiting postdoc (four months) with E.I. Rugarli at Telethon Institute of Genetics and Medicine (TIGEM), Naples, Italy.
2004-2007: Postdoctoral research with P. Bazzicalupo at the Institute of Genetics and Biophysics (IGB), CNR, Naples, Italy.
2005: Visiting postdoc (two months) with L. Tamagnone at the “Istituto per la Ricerca e la Cura del Cancro di Candiolo” (IRCC), Turin, Italy.
2007: Visiting postdoc (three months) with Arterra Bioscience srl, Naples, Italy.
2008-2010: CNR Staff Researcher with P. Bazzicalupo in the *C. elegans* Lab at the Institute of Genetics and Biophysics (IGB), CNR, Naples, Italy.
2008-2009: Visiting researcher (eight months) with M.A. Hilliard at the Queensland Brain Institute (QBI), University of Queensland, Brisbane, Australia.
2010-2013: CNR Researcher at the Institute of Genetics and Biophysics (IGB), CNR, Naples, Italy, head of the *C. elegans* Genetics Lab.

2014-2015: Consultancy agreement to establish a *C.elegans* facility at TIGEM, Pozzuoli, (Naples), Italy.

2014-2020: CNR Researcher at the Institute of Biosciences and BioResources (IBBR), CNR, Naples, Italy, head of the *C. elegans* Neurobiology Lab.

2021-present: CNR First Researcher at the Institute of Biosciences and BioResources (IBBR), CNR, Naples, Italy, head of the *C. elegans* Neurobiology Lab.

RESEARCH ACTIVITIES AND INTERESTS

I'm interested in using *C.elegans* to address fundamental questions in biology.

In particular, I have been involved in studying in *C.elegans* the molecular mechanisms regulating neuron function in normal and pathological conditions, with particular focus to:

- locomotion (Gallotta *et al.*, 2016; Di Giorgio *et al.*, 2017; Rizzo *et al.*, 2019; Mazzarella *et al.*, 2019; Faravelli *et al.*, 2019; Martinelli *et al.*, 2020; Rademacher *et al.*, 2020; Hensel *et al.*, 2021; Leone *et al.*, 2022; Di Rocco *et al.*, 2022; Chen *et al.*, 2022);
- chemosensation (Esposito *et al.*, 2010; Ballestriero *et al.*, 2016);
- mechanosensation (Illiano *et al.*, 2017; Tripodi *et al.*, 2020).

I have been also interested in the identification in *C. elegans* of the molecular mechanisms that allow neurons to develop, function and survive in the presence of the following biological and chemical insults:

- genetic mutations (Rugarli *et al.*, 2002; Cordeddu *et al.*, 2009; Flex *et al.*, 2014; Martinelli *et al.*, 2018; Ansaloni *et al.*, 2019; Poeta *et al.*, 2019; Drongitis *et al.*, 2022);
- oxidative stress (Di Martino *et al.*, 2020);
- drugs of abuse (Lanzo *et al.*, 2018);
- bioactive compounds produced by bacteria (Ballestriero *et al.*, 2014; Tedesco *et al.*, 2015; Tedesco *et al.*, 2016);
- spatial radiations (Onorato *et al.*, 2020).

I also contributed to the development of innovative interdisciplinary techniques using *C.elegans* regarding:

- neuron specific RNA-interference (Esposito *et al.*, 2007);
- microfluidics and imaging (Bianco *et al.*, 2015; de Carlos Càceres *et al.*, 2018);
- nanoparticles and drug carriers (Picciotto *et al.*, 2021; Adamo *et al.*, 2021; Picciotto *et al.*, 2022; Romano *et al.*, 2023).

All these results are also relevant for understanding the following human diseases and finding new drugs: Spinal Muscular Atrophy (Errico *et al.*, 2022) and other neuromuscular disorders; Hartsfield syndrome (Palumbo *et al.*, 2019); Alzheimer (Del Giudice *et al.*, 2022) Parkinson and Parkinsonisms; X-linked mental retardation; Amyloidosis; RASopathies; Kabuki Syndrome (Vandamme *et al.*, 2012); Wilson disease (Polishchuk *et al.*, 2019; Petruzzelli *et al.*, 2022); isolated hypogonadotropic hypogonadisms (Di Schiavi *et al.*, 2005; Di Schiavi *et al.*, 2013; Bonomi *et al.*, 2014; Palumbo *et al.*, 2019; Di Schiavi *et al.*, 2022); GNAO1-related disorders.

FELLOWSHIPS, HONORS AND AWARDS

2000: B.S. with a major 110/110 *summa cum laude*.

2000: Predoctoral fellowship from Italian Telethon Foundation.

2000: Ph.D. Fellowship from University of Naples "Federico II" and CNR.

2002: Rugarli et al., 2002 Paper selected by A. Prochiantz e G. Rougon from Faculty of 1000 as Must Read, F1000 Factor 4.8.

2002, 2003, 2004: Three short Fellowships (Premio di Studio) from Italian Telethon Foundation.

2004: Fellowship for a Practical Course in Sheffield (UK) from EMBO.

2004-2007: Postdoctoral Fellowship from Italian Telethon Foundation.

2007: Postdoctoral Fellowship from National Research Council (CNR).

2008: Short Term Mobility Fellowship from National Research Council (CNR).

2008: Travelling Fellowship from Disease Models and Mechanisms, Ed. The Company of Biologists.

2009-2011: Awarded as host laboratory of a PhD-Fellowship from IGB (CNR).

2010: Awarded as host laboratory of a Travelling Fellowship from MAE (Ministero degli Affari Esteri Italiano).

2011: Awarded as host laboratory of a Travelling Fellowship from ABCD (Associazione di Biologia Cellulare e del Differenziamento).

2011: Travelling Fellowship from National Research Council (CNR).

2011: 1st poster prize at the 6^o Meeting on *Molecular Mechanisms in Neurosciences*, Accademia Nazionale dei Lincei, Rome, 3-4 October.

2012: EMBO Short Term Mobility Fellowship to a PhD student hosted in the laboratory for a collaborative visit with Prof. H. Lu (Atlanta, USA).

2012: Armenise-Harvard Summer Fellowship to an undergraduate student hosted in the laboratory for a collaborative visit with Prof. Y. Zhang (Harvard University, USA).

2013: National Research Quality Assessment VQR 2004-2010 by ANVUR Agency of two papers published between 2008 and 2010: 1.8 over 2.0 (1 paper judged as Very Good in the Top 30% and 1 as Excellent in the Top 10%).

2014 and 2015: Awarded as host laboratory of two Summer Internships from RISE (Research Internships in Science and Engineering) Program of DAAD (German Academic Exchange Service).

2014-2019: Appointed Management Committee Member for Italy in the BMBS COST Action BM1408.

2015-2016: Awarded as host laboratory of a Post-Graduate Internship *Garanzia Giovani* funded by Regione Campania.

2016: Awarded as first among 17 projects funded by the Italian Telethon Foundation, Call 2016 (among a total of 279 applications).

2017: National Research Quality Assessment VQR 2011-2014 by ANVUR Agency of three papers published between 2011 and 2014: 1.8 over 3.0 (1 paper judged as Very Good in the Top 30% and 1 as Excellent in the Top 10%).

2018: Awarded as host laboratory of a Short Term Mobility Fellowship from BMBS COST Action BM1408.

2019-present: Appointed Member of the Scientific Committee of the Neapolitan Brain Group no-profit Association.

2020-2029: Awarded the National Scientific Qualification-*Abilitazione Scientifica Nazionale 2018-2020*- as Associate Professor in Molecular Biology, BIO/11, 05/E2.

2020: Awarded as Top Downloaded Paper 2018-2019 for paper Mazzarella *et al.*, 2019 recognized as one of the most read in Food Science & Nutrition, Wiley.

2020: Awarded the "Seed DISBA CNR prize 2020" (10000€) for project "Biorisorse sostenibili per la sintesi "verde" di quantum dots-BioProQuo".

2021: Awarded the "DISBA CNR prize 2021" for one of the three best papers of the Department "Nanoalgsomes: Introducing extracellular vesicles produced by microalgae".

2021: Awarded “Paper of the Month” of the German Anatomical Society for Hensel *et al.*, 2021.

2021: Awarded “ECNP Top Article” of the week Hensel *et al.*, 2021.

2022-2031: Awarded the National Scientific Qualification-*Abilitazione Scientifica Nazionale 2018-2020-* as Associate Professor in Physiology 05/D1.

2022: 1st poster prize at the Meeting on Motor Neuron Diseases - II edition, University of Turin, Turin, 4-5 November.

GRANTS

2008-2011: Multicentre Research Grant 656IT/cv2008.1224 from Compagnia di Sanpaolo, “Bando 2008 del Programma di Neuroscienze”, PI of IGB Unit (96000€), *“Molecular pathology of neuronal migration defects: the role of semaphorin signals”*.

2011-2014: MERIT Grant RBNE08LN4P_002 from CNR/MIUR, partner of IGB Unit (90000€), *“Approccio integrato clinico e sperimentale allo studio dell’invecchiamento cerebrale e delle malattie neurodegenerative.”*

2011-2016: Grant FaReBio di Qualità -Farmaci e reti Biotecnologiche di Qualità from Ministry of Economy, Coordinator of IGB Unit (118000€), *Un laboratorio senza mura di piccoli organismi modello per un programma innovativo di supporto alla produzione di farmaci biotecnologici e alla nuova tossicologia*

2012-2015: Grant BANDO RICERCA FINALIZZATA 2009 RF-2009-1475235 from Ministry of Health, PI of IGB Unit (105000€), *Motor neuron death in Spinal Muscular Atrophy (SMA): new animal models and innovative therapeutic strategies.*

2012-2020: Grant Misura 3.17-2008 from Regione Campania, Partner of IGB Unit, *Artificial Biological nose – NAQUA.*

2012-2016: BMBS COST Action BM1105 from European Community, partner of Italian Unit, *GnRH deficiency: Elucidation of the neuroendocrine control of human reproduction*

2013-2015: Grant Full Project GGP13107 from Italian Telethon Foundation, official collaborator as *C.elegans* expert with M.Tartaglia (ISS, Rome), *Basi molecolari della sindrome di noonan e di malattie genetiche correlate.*

2014-2016: Grant Exploratory Project GEP14141 from Italian Telethon Foundation, Partner of IBBR Unit, *Molecular and cellular underpinnings of the neurological phenotypes associated to mitochondrial citrate carrier (SLC25A1) deficiency.*

2014-2019: BMBS COST Action BM1408, from European Community, Member of the Management Committee representing Italy, *A collaborative European network of C. elegans early-stage researchers and young principal investigators (GENiE).*

2015-2017: Grant BANDO RICERCA SCIENTIFICA E TECNOLOGICA 2015 2015.03003.021 from Fondazione Cassa di Risparmio di Perugia, PI of IBBR-NA Unit (2000€), *Ibridi interspecifici di Lotus: nuovo materiale per l'alimentazione animale e per potenziali nuove formulazioni per l'alimentazione umana.*

2017: Grant BeHEARD Technology Prizes Rare Disease Challenge, PI of the project (2000\$), *proposal on Spinal Muscular Atrophy.*

2017-2020: Grant Full Project GGP16203 from Italian Telethon Foundation, Coordinator of the project (211500€), *Identification of new druggable targets and potential therapeutic compounds for Spinal Muscular Atrophy, using a C.elegans model of neurodegeneration*

2018-2022: Grant H2020-FETOPEN-1-2016-2017 801338 from European Community, WP leader (113230€), *Extracellular vesicles from a natural source for tailor-made nanomaterials.*

2018-2021: Grant Joint Bilateral Agreement CNR/RFBR from CNR, PI of Italian Unit (120000€), *Targeting mitochondria for drug discovery against copper toxicity.*

2020-present: Grant SMA-Europe Operating Grant 2019 22757, PI of Italian Unit (45000€), *A network-biology based approach for the development of SMN-independent treatments.*

2020-present: Grant H2020-FETOPEN-PROACTIVE–EIC-05 NUMBER 952183 from European Community, Task leader (194846€), *Biogenic organotropic wetsuits.*

2020-present: Grant PON RICERCA E INNOVAZIONE, PIANO STRALCIO 2015-2017 XXXVI CICLO, Decreto Direttoriale 30 luglio 2020, n. 1233, codice DOT1349897 from Italian Minister for University and Research, PI of IBBR Unit (85743€), *Identification of natural extracts with neuroprotective action for the development of nutraceuticals.*

2021-present: Grant Programme Vinci N° projet : C3-1701 from Université Franco Italienne, PI of Italian Unit, *Élucidation du lien entre la maturation de l'ARN et la neurodégénérescence par une analyse transcriptomique cellule spécifique chez C. elegans.*

2021-present: Grant CHARGE Syndrome Foundation Research Grant Program 2021 from Charge Foundation, WP leader (18500€), *Combining the power of C. elegans for genetic and drug screenings and in vitro models to study CHD7 and semaphorin interactions and identify novel pharmacological targets for CHARGE syndrome therapies.*

2022-present: Grant Bio-memory, from CNR-DISBA partner of IBBR-NA Unit (4000€), *La rete delle bio-banche del CNR per il bio-monitoraggio, la conservazione della biodiversità, la sostenibilità agro-alimentare e ambientale, e il benessere.*

2022-present: Research Grant AFM-TELETHON ANNUAL CALL FOR PROPOSALS 2022 from AFM-Telethon France, coordinator (80250€), *A combinatorial pharmacotherapeutic approach to counteract Spinal Muscular Atrophy.*

2022-present: Research Grant PNRR: M6/C2_CALL 2022 Full Proposal from Ministry of Health, PI of IBBR Unit (200000€), *Targeting miR129 as therapy for Amyotrophic Lateral Sclerosis.*

POSTERS PRESENTED AT MEETINGS AND WORKSHOPS

- Poster presented at *IX Telethon Scientific Convention*, Rimini, Italy, November 12-14, 2000: A *C. elegans* homolog of the human gene for X-linked Kallmann Syndrome.
- Poster presented at *European Worm Meeting*, Paestum (SA), Italy, May 18-21, 2002: Functional conservation between the human and nematode KAL proteins.
- Poster presented at *XI Telethon Scientific Convention*, Riva del Garda (TN), Italy, November 24-26, 2002: *Caenorhabditis elegans* as an animal model for X-linked Kallmann Syndrome.
- Poster presented at *EMBO Workshop “A decade of research on Semaphorins”*, Cargèse, France, June 3-7, 2003: Genetic interaction of semaphorin pathway genes and the *C. elegans* homolog of the Kallmann Syndrome gene.
- Poster presented at *14th International Worm Meeting*, UCLA, Los Angeles, USA, June 29- July 3, 2003: *kal-1* in epithelial morphogenesis and interaction with semaphorins.
- Poster presented at *XII Telethon Scientific Convention*, Riva del Garda (TN), Italy, November 23-25, 2003: *Caenorhabditis elegans* as an animal model for X-linked Kallmann Syndrome.
- Poster presented at *European Worm Meeting*, Interlaken, Switzerland, May 22-25, 2004: *kal-1* genetically interacts with Semaphorins in epithelial morphogenesis.
- Posters presented at *XIII Telethon Scientific Convention*, Salsomaggiore Terme (PR), Italy, March 6-8, 2005: -Kallmann Syndrome genes in *Caenorhabditis elegans* and *Drosophila melanogaster*; -The OPEN LABORATORY for the study of homologs of disease genes in *C. elegans* and *D. melanogaster*.

- Poster presented at *15th International Worm Meeting*, UCLA, Los Angeles, USA, June 25-30, 2005: *kal-1* function in *C. elegans*.
- Posters presented at *VIII FISV Annual Meeting*, Riva del Garda (TN), Italy, September 28-October 1, 2006: *-kal-1* function in *C. elegans*; -Analyses of the interactors of *kal-1*, the *C. elegans* homolog of the gene responsible for X-linked Kallmann Syndrome.
- Poster presented at *XIV Telethon Scientific Convention*, Salsomaggiore Terme (PR), Italy, March 12-14, 2007: Kallmann Syndrome genes in *Caenorhabditis elegans* and *Drosophila melanogaster*.
- Poster presented at *Spring 2007 ABCD and UK Adhesion Society Meeting*, Rome, Italy, March 30-31, 2007: Analyses of *KAL-1* function in *C.elegans*.
- Poster presented at *III Meeting on the "Molecular Mechanisms of Neurodegeneration"*, Milan, Italy, May 19-21, 2007: *C.elegans* as a model for axonal degeneration.
- Posters presented at *16th International Worm Meeting*, UCLA, Los Angeles, USA, June 27- July 1, 2007: -Insights into the mechanism of action of *kal-1*, the *C. elegans* homolog of the gene responsible for X-linked Kallmann Syndrome. -Efficient and cell specific knock-down of gene function in targeted *C. elegans* neurons. *-kal-1* function in *C. elegans*.
- Poster presented at *XII Congresso Nazionale SIGU 2009*, Torino, November 8-10, 2009: N-myristoylation of SHOC2 affects human development and growth.
- Poster presented at *XIII National Congress of the Italian Society for Neuroscience*, Milan, Italy, October 2-5, 2009: *C. elegans* models for neuronal and axonal degeneration.
- Poster presented at *Neuronal Development, Synaptic Function & Behavior: C. elegans Topic Meeting* Madison, USA, June 27-30 2010: Cell specific knock-down of gene function in targeted *C. elegans* neurons.
- Posters presented at *Conferenza del Dipartimento Scienze della Vita*, CNR, Rome, Italy, October 11-12, 2010: - *C.elegans* models of neurodegeneration for medium throughput assays that can identify molecules with either neurotoxic or neuroprotective activity. -A *C. elegans* model of spinal muscular atrophy neurodegeneration.
- Poster presented at the *V Meeting on the Molecular Mechanisms of Neurodegeneration*, Universita' degli Studi di Milano, Milan, Italy, May 13-15, 2011: A *C. elegans* model of spinal muscular atrophy neurodegeneration.
- Poster presented at *18th International Worm Meeting*, UCLA, Los Angeles, USA, June 22-26, 2011: Neuron specific knock-down of *smn-1* causes neuronal degeneration and death.
- Poster presented at the *Meeting on Molecular Mechanisms in Neuroscience*, Accademia del Lincei, Rome, Italy, October 3-4, 2011: *The role of smn-1 in the neuronal survival in a C.elegans model of Spinal Muscular Atrophy*.
- Poster presented at the *FEBS Workshop on Cell Biology and Pharmacology of Mendelian Disorders*, Vico Equense (NA), Italy, October 7-11, 2011: Neuronal degeneration and death in a *C. elegans* model of Spinal Muscular Atrophy based on cell specific knock-down of *smn-1*.
- Posters presented at the *Meeting EMBO C.elegans Neurobiology*, Heidelberg, Germany, June 14-17, 2012: -Cell-specific knock-down of *smn-1* induces neuronal degeneration in *C. elegans* motoneurons. - A cell-autonomous genetic approach to investigate neurodegeneration. -Adaptation of a model of spinal muscular atrophy (SMA) neurodegeneration to pharmacological screening.
- Posters presented at *19th International Worm Meeting*, UCLA, Los Angeles, USA,

June 26-30, 2013: -Investigation of SMN1 structure-function relationship in neuronal degeneration. -Neurodegeneration and death induced by neuron-specific knockdown of *smn-1*, the homolog of the gene responsible for Spinal Muscular Atrophy.

- Posters presented at *XV Congress of The Italian Society of Neuroscience (SINS)*, Rome, Italy, October 3-5, 2013: - A new genetic tool to investigate axonal and neuronal degeneration in *Caenorhabditis elegans*. -Pharmacological screening on a new *C. elegans* model of spinal muscular atrophy. -The role of *smn-1* in the neuronal survival in a *C.elegans* model of spinal muscular atrophy.

- Posters presented at *European C. elegans Meeting*, Berlin, Germany, May 15-17, 2014: -Identification of neuroprotective molecules using a *C. elegans* model of Spinal Muscular Atrophy. -Identification of new genes involved in Dopaminergic neurons function by cell specific knock-down.

- Poster presented at *CeNeuro 2014*, Madison, USA, July 7-10, 2014: Identification of new genes involved in Dopaminergic neurons function by cell specific knock-down.

- Poster presented at *XIII FISV Congress 2014*, Pisa, Italy, September 24-27, 2014: Silencing of FLAD1 gene affects neuromuscular transmission in *Caenorhabditis elegans*.

- Poster presented at *IBBR retreat*, Naples, Italy, October 6-7, 2014: Cellular and molecular analysis of nervous system development and degeneration in the animal model *Caenorhabditis elegans*.

- Posters presented at the *Conference on “Nutraceutici e Alimenti funzionali: ricerca, produzione, sicurezza e consumo consapevole”*, CNR Area di Ricerca di Bologna, Bologna, Italy, October 21, 2016: -Identificazione e caratterizzazione strutturale e funzionale di molecole bioattive, proteiche e non-proteiche, nel frutto di kiwi e nell’olio di oliva; - Leguminose foraggere: potenziale fonte di proantocianidine per l’alimentazione umana?

- Poster presented at *XIX Convention Telethon*, Riva del Garda (TN), Italy, March 13-15, 2017: Identification of new druggable targets and potential therapeutic compounds for Spinal Muscular Atrophy, using a *C.elegans* model of neurodegeneration.

- Poster presented at *21st International Worm Meeting*, UCLA, Los Angeles, USA, June 21-25, 2017: Cellular and molecular mechanisms of *smn-1*-mediated neuron-specific degeneration.

- Posters presented at *EMBO Workshop on C. elegans development, cell biology and gene expression*, Barcelona, Spain, June 13-17, 2018: -Identification of genetic suppressors of *smn-1* in neurodegeneration. -Characterization of low-density lipoprotein receptor-related 8 involvement in Alzheimer’s disease.

- Poster presented at *CeNeuro 2018*, Madison, USA, June 25-28, 2018: Identification of genetic suppressors of *smn-1* in neurodegeneration.

- Poster presented at *22nd International Worm Meeting*, UCLA, Los Angeles, USA, June 20-24, 2019: Key role of SMN/hnRNPQ in neurodegeneration.

- Poster presented at *XX Convention Telethon*, Riva del Garda (TN), Italy, October 28-30, 2019: Identification of new druggable targets and potential therapeutic compounds for Spinal Muscular Atrophy, using a *C.elegans* model of neurodegeneration.

- Poster presented at *1st EVIta Meeting*, Palermo, Italy, November 6-8, 2019: Use of the invertebrate animal model *C. elegans* to study the bioactivity of EVs from natural extracts.

- Posters presented at *9th Meeting of the Neapolitan Brain Group*, TIGEM, Pozzuoli, Naples, Italy, December 12, 2020: -*lin-45/B-RAF* neuroprotective role in a *C.elegans* model of Spinal Muscular Atrophy. -Quantitative proteomic analysis of mouse brain in models of neurodevelopmental disorders caused by mutations in Aristaless-related homeobox gene. -The

games of genes: the role of SMN and hnRNP Q in neurodegeneration. -Sex-specific neurodegeneration in *C. elegans*.

- Posters presented at *23rd International Worm Meeting*, online, June 21-24, 2021: Key role of SMN/hnRNP Q in splicing and neurodegeneration. -Characterization of H828Q mutants in *C. elegans* model to find new targets and pathways to attenuate Cu toxicity in Wilson disease.

ORAL PRESENTATIONS AT MEETINGS AND WORKSHOPS

- Selected for oral presentation at *European Worm Meeting*, Blankeberge, Belgium, May 20-23, 2000: Invertebrate homologs of the human gene for X-linked Kallmann Syndrome.
- Selected for oral presentation at *13th International Worm Meeting*, UCLA, Los Angeles, USA, June 22-26, 2001: *kal-1*, the *C. elegans* homolog of the X-linked Kallmann syndrome gene, is involved in epidermal morphogenesis and neuronal growth.
- Invited oral presentation at *FIRB "Neuroscienze"* workshop PRONEURO RBNE01WY7P_001, Rome, Italy, October 4, 2003: Mechanisms of regulation in nervous system development and differentiation.
- Selected for oral presentation at *ABCD Group "Regulation of development" Meeting*, Castiglioncello (LI), Italy, May 13-15, 2005: UMODL1/Olfactorin is an extracellular membrane-bound molecule with a restricted spatial expression in olfactory and vomeronasal neurons
- Selected for oral presentation at *VIII FISV Annual Meeting*, Riva del Garda (TN), Italy, September 28-October 1, 2006: Analyses of the interactors of *kal-1*, the *C. elegans* homolog of the gene responsible for X-linked Kallmann Syndrome
- Selected for oral presentation at *European Worm Meeting*, Seville, Spain, March 29-April 2, 2008: *kal-1* role in neuronal spine formation.
- Selected for oral presentation at *1st Joint Retreat IGB- IBP-TIGEM*, □Roccaraso (AQ) Italy, June 10-12, 2009: *kal-1* role in neurite formation.
- Selected for oral presentation at *Meeting EMBO C.elegans Neurobiology*, Heidelberg, Germany, June 14-17, 2012: Neuron Specific Knock-down: Have you tried it yet?
- Invited Lecture at *Meeting "Dal laboratorio alla clinica. Disordini puberali: Il ruolo dei geni e dell'ambiente"* organized by IRCCS Istituto Auxologico Italiano, Milan, Italy, October 19, 2012: I modelli di genesi e migrazione del neurone GnRH: *C.elegans*
- Selected for oral presentation at *IBBR Retreat*, Naples, Italy, April 9, 2014: Sviluppo e mantenimento neuronale: risposta agli stress del sistema nervoso di *C.elegans*.
- Selected for oral presentation at *European C. elegans Meeting*, Berlin, Germany, May 15-17, 2014: Cellular and molecular mechanisms of *smn-1*-mediated neuron-specific degeneration.
- Selected for oral presentation at *CeNeuro 2014*, Madison, USA, July 7-10, 2014: Cellular and molecular mechanisms of *smn-1*- mediated neuron- specific degeneration.
- Invited Lecture at *2° Meeting "Dalla ricerca di base alla clinica"*, organized by Network Ipogonadismo Centrale (gruppo NICe), Naples, Italy, October 4, 2014: Identificazione di nuovi geni candidati IHH nel sistema modello *C. elegans*.
- Invited oral presentation at *TIGEM - External Advisory Board Meeting*, Pozzuoli (NA), Italy June 3, 2015: A *C.elegans* Facility at TIGEM.
- Invited oral presentation at *1st Meeting of the Neapolitan Brain Group*, Dipartimento di Biotecnologie della Università Federico II, Naples, Italy, June 4, 2015: *C.elegans* as animal model to study neurodegenerative diseases and for drug discovery.

- Invited oral presentation at *5th Meeting of the Mediterranean Neuroscience Society*, Santa Margherita di Pula (CA), Italy, June 12-15, 2015: Genetic characterization of the dopamine system in the animal model *C. elegans*.
- Invited oral presentation at *XVI SINS Congress*, Cagliari, Italy, October 8-11, 2015: Identification and characterization of new regulators of the dopamine system in the animal model *C. elegans*.
- Selected oral presentation at *5th Meeting of the Neapolitan Brain Group*, CEINGE, Naples, Italy, December 15, 2016: Identification of neuroprotective molecules using a *C. elegans* model of Spinal Muscular Atrophy.
- Invited oral presentation at the *2nd International Course in Advanced Fluorescence Applications in Biotechnology & Biology*, Institute of Food Science, CNR, Avellino, May 3-4, 2017: Fluorescent proteins: lighting up life with the animal model *C. elegans*.
- Invited oral presentation at *6th Meeting of the Mediterranean Neuroscience Society*, St. Julian's, Malta, June 12-15, 2017: Identification of neuroprotective molecules using a *C. elegans* model of Spinal Muscular Atrophy.
- Invited oral presentation at the *COST Action BMI408 GENiE meeting*, Liblice, Czech Republic, 21-23 September, 2017: Development, function and maintenance □ of the nervous system.
- □Invited oral presentation at the *COST Action BMI408 GENiE meeting*, Barcellona, Spain, June 13, 2018: *smn-1* mutants as a model to study neuronal degeneration and Spinal Muscle Atrophy.
- Invited oral presentation at the *Congress on La Ricerca sulle Malattie Rare in Campania*, Regione Campania, Naples, Italy, November 23-24, 2018: Modelli non-vertebrati di malattie rare.
- Invited oral presentation at *Ves4us Kick-off Meeting*, CNR, Area della Ricerca di Palermo, Palermo, Italy, September 19-21, 2018: Definition of the bioactivity of microalgae-derived EVs.
- Invited oral presentation at the *Meeting on "SMA: progressi e nuove sfide"*, IRCCS "C. Besta" Milan, Italy, October 11, 2018: Identificazione di soppressori genetici della neurodegenerazione in modelli invertebrati.
- Invited oral presentation at the *COST Action BMI408 GENiE meeting*, Kandersteg, Switzerland, March 20-22, 2019: Identification of genetic suppressors □ of *smn-1* induced neurodegeneration.
- Invited oral presentation at *Ves4us 1st Annual Meeting*, Max Planck Institute for Polymer Research (MPIP) Mainz, Germany, July 22-24, 2019: Definition of the bioactivity of microalgae-derived EVs: Invertebrate *in vivo* assay.
- Invited oral presentation at the *XX Convention Telethon 2019*, Riva del Garda (TN), Italy, October 30, 2019: How can *C.elegans* worm your way into the study of genetic diseases.
- Selected oral presentation at *2nd International Scientific & Clinical Congress on Spinal Muscular Atrophy*, EVERY GENOCENTRE, France, February 5-7, 2020: "Identification of neuroprotective genes and drugs using a new *C. elegans* SMA model".
- Invited oral presentation at the online *Meeting on Animal Models*, organized by AriSLA, Italy, September 15, 2020: "How can *C.elegans* worm your way into the study of ALS".
- Invited oral presentation at the online *Meeting MOTOR NEURON DISEASES: UNDERSTANDING THE PATHOGENETIC MECHANISMS TO DEVELOP THERAPIES*

organized by University of Turin, Italy, November 6-7, 2020: “Use of *C. elegans* as experimental model to study SMA disease mechanisms”.

- Selected oral online presentation at *3rd MyDEV Meeting*, organized by University of Milan, Italy November 20, 2020: “SMN role in neuron development for the pathogenesis of SMA.”
- Invited oral presentation at the online *WORKSHOP: avanzamenti nel campo della Nutrizione, Alimentazione & Invecchiamento Attivo*, organized by CNR-DISBA, Italy, April 28-29, 2021: “Analisi in vivo dell’effetto di composti naturali sulla prevenzione di patologie neurodegenerative mediante il modello *C.elegans*.”
- Invited oral presentation at *Mendel Days@UNINA Meeting*, organized by CEINGE, Naples, Italy, May 12, 2022: “Da Mendel alla Post-Genomica in *C. elegans*.”
- Invited oral presentation at the *School of Genetics*, organized by AGI, Cortona (AR), Italy, May 31, 2022: “Approcci classici e nuove tecnologie per l’analisi genetica nel sistema modello *C. elegans*.”

INVITED LECTURES AND SEMINARS

- Invited seminar at TIGEM, Naples, Italy, May, 2001: *kal-1*, the *C. elegans* homologue of the X-linked Kallmann syndrome gene.
- Invited Lecture at the IRCC, Candiolo, Turin, Italy, November 29, 2005: The nematode *Caenorhabditis elegans*.
- Invited seminar at University of Turin, Italy, December, 2005: Analyses of candidate interactors of *kal-1*, in mouse and *C.elegans*.
- Invited seminar at IRCCS "C. Besta", Milan, Italy, March 2, 2010: Neuronal degeneration in SMA: the animal model *Caenorhabditis elegans*.
- Invited Lecture at University of Molise, Campobasso, Italy, May 25, 2010: *Caenorhabditis elegans* as a model to study disease genes function.
- Invited Lecture at University of Milan, Italy, December 3, 2010: *Caenorhabditis elegans* come modello per lo studio della funzione di geni malattia: l'esempio della Sindrome di Kallmann.
- Invited seminar at University of Naples “Federico II”, Naples, Italy, February 2, 2011: *Caenorhabditis elegans* as a model for neurodegeneration and Spinal Muscular Atrophy.
- Invited seminar at Istituto di Ricerche Farmacologiche Mario Negri, Department of molecular biochemistry and pharmacology, Milan, Italy, October 18, 2012: A new *C. elegans* model of Spinal Muscular Atrophy to identify motoneuron specific functions of *smn-1* and new therapeutic approaches.
- Invited Lecture at TIGEM, Naples, Italy, June 10, 2014: The invertebrate animal model *Caenorhabditis elegans*.
- Invited seminar at Università degli Studi di Bari, Bari, Italy, June 13, 2014: Cellular and molecular mechanisms of *smn-1*-mediated neurodegeneration in a *C.elegans* model of Spinal Muscular Atrophy.
- Invited seminar at Università di Firenze, Florence, Italy, June 19, 2014: Models of neurodegeneration in *Caenorhabditis elegans*.
- Invited seminar at VIB Center for the Biology of Disease, Leuven, Belgium, November 21, 2014: Cellular and molecular mechanisms of neurodegeneration in a *C.elegans* model of Spinal Muscular Atrophy
- Invited seminar at University of Milan, Milan, Italy, February 22, 2017: Identification of neuroprotective molecules using a *C. elegans* model of Spinal Muscular Atrophy.

- Invited seminar at University of Pavia, Pavia, Italy, May 30, 2017: Identification of neuroprotective molecules using a *C. elegans* model of Spinal Muscular Atrophy.
- Invited seminar at ISA, CNR, Avellino, Italy, December 6, 2017: Identification of neuroprotective molecules using a *C. elegans* model of Spinal Muscular Atrophy.
- Invited seminar at Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy, October 10, 2018: Identification of neuroprotective molecules using a *C. elegans* model of Spinal Muscular Atrophy.
- Invited seminar at Institute of Neuroscience, CNR, Milan, Italy, October 12, 2018: Identification of neuroprotective molecules using a *C. elegans* model of Spinal Muscular Atrophy.
- Invited seminar at Neuroscience Institute Cavalieri Ottolenghi, Orbassano (TO), Italy, November 20, 2018: Identification of neuroprotective molecules using a *C. elegans* model of Spinal Muscular Atrophy.
- Invited seminar at ITMO University, St. Petersburg, Russia, April 30, 2019: Identification of neuroprotective molecules using a *C. elegans* model of Spinal Muscular Atrophy.
- Invited seminar at Telethon Foundation, Milan, Italy, May 24, 2019: Identification of new druggable targets and potential therapeutic compounds for Spinal Muscular Atrophy, using a *C. elegans* model of neurodegeneration (GGP16203).
- Invited seminar at Columbia University, Motor Neuron Center, New York, USA, June 25, 2019: Identification of genetic suppressors of Spinal Muscular Atrophy neurodegeneration in *C. elegans*.
- Invited seminar at Columbia University, Department of Biological Sciences, New York, USA, June 26, 2019: Identification of genetic suppressors of Spinal Muscular Atrophy neurodegeneration in *C. elegans*.
- Invited seminar at IBBC, CNR, Naples, Italy, September 13, 2019: Identification of new druggable targets and potential therapeutic compounds for Spinal Muscular Atrophy, using a *C. elegans* model of neurodegeneration.
- Invited lecture at IRCCS «C. Besta», Milan, Italy, December 6, 2019: How can *C. elegans* worm your way into the study of neurodegenerative diseases: lessons from SMA and Parkinson.
- Invited webinar at “Seminar series on extracellular vesicles, from membrane biophysics to drug delivery”, April 8, 2020: A *C. elegans(t)* way to study EVs.
- Invited lecture at University of Naples Federico II, Department of Biological Sciences, Naples, Italy, May 25, 2022: Identification of neuroprotective genes and drugs using a *C. elegans* SMA model.

TEACHING EXPERIENCES IN UNIVERSITIES

2001: Guest co-lecturer at the 1st Level Degree in Biological Science, University of Naples “Federico II”.

2005: Guest lecturer at the 1st Level Degree in Biological Science, University of Naples “Federico II”.

2006: Guest lecturer at the 1st year of PhD Course in Molecular Medicine, CEINGE, Naples.

2006: Guest lecturer at the 2nd year of PhD Course in Molecular Medicine, TIGEM, Naples.

2007: Guest lecturer at the 1st year of PhD Course in Molecular Medicine, TIGEM, Naples.

2007: Guest lecturer at the PhD Summer Course in Biotechnology, University of Naples “Federico II”.

- 2007:** Guest lecturer at the Postgraduate School in Medical Genetics, University of Naples “Federico II”.
- 2008:** Guest lecturer at the 2nd year of PhD Course in Advanced Biology, University of Naples “Federico II”.
- 2008:** Guest lecturer at the 1st year of PhD Course in Molecular Medicine, TIGEM, Naples.
- 2008:** Guest lecturer at the 1st Level Degree in Biological Science, University of Naples “Federico II”.
- 2009:** Guest lecturer at the 1st year of PhD Course in Molecular Medicine, TIGEM, Naples.
- 2009:** Guest lecturer at the 2nd Level Degree in Biological Science, University of Naples “Federico II”.
- 2010:** Guest lecturer at the 1st year of PhD Course in Molecular and Cellular Biotechnology, Second University of Naples.
- 2010:** Guest lecturer at the 1st year of PhD Course in Molecular Medicine, TIGEM, Naples.
- 2010:** Guest lecturer at the 2nd year of PhD Course in Advanced Biology, University of Naples “Federico II”.
- 2010:** Guest lecturer at the 2nd Level Degree in Biological Science, University of Naples “Federico II”.
- 2010:** Guest lecturer at the 2nd Level Degree in Biotechnology of Drugs, University of Milan.
- 2011:** Guest lecturer at the 1st year of PhD Course in Molecular Medicine, TIGEM, Naples.
- 2011:** Guest lecturer at the 2nd Level Degree in Biotechnology for Health, University of Naples “Federico II”.
- 2011:** Guest lecturer at the 1st year of PhD Course in Molecular and Cellular Biotechnology, Second University of Naples.
- 2011:** Guest lecturer at the 2nd year of PhD Course in Advanced Biology, University of Naples “Federico II”.
- 2011:** Guest lecturer at the 2nd Level Degree in Biotechnology of Drugs, University of Milan.
- 2011:** Guest lecturer at the 2nd Level Degree in Biological Science, University of Naples “Federico II”.
- 2012:** Guest lecturer at the 2nd Level Degree in Biological Science, University of Naples “Federico II”.
- 2012:** Guest lecturer at the 2nd Level Degree in Biotechnology of Drugs, University of Milan.
- 2012:** Guest lecturer at the 2nd Level Degree in Biotechnology for Health, University of Naples “Federico II”.
- 2012:** Guest lecturer at the 1st year of PhD Course in Molecular Medicine, TIGEM, Naples.
- 2012:** Guest lecturer at the 2nd year of PhD Course in Molecular Medicine, TIGEM, Naples.
- 2013:** Guest lecturer at the 1st Level Degree in Biological Science, University of Naples “Federico II”.
- 2013:** Guest lecturer at the 1st year of PhD Course in Molecular Medicine, TIGEM, Naples.
- 2013:** Guest lecturer at the 2nd year of PhD Course in Molecular Medicine, TIGEM, Naples.
- 2013:** Guest lecturer at the 1st year of PhD Course in Molecular and Cellular Biotechnology, Second University of Naples.
- 2014:** Guest lecturer at the 2nd Level Degree in Biotechnology of Drugs, University of Milan.
- 2015:** Guest lecturer at the 1st year of PhD Course in Molecular and Cellular Biotechnology, Second University of Naples.
- 2016:** Guest lecturer at the PhD Course in Genetics and Molecular Biology, University of Rome “La Sapienza”, Rome.
- 2017:** Guest lecturer at the 2nd Level Degree in Biotechnology of Drugs, University of Milan, Milan.

2017: Guest lecturer at the PhD Course in Clinical and Experimental Medicine, University of Milan, Milan.

2017: Guest lecturer at the PhD Programme in Experimental Medicine and Medical Biotechnologies, University of Milan, Segrate (MI).

2018: Guest lecturer at the 2nd Level Degree in Biology, University of Naples “Federico II”.

2018: Guest lecturer at the 1st year of PhD Course in Biomolecular Science, Second University of Naples.

2019: Guest lecturer at the 2nd Level Degree in Biotechnology of Drugs, University of Milan, Milan.

2020: Guest lecturer at the 1st year of PhD Course in Biomolecular Science, University of Campania L. Vanvitelli.

2020: Guest lecturer at the 2nd Level Degree in Biotechnology of Drugs, University of Milan, Milan.

2020: Guest lecturer at the 1st Level Degree in Biological Science, University of Naples “Federico II”.

2020: Guest lecturer at the 1st Level Degree in Biological Science, University of Campania L. Vanvitelli.

2021: Guest lecturer at the 2nd Level Degree in Advanced Biotechnology, University of Teramo.

2021: Guest lecturer at the 1st year of PhD Course in Biomolecular Science, University of Campania L. Vanvitelli.

2021: Guest lecturer at the Master in Clinical Science on Rare Diseases, University of Campania L. Vanvitelli.

2021: Guest lecturer at the 2nd Level Degree in Biological Science, University of Naples “Federico II”.

2022: Guest lecturer at the 1st year of PhD Course in Molecular Life Sciences, University of Campania L. Vanvitelli.

THIRD MISSION, OUTREACH AND DISSEMINATION

2004: Guest lecturer at the 5th year of High School, Liceo Scientifico Sbordone, Naples.

2008: Lecture at the *Brain Awareness Week 2008*, SZN, Naples, March 13-14, 2008: Come un piccolo verme aiuta a capire il cervello.

2008: Interview to national newspaper *Il Mattino*, page 44: Il verme che ci fa capire il cervello.

2009: Practical course at the University of Naples “Federico II” to students of the Course in Developmental Biology on: Studying the development of the nematode *C.elegans*.

2010: Practical course at the University of Naples “Federico II” to students of the Course in Developmental Biology on: Studying the development of the nematode *C.elegans*.

2011: Practical course at the University of Naples “Federico II” to students of the Course in Developmental Biology on: Studying the development of the nematode *C.elegans*.

2011: Hosted in the laboratory students from University of Salerno, Course in Genetics, on: RNAi in *C.elegans*.

2012: Hosted in the laboratory students of the 4th year of Calamandrei High School.

2012: Invited Lecture at the *Exhibition “Il Filo della Vita”*, Città della Scienza, Naples, February 26: Come un piccolo verme aiuta a capire la funzione dei geni.

2012: Hosted in the laboratory students from University of Salerno, Course in Genetics, on: RNAi in *C.elegans*.

2012: Hosted in the laboratory students from University of Naples “Federico II”, Course in Developmental Biology.

2012: Practical course at the University of Naples “Federico II” to students of the Course in Developmental Biology.

2012: Hosted in the laboratory students from University of Naples “Federico II”, Course in Animal modelling of human diseases.

2013: Hosted in the laboratory students from University of Naples “Federico II”, Course in Animal modelling of human diseases.

2014: Practical course at the University of Naples “Federico II” to students of the Course in Developmental Biology.

2014: Hosted in the laboratory students from University of Naples “Federico II”, Course in Animal modelling of human diseases.

2015: Practical course at the University of Naples “Federico II” to students of the Course in Developmental Biology.

2015: Hosted in the laboratory students from Liceo Scientifico Lucrezio Caro, Naples for the event “School goes to CNR”.

2016: Press release: Un piccolo organismo per prevenire la morte dei neuroni

(<https://www.cnr.it/it/comunicato-stampa/6969/un-piccolo-organismo-per-prevenire-la-morte-dei-neuroni>).

2016: Commentary by Telmo Pievani on Gallotta *et al.*, 2016 paper, on national newspaper *Corriere della Sera* Sunday supplement *La lettura*, page 9, August 7: Evoluzione benefica: la fortuna di avere un verme per cugino.

2016: Invited Lecture at *European Biotech Week event “RicherchiAMO, la scienza in azione”*, Area della Ricerca 1 del CNR, Naples, September 26, 2016: Un piccolo organismo modello per le biotecnologie: *C.elegans*.

2018: Hosted in the laboratory tourists of Touring Club Italiano.

2019: Interview to online national magazine *Almanacco della Scienza*: Gusto, quando la scelta ce la indica un vermetto

(http://www.almanacco.cnr.it/reader/cw_usr_view_articolo.html?id_articolo=7961&id_rub=32&giornale=7939).

2019: Invited Lecture at *UniStem Day*, University of Naples “Federico II”, March 15, 2019: *C. elegans* come modello di studio per le malattie neurodegenerative (<http://www.dol.unina.it:8445/Mediatteca/Evento/player.jsp?idevento=169987>)

2019: Interview to online version of the national newspaper *Il Mattino*: «Vi raccontiamo le staminali»

(https://www.ilmattino.it/napoli/cronaca/alla_federico_ii_unistem_day_vi_raccontiamo_le_staminali-4364107.html)

2021: Interview to *Communications Biology*, Volume 4, Issue 1, Article Number 1126: «Reviewing as a career milestone: a discussion on the importance of including trainees in the peer review process»

([DOI10.1038/s42003-021-02645-6](https://doi.org/10.1038/s42003-021-02645-6))

2021: Invited Lecture online at the *Festival della Scienza 2021*, October 25, 2021: La completa mappatura del sistema nervoso del piccolo nematode *C. elegans* è uno strumento prezioso per la salute umana

TUTORING ACTIVITY

Master Thesis

- Maria Lettieri 2001-2003; current position: science teacher in school.
- Silvana Castro 2006-2008.
- Giuliana Gelsomino 2004-2006; current position: Clinical Pharmacist in Salerno, Italy.

- Monica Vitale 2007-2009; current position: Post Doc at the Department of Medicine, University of Salerno, Salerno, Italy.
- Ivan Gallotta 2008-2009; current position: see below.
- Mariantonietta D'Orta 2009-2011; current position: science teacher in school, Civitanova Marche, Italy.
- Emanuela Pone 2010-2014; current position: Post Doc in Auricchio Lab, TIGEM, Pozzuoli (NA), Italy.
- Alessandra Donato 2011-2013; current position: Post Doc in Hilliard Lab, University of Queensland, QBI, Australia.
- Marina Di Domenico 2012; current position: Ph.D. student in Rheinische Friedrich-Wilhelms-University, Bonn, Germany.
- Alessandro Esposito 2013-2014; current position: PostDoc Position in Landsberger Lab at San Raffaele Scientific Institute, Milan, Italy.
- Maria Paglione 2015-2017; current position: see below.
- Serena Visone 2015-2016; current position: Quality assurance and regulatory affairs at Stewart Italia srl, Naples, Italy.
- Lucia Verrillo 2016; current position: see below.
- Francesca Sola 2017- 2019; current position: fellow at the University La Sapienza di Roma, Italy.
- Federica Cieri 2018-2019; current position: see below.
- Giuseppe Guardascione 2018-2020; current position: fellow at the National Cancer Institute - IRCCS "Fondazione G.Pascale", Naples, Italy.
- Federica La Rocca 2018-2020; current position: see below.
- Giuliana Madonna 2020-2021; current position: fellow at the IRCCS C. Besta, Milan Italy
- Rosa Mocerino 2023-present.

Postgraduate fellows

- Silvana Castro 2008-2012.
- Ambra Lanzo 2011-2012; current position: see below.
- Giuseppina Zampi 2012-present.
- Nadia Mazzarella 2011-2012; current position: see below.
- Giorgio Virnicchi 2013.
- Federico Catalano 2015-2016 and 2020-2021; current position: see below.
- Maria Paglione 2017-2018; current position: Ph.D. student in Neukomm Lab, University of Lausanne, Lausanne, Switzerland.
- Antonella Camera 2015-2016; current position: nutritionist, Salerno, Italy.
- Giada Onorato 2018-2019; current position: see below.
- Federica Cieri 2019-2020; current position: see below.
- Mariagiovanna Inserra 2022-present.

PhD Students

- Claudia Vicario 2003-2007; current position: Application Specialist at bioMerieux, Italy.
- Ivan Gallotta 2009-2012; current position: see below.
- Ambra Lanzo 2012- 2015; current position: Recruiter & HR office at Netcom Group S.p.A, Naples, Italy.
- Nadia Mazzarella 2012-2015; current position: Technology Transfer Specialist at BSP Pharmaceuticals S.p.A., Latina, Italy.

- Giada Onorato 2019-present.
- Federica Cieri 2020-present.
- Federica La Rocca 2020-present.

Post Docs

- Ivan Gallotta 2013-2015; current position: PostDoc in David Lab, Cambridge, UK.
- Carla Bertapelle 2017-2019; current position: science teacher in school, Italy.
- Pamela Santonicola 2017-present.

Collaborative visits

- Alessia Mazzola 2008; current position: Senior Clinical Research Associate at IQVIA, Italy.
- Simone Martinelli 2008; current position: Researcher at ISS, Rome, Italy.
- Francesco Ballestriero 2011; current position: Biology Division Manager at GSK, Verona, Italy.
- Luca Pannone 2012; current position: Post Doc in Martinelli Lab, ISS, Rome, Italy.
- Cristina Soria 2013; current position: Laboratory analyst at TOSTI SpA, Asti, Italy.
- Emilia Di Palo 2013.
- Raffaele Ronca 2013-2014.
- Jana Gruttner summer internship 2014; current position: Ph.D. student in Uppsala University, Uppsala, Sweden.
- Francesca Di Cristo 2015; current position: Researcher at Elleva Pharma srl, Naples, Italy.
- Angela Napoletano 2015; current position: QC microbiologist at Alfa Intes Industria Terapeutica Splendore, Naples, Italy.
- Pasquale Scarcia 2015; current position: Researcher in Palmieri Lab, University of Bari, Bari, Italy.
- Jannis Achenbach summer internship 2015; current position: Medical Specialist in the Department of Neurology, St. Josef Hospital, Ruhr-University, Bochum, Germany.
- Margherita Scarpato 2015-2016; current position: nutritionist, Salerno, Italy
- Federico Catalano 2018-2019; current position: postgraduate fellow in Polishchuk Lab, TIGEM, Pozzuoli (NA), Italy.
- Augusto Ranieri 2016; current position: science teacher in school, Milan, Italy.
- Federica Cocco 2016.
- Benedetta Attianese 2016-2017; current position: Ph.D. student in Salcini Lab, BRIC, Copenhagen, Denmark.
- Lucia Verrillo 2016; current position: Ph.D. student in Miano Lab, IGB, CNR, Naples, Italy.
- Ludovico Rizzuti 2017; current position: Ph.D. student in Testa Lab, IEO, Milan, Italy.
- Marie-Lyne Macel 2017; current position: Ph.D. student in SZN, Naples, Italy.
- Alessandro Arosio 2018; current position: Upstream Vector Development Technician at MolMed, Monza, Italy.
- Nayna Arsalan 2018.
- Letizia Pruccoli 2018; current position: Post Doc in Tarozzi Lab, University of Bologna, Rimini, Italy.
- Federica Esposito 2018; current position: postgraduate fellow at TIGEM, Pozzuoli (NA), Italy.
- Giada Casolla 2022.

- Ornella Saggese 2022; current position: Researcher at University of Naples Federico II, Naples, Italy.
- Marco Santorelli 2022.
- Martina Balducci 2022; current position: PhD student in Tarozzi Lab, University of Bologna, Rimini, Italy.
- Giulia Semenzato 2022; current position: PhD student in Fani Lab, University of Firenze, Italy.
- Ilaria Stefanile 2022; internship from University of Napoli, Italy.
- Mariastella Colomba 2023; current position: Researcher at University of Urbino, Italy.
- Lisa Kohrs 2023;
- Katharina Mörk 2023;
- Giulia Madonna 2023; current position: Fellow in Taroni Lab, IRCSS Besta, Milan, Italy.

ACTIVITY AS REVIEWER

- Reviewer for peer-reviewed international journals as stated by Web of Science: *Frontiers in Microbiology, Communications Biology, PloS ONE, PloS GENETICS, Disease Models & Mechanisms, Molecular Biology Reports, Journal of Visualized Experiments, Oxidative Medicine and Cellular Longevity, European Journal of Neuroscience, Human Molecular Genetics, Molecular neurobiology.*
- Reviewer for national and international grant agencies:
 - *Programme “Actions de recherche concertée”, ARC Consolidator Projects, Université Libre de Bruxelles – 2014 – 2019;*
 - *Progetti Futuro in Ricerca 2013 (Preselezione), Italian Minister MIUR;*
 - *European Research Council (ERC) Starting Grant 2018.*
 - *Bando congiunto Università di Firenze - Fondazione Cassa di Risparmio di Firenze per il finanziamento di progetti competitivi sulle malattie neurodegenerative – Anno 2020*
- Reviewer for *PHD FINAL EXAMINATION 2020* –Università degli Studi di Padova
- Reviewer of the abstracts of the research activity for *PhD annual evaluation 2021/2022*, PhD Program in Translational Medicine 37th and 35th cycles, University of Milan, Italy.
- Reviewer of the annual report for *PhD annual evaluation 2021/2022*, PhD Program in Translational Medicine 37th cycle, University of Milan, Italy.

ORGANIZATION OF MEETINGS AND SYMPOSIA

- *European Worm Meeting*, Paestum, Italy, May 18-21, 2002.
- *1st Meeting of the Italian C.elegans Research Community*, IGB-ABT, CNR, Naples, Italy, April 20-22, 2007.
- *Brain Awareness Week 2008*, SZN, Naples, Italy, March 13-14, 2008.
- *Il Filo della Vita, dall’RNA alle Biotecnologie*, presented at:
 - Festival della Scienza 2011*, Genoa, Italy, October 21 - November 2, 2011;
 - “BioEconomy Conference”*, MAXXI in Rome, Italy, November 28/29, 2011;
 - Città della Scienza*, Naples, Italy, February 12 - end of July, 2012.
- *IGB 50th Anniversary Symposium*, IGB-ABT, CNR, Naples, Italy, March 1, 2012.
- *IGB 50th Anniversary Closing Meeting*, IGB-ABT, CNR, Naples, Italy, November 23, 2012.

- *IBBR-Naples Unit Retreat*, IBBR, CNR, Naples, Italy, April 2-3-9-10, 2014.
- *2nd Meeting “From basic research to clinics”*, organized by Network Ipogonadismo Centrale, Second University of Naples, Naples, Italy, October 4, 2014.
- *3rd Meeting of the Neapolitan Brain Group*, Department of Biotechnologies University of Naples “Federico II”, Naples, Italy, April 28, 2016.
- Special session at the *Conference of the Department of Biology, Biology, Agriculture and Food Science of the CNR*, Florence, Italy, October 24-25, 2016: “Sistemi modello per la ricerca di base nel DiSBA”.
- *5th Meeting of the Neapolitan Brain Group*, CEINGE, Naples, Italy, December 15, 2016.
- *Symposium at the XVII National Congress of the Italian Society of Neuroscience*, Lacco Ameno, Ischia, Italy, October 1-4, 2017: Identification of neuroprotective molecules for Spinal Muscular Atrophy .
- *6th Meeting of the Neapolitan Brain Group*, SZN, Naples, Italy, December 14, 2017.
- *Regional Congress on Rare Diseases of Campania Region*, Naples, Italy, IBBR representative in the Scientific Committee, November 23-24, 2018.
- *9th Meeting of the Neapolitan Brain Group*, TIGEM, Pozzuoli, Naples, Italy, December 12, 2019.
- *2nd Meeting of the Italian C.elegans Research Community*, IBBR, CNR, Naples, Italy, March 5-6, 2020.
- *2.0nd Meeting of the Italian C.elegans Research Community*, Naples, Italy, March 2-3, 2023.

ACTIVITY AS EDITOR

- Editor of a *Supplement in BMC Neuroscience* (ISSN 1471-2202), entitled *Abstracts of the 6th Meeting of the Neapolitan Brain Group*, 2018, 19 (suppl 3).
- Editor of Topics Board of *Biology* (ISSN 2079-7737), an international peer-reviewed open access journal published by MDPI.
- Review Editor in Neuropharmacology, specialty section of *Frontiers in Neuroscience* (ISSN 1662-453X), *Frontiers in Neurology* (ISSN 1664-2295), *Frontiers in Pharmacology* (ISSN 1663-9812) and *Frontiers in Psychiatry* (ISSN 1664-0640).
- Review Editor on the Editorial Board of Neurodegeneration, specialty section of *Frontiers in Neuroscience* (ISSN 1662-453X), *Frontiers in Neurology* (ISSN 1664-2295) and *Frontiers in Psychiatry* (ISSN 1664-0640).
- Review Editor and Guest Associate Editor in *Frontiers in Physiology* (1664-042X).

PUBLICATIONS OF MEETING ABSTRACTS

Rugarli E.I., **Di Schiavi E.**, Hilliard M.A., Arbucci S., Ghezzi C., Faccioli A., Ballabio A., Bazzicalupo P. The Kallmann syndrome gene homologue in *C. elegans* is involved in epidermal morphogenesis and neurite branching.

American Journal of Human Genetics, 2001, 69(4), Supplement 1: 345-345

Scarcia P., Zampi G., Porcelli V., Gorgoglione R., Pierri C.L., De Grassi A., Sadaa A., Elpeleg O., Chaouch A., Lochmuller H., **Di Schiavi E.**, Palmieri L. Mutations in SLC25A1, encoding the mitochondrial citrate carrier, cause neuromuscular junction transmission defect. *Biochimica et Biophysica Acta (BBA)–Bioenergetics*, 2016, 1857, Supplement: e71

Cataldi M., **Di Schiavi E.**, Lucini C., Del Giudice E. The Neapolitan Brain Group.

BMC Neuroscience, 2018, 19(suppl 3):11

Santonicola P., Gallotta I., Zampi G., **Di Schiavi E.** Characterization of *smn-1* genetic interactors in a *C.elegans* SMA model.
BMC Neuroscience, 2018, 19(suppl 3):O3

Esposito F., Colino-Sanguino Y., Gallotta I., Coakley S., Faideau M., Montefusco S., Polishchuck E., Carissimo A., Bjorklund A., Ballabio A., Hilliard M.A., Medina D., **Di Schiavi E.**, Decressac M. Modulation of aging pathways as a therapeutic strategy for Parkinson's disease
BMC Neuroscience, 2018, 19(suppl 3): O16

Bertapelle C., Medoro A., Cocco F., **Di Schiavi E.**, Russo C. A *C.elegans* model to study LDL-related proteins involvement in Alzheimer's disease.
BMC Neuroscience, 2018, 19(suppl 3): P3

Paglione M., Lanzo A., Zampi G., Kurian M., **Di Schiavi E.** Characterisation in *C. elegans* of mutations in DAT gene causative of dopamine transporter deficiency syndrome.
BMC Neuroscience, 2018, 19(suppl 3): P10

Santonicola P., Cieri F., Rizzo F., Nizzardo M., Corti S., **Di Schiavi E.** Neuroprotective role of *hrp-2*/SYNCRIP in a *C.elegans* model of Spinal Muscular Atrophy. *Translational Medicine @ UniSa*, 2019, ISSN 2239-9747, Special Issue 1(14): 14

Bertapelle C., Medoro A., Mignogna D., Russo C., **Di Schiavi E.** Unraveling the role of low-density lipoprotein receptor-related protein 8 in Alzheimer's Disease using a new *C. elegans* model. *Translational Medicine @ UniSa*, 2019, ISSN 2239-9747, Special Issue 1(23): 23

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