

# Curriculum

## SIMONA DEDONI

### Personal information

**Surname and name:** Dedoni Simona

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### Qualifications

*January 31, 2011*

Ph.D. in “Development and Experimentation of Antiviral Drugs”, University of Cagliari.

Thesis title: “Type I interferon-induced neuronal damage: a study of the cellular and molecular mechanisms mediating interferon neurotoxicity”.

Academic Years: 2007-2010, 33rd cycle

Grade: Excellent

*May 14, 2007*

Achievement of the title of researcher in "Industrial Biochemistry".

*July 5, 2004*

Degree in Chemistry and Pharmaceutical Technologies, University of Cagliari,

(the standard duration of the course is 5 academic years).

Thesis title: "In vitro study on the transdermal absorption of diclofenac complexed with  $\beta$ -cyclodextrins".

### Certificates

- ASN 2016/2018 - Certificate of Achievement of the National Scientific Qualification for the role of Associate Professor in the Competition Sector 05/G1 - PHARMACOLOGY, CLINICAL PHARMACOLOGY, AND PHARMACOGNOSY. The qualification is valid for eleven years starting from 11/06/2018 and will expire on 11/06/2029.
- Certificate "Initial Training Path in Didactic Field-AQ" 2022-2023.
- Certificate of training for acquiring specific competencies for the functions under art. 23, paragraph 2, letters a), c), d) of Legislative Decree 26/2014, for the species RAT and MOUSE.
- Certificate of training in "Industrial Biochemistry, two-year course 2005-2007".
- Certificate of English language proficiency at level B2, issued by the school "International English Center" on 02/24/2023.

- Certificate confirming the award of funding from the Foundation of Sardinia for the year 2010.
- Letter of recommendation from Prof. Italo Mocchetti for activities carried out at Georgetown University, Washington DC.
- Certificate attesting the role as Guest Editor for *Molecules* for the Special Issue: “Molecular Targets for Anti-inflammatory Therapy”. (Attachment 8).
- Certificate attesting the role as Guest Editor for *Nutrients* for the Special Issue: “Compulsive Eating, Anorexia Nervosa and Obesity: From Prevention to Treatment”. (Attachment 9).
- Certificate attesting the role as Guest Editor for *Molecules* for the Special Issue: “Anti-inflammatory Molecules”. (Attachment 10).
- Certificate attesting the role as Review Editor in *Frontiers in Molecular Neuroscience* – “Molecular Signaling and Pathways”. (Attachment 11).

### **Scientific and professional activity**

**March 1, 2024** – Present: Type B Researcher (full-time), under Article 24, paragraph 3, type b), of Law 240 of December 30, 2010, at the Department of Biomedical Sciences, Section of Neurosciences and Clinical Pharmacology, University of Cagliari.

**November 23, 2023 – February 29, 2024:** Individual assignment of non-habitual self-employed work regarding: "The determination of circulating levels of potential biomarkers of cognitive dysfunction and metabolic comorbidities in patients with a diagnosis of schizophrenia," at the Department of Biomedical Sciences, Section of Neurosciences and Clinical Pharmacology, University of Cagliari.

**October 1, 2020 – September 30, 2023:** Type A Researcher (full-time), funded by the Region of Sardinia, with the Public Call Notice for the funding of Research Projects – year 2017 - POR Sardinia FSE 2014-2020 – Axis III "Education and Training," at the Department of Biomedical Sciences, Section of Neurosciences and Clinical Pharmacology, University of Cagliari.

**December 14, 2018 – September 30, 2020:** Research grant for the implementation of the top-down Cluster project IBERNAT-NBL "New therapeutic strategies for childhood neuroblastoma," funded by Sardegna Ricerche-POR 2014-2020 for the "Study of the expression of drug-induced molecular targets in human neuroblastoma cells," at the Department of Biomedical Sciences, Section of Neurosciences and Clinical Pharmacology, University of Cagliari. (Scientific supervisor Prof. Pierluigi Onali)

**December 10, 2013 – December 9, 2018:** Research Fellowship (Article 22 L.240/2010, Type B), Area 5 – Biological Sciences – Competition Sector 05/G1 – Pharmacology, Clinical Pharmacology and Pharmacognosy – SSD: BIO/14. Department of Biomedical Sciences, University of Cagliari. Research activity within the project "Study of the molecular and cellular mechanisms mediating neuronal damage induced by type I interferons." (Scientific supervisor Prof. Pierluigi Onali)

**June 15, 2013 – June 30, 2014:** Visiting fellow researcher at: Laboratory of Preclinical Neurobiology, Department of Neuroscience, Georgetown University Medical Center, Washington, District of Columbia, USA. (Supervisor: Dr. Italo Mocchetti).

**November 28, 2012 – November 27, 2013:** Research Fellowship (Article 22 L.240/2010, Type B), Area 5 – Biological Sciences – Competition Sector 05/G1 – Pharmacology, Clinical Pharmacology and Pharmacognosy – SSD: BIO/14. Department of Biomedical Sciences, University of Cagliari. Research activity within the project "Study of the molecular and cellular mechanisms mediating neuronal damage induced by type I interferons." (Scientific supervisor Prof. Pierluigi Onali)

**A.Y. 2007-2010, XXXIII cycle:** PhD course in “Development and Experimentation of Antiviral Drugs”, University of Cagliari.

**March 29, 2010 – September 28, 2012:** Principal Investigator of the research project titled: "Study of the neurotoxicity of alpha and beta interferons: direct effects on neuronal cells." Project funded by the Autonomous Region of Sardinia within the competitive peer-reviewed call “Young Researchers”, L.R. 07/2007, Operational Program ESF Sardinia 2007-2013 for the Innovation of Scientific and Technological Research in Sardinia. Duration: 30 months. Project Code: CRP2\_22110.

**December 9, 2008 – May 31, 2009:** “Coordinated and continuous collaboration contract” for the project “Study using molecular biology techniques of the biological activity of cytokines and their muteins,” within the MIUR DM 28142 project with scientific supervisor Dr. Giancarlo Tonon, BIO-KER srl, as part of the project "Development of methodologies for the modeling of drugs and biopharmaceuticals," carried out at the Department of Neurosciences "B.B. Brodie", University of Cagliari.

**September 21, 2008 – November 30, 2008:** “Coordinated and continuous collaboration contract” for the project “Study of the biological activity of interferons and their derivatives by determining the activation of the JAK/STAT signaling pathway,” promoted by the Autonomous Region of Sardinia - Regional Network for Innovation, Measure 3.13 Por Sardinia 2000-2006, carried out at the Department of Neurosciences "B.B. Brodie", University of Cagliari. (Scientific supervisor Prof. Pierluigi Onali)

**April 10, 2008 – July 30, 2008:** “Coordinated and continuous collaboration contract” for the project “Research on biological models for the evaluation of the activity of therapeutic recombinant proteins: Study of the intracellular signaling mechanisms of interferon” carried out at the Department of Neurosciences "B.B. Brodie", University of Cagliari. (Scientific supervisor Prof. Pierluigi Onali)

**January 11, 2008 – January 31, 2008:** Assignment of professional consultancy at the Department of Neurosciences, University of Cagliari. Work performed: “In vitro biological activity assays of G-CSF derivatives” for the company BIO-KER srl -Multimedica Group, Sardinia Technology Park, Pula- CA, carried out at the Department of Neurosciences "B.B. Brodie", University of Cagliari. (Scientific supervisor Prof. Pierluigi Onali)

**May 15, 2005 – May 14, 2007:** Winner of the national selection for a training scholarship for researchers in “Industrial Biochemistry”, promoted by the company BIO-KER srl -Multimedica Group, Sardinia Technology Park, Pula- Cagliari. Work activities carried out at the Department of Neurosciences "B.B. Brodie", University of Cagliari. (Scientific supervisor Prof. Pierluigi Onali)

## **Institutional Roles**

- From A.A. 2024-2027. Member of the Departmental Committee for postdoctoral fellow positions, Department of Biomedical Sciences, University of Cagliari.

- From A.A. 2024-2025. Member of the Teaching Board of the PhD in Neuroscience, University of Cagliari.

## **Teaching activity**

Institutional Assignments:

**A.Y. 2024-2025:** Teaching of General and Clinical Pharmacology and Pharmacovigilance (SSD: BIO/14) (32 hours, 4 CFU) in the Integrated Course of "Pathology and Pharmacology", Nursing Course, University of Cagliari - Nuoro Campus.

**A.Y. 2022-2023:** Teaching of General and Clinical Pharmacology and Pharmacovigilance (SSD: BIO/14) (32 hours, 4 CFU) in the Integrated Course of "Pathology and Pharmacology", Nursing Course, University of Cagliari - Nuoro Campus.

**A.Y. 2021-2022:** Teaching of General and Clinical Pharmacology and Pharmacovigilance (SSD: BIO/14) (32 hours, 4 CFU) in the Integrated Course of "Pathology and Pharmacology", Nursing Course, University of Cagliari - Nuoro Campus.

**A.Y. 2020-2021:** Teaching of Pharmacology (SSD: BIO/14) (8 hours, 1 CFU) in the Integrated Course of "Elements of Clinical Medicine", Health Assistance Course, University of Cagliari.

**A.Y. 2020-2021:** Teaching of General and Clinical Pharmacology and Pharmacovigilance (SSD: BIO/14) (8 hours, 1 CFU) in the Integrated Course of "Pathology and Pharmacology", Nursing Course, University of Cagliari.

**A.Y. 2018/2020:** Subject Expert for SSD Pharmacology (BIO/14) in the Pharmacology teaching course (odd year) of the Faculty of Medicine and Surgery, University of Cagliari.

**A.Y. 2016/2018:** Subject Expert for SSD Pharmacology (BIO/14) in the Pharmacology teaching course (odd year) of the Faculty of Medicine and Surgery, University of Cagliari.

## **Participation in the examination commission for the exams for the courses of:**

- Member of the Teaching Board of the PhD in Neuroscience, University of Cagliari. (A.Y. 2024-2025).
- Integrated course in Pathology and Pharmacology for the Nursing studies (A.Y. 2020-2021; A.Y. 2021-2022; A.Y. 2022-2023)
- Integrated Course in "Elements of Clinical Medicine" (A.Y. 2020-2021)
- Pharmacology Course, Faculty of Medicine, University of Cagliari (A.Y. 2016-2017; A.Y. 2017-2018; A.Y. 2018-2019; A.Y. 2019-2020)
- Subject Expert for SSD Pharmacology (BIO/14) in the Pharmacology teaching course of the Faculty of Medicine and Surgery, University of Cagliari (A.Y. 2016/2018; A.Y. 2018/2020)
- Reception and assistance (discussion of lecture topics, exam preparation for Nursing students).

- Co-tutor of Dr. Jihane Balla for the "International Ph.D program in Neurosciences", University of Cagliari, XXXVIII Cycle.
- Laboratory activity and thesis tutor:

## **Participation in research programs**

- *Scientific responsibility and participation in research projects:*

**Project funded by Fondazione di Sardegna, year: 2010:** Principal Investigator for the project "Study of the neurotoxic effect of alpha and beta interferons: characterization of molecular mechanisms and identification of potential pharmacological prevention interventions." (924/210.0299)

**04 U.P.B.S 12023:** Participation in the research group of Prof. Onali (Department of Biomedical Sciences, Section of Neuroscience and Clinical Pharmacology, University of Cagliari) for the research project "Study of the role of protease receptors in neurotransmission and neurodegenerative processes"; funded by the Autonomous Region of Sardinia.

**MIUR 28142:** Participation in the research group of Prof. Onali (Department of Biomedical Sciences, Section of Neuroscience and Clinical Pharmacology, University of Cagliari) for the research project "Development of methodologies for the modernization and study of drugs and biopharmaceuticals" CPR2\_221: Project management titled "Study of the neurotoxicity of interferons alpha and beta: direct effects on neuronal cells", promoted by the Autonomous Region of Sardinia, L.R 7 August 2007 n.7;

**CRP2\_22110 (2010-2012):** Principal Investigator for the research project titled "Study of the neurotoxicity of alpha and beta interferons: direct effects on neuronal cells". Project funded by the Autonomous Region of Sardinia under the competitive call and peer review "Young Researchers", L.R. 07/2007, Operational Program FSE Sardinia 2007-2013 for the Innovation of Scientific and Technological Research in Sardinia. Duration: 30 months.

**CRP 10810/2012:** Unit member for the project "Interferons and neuronal damage: study in cell cultures and animal models of depression"; funded by the Autonomous Region of Sardinia, L.R. n.7/2007. conducted at the Department of Biomedical Sciences, Section of Neuroscience and Clinical Pharmacology, University of Cagliari. (Principal investigator Prof. Onali)

**Project funded by Fondazione di Sardegna, year: 2012:** Participation in the research group of Dr. MC Olianas (Department of Biomedical Sciences, Section of Neuroscience and Clinical Pharmacology, University of Cagliari) for the research project "Study of the role of opioid receptors in the mechanism of action of antidepressant drugs".

**NS079172:** Participation in the research group of Prof. Italo Mocchetti, at the Laboratory of Preclinical Neurobiology, Department of Neuroscience, Georgetown University Medical Center, Washington, District of Columbia, USA for the project "Role of pro BDNF and p75NTR in HIV-mediated axonal/dendritic degeneration", grant funded by the US National Institute of Health (PI Prof. Italo Mocchetti) (from 30-09-12 to 31-08-2017).

**NS089446:** Unit member for the project "GPR75: a new CCL5 receptor that mediates neuroprotection against HIV", with the research group of Prof. Italo Mocchetti, at the Laboratory of Preclinical Neurobiology, Department of Neuroscience, Georgetown University Medical Center, Washington, District of Columbia, USA, (from 30-09-2014 to 31-08-2016) (PI Prof. Italo Mocchetti)

**NS074916:** Participation in the research group of Prof. Italo Mocchetti, at the Laboratory of Preclinical Neurobiology, Department of Neuroscience, Georgetown University Medical Center, Washington, District of Columbia, USA, for the project "Cellular and molecular mechanisms of gp120 neurotoxicity", grant funded by the US National Institute of Health (PI Prof. Italo Mocchetti) (from 30-09-2011 to 30-06-2013);

**Project funded by Fondazione di Sardegna, year: 2014:** Participation in the research group of Prof. Onali (Department of Biomedical Sciences, Section of Neuroscience and Clinical Pharmacology, University of Cagliari) for the research project "Phospholipid receptors as new molecular targets of antidepressant drugs";

**IBERNAT-NBL:** Unit member for the project Cluster Top Down: Collaboration with Prof. Onali (Department of Biomedical Sciences, Section of Neuroscience and Clinical Pharmacology, University of Cagliari) for the research project "New therapeutic strategies for childhood neuroblastoma", funded by the Autonomous Region of Sardinia (30 months from 05-02-2018 to 05-08-2020) (Principal Investigator Prof. Onali)

**BANDO RICERCA FINALIZZATA 2019:** Participation in the research group of Prof. Stefano Comai (Department of Pharmaceutical Sciences, University of Padova. Project Title: The clock is ticking on schizophrenia: a translational study integrating phenotypic, genomic, microbiome and biomolecular data to overcome disability. Principal Investigator: Stefano Comai. Project Code: GR-2019-12369523

**Project funded by Fondazione di Sardegna, year: 2019:** Participation in the research group of Prof. Mirko Manchia (Department of Medical and Public Health Sciences, University of Cagliari) for the project funded by Fondazione di Sardegna, year: 2019. Coordinator: Prof. Mirko Manchia. Project Title: Investigating neurobiological markers of obsessive-compulsive disorder: a cross-sectional study in different phenotypic subgroups

**Project funded by Fondazione di Sardegna, year: 2020:** Participation in the research group of Prof. Eleonora Cocco (Department of Medical and Public Health Sciences, University of Cagliari) for the project funded by

Fondazione di Sardegna. Project Title: "Renin – Angiotensin system's role in SARS-COV2 infection in multiple sclerosis: from bed to the bench-side" (F75F21001320007)

**Project funded by Fondazione di Sardegna, year: 2022:** Participation in the research group of Prof. Maria Scherma (Department of Biomedical Sciences, Section of Neuroscience and Clinical Pharmacology, University of Cagliari) for the project funded by Fondazione di Sardegna. Project Title: "Role of the orexin neuropeptide system in the pathophysiology of anorexia nervosa: a preclinical study in the Activity-Based Anorexia (ABA)

**PRIN Bando 2022:** Participation in the research group of Prof. Renato Bernardini for the project titled "Tackling inflammatory clues in neurodegeneration: the renin angiotensin system as a target for intervention in Alzheimer's disease", (Prot. 2022JRTZXP). Coordinator: Prof. Renato Bernanrdini.

**NEUROBRIDGE 2024 - TNE23-00034.** "Bridging neuroscience with neurotechnologies: an international advanced education program". Participation in the research group of Prof. Paola Fadda

### **Awards and recognitions**

**2005:** Winner of the National Scholarship for the training of researchers in "Industrial Biochemistry" funded by BIO-KER srl -Multimedica Group, Parco Tecnologico della Sardegna, Pula- Cagliari in collaboration with the Department of Biomedical Sciences and Clinical Pharmacology, University of Cagliari

**2010:** Winner of the Competitive Call Fondazione di Sardegna, year 2010 for the project "Study of the neurotoxic effect of alpha and beta interferons: characterization of molecular mechanisms and identification of possible pharmacological prevention interventions (PI Simona Dedoni).

**2010-2012:** Winner of the competitive call with peer review "Young Researchers", Regional Law No. 7 of 7/8/2007, Innovation of Scientific and Technological Research in Sardinia, for the project titled "Study of the neurotoxicity of alpha and beta interferons: direct effects on neuronal cells." Biennial funding (2010-2012) granted by: Autonomous Region of Sardinia Duration: 24 months. CRP2\_22110. (PI Simona Dedoni)

**2023:** Winner of the selection for the Young Researchers Mobility Program (MGR 2022) for the project "Mice deficient for G-protein-coupled receptor 75: implications for the endocrine system and neurotransmitter changes" at Georgetown University, D.C. Laboratory Head: Prof. Italo Mocchetti, funded by the Autonomous Region of Sardinia with funds from Regional Law No. 7 of August 7, 2007 "Promotion of Scientific Research and Technological Innovation in Sardinia". (PI Simona Dedoni)

## **Scientific collaboration relationships in Italy and abroad**

- Prof. Italo Mocchetti, Full Professor. Laboratory of Preclinical Neurobiology, Department of Neuroscience, Georgetown University Medical Center, Washington, District of Columbia, USA.
- Prof. ssa Valeriya Avdoshina, Associate Professor. Laboratory of Preclinical Neurobiology, Department of Neuroscience, Georgetown University Medical Center, Washington, District of Columbia, USA.
- Prof. Lee A. R. Campbell, Associate Professor. Laboratory of Preclinical Neurobiology, Department of Neuroscience, Georgetown University Medical Center, Washington, District of Columbia, USA
- Prof. ssa Ida AK Nilsson, Associate Professor, Team leader, The Neurobiology of Anorexia Nervosa
- Responsible for Spatial Biology at KIGene Core Facility Translational Psychiatry, Department of Molecular Medicine & Surgery, Karolinska Institutet

## **Bibliometric Indicators (from 2007 to present):**

Total number of publications (48) on SCOPUS (updated as of April 11, 2025):

Total number of citations: 793

H-INDEX: 18

Average Impact Factor: 4.4

The list of publications available on PubMed can be found at the following link:

<https://pubmed.ncbi.nlm.nih.gov/?term=dedoni+s&sort=date&size=50>

## **Member of Scientific Societies:**

- Italian Society of Pharmacology (SIF)
- Italian Society of Neuroscience (SINS)
- Society for Neuroscience (SFN)

## **Editorial Activities:**

- Associate Editor for Frontiers in Molecular Biosciences - Molecular Diagnostics and Therapeutics
- Review Editor for the Editorial Board of Molecular Signalling and Pathways (specialty section of Frontiers in Molecular Neuroscience) (ISSN 1662-5099)
- Guest Editor for Special Issue "Neuroblastoma: Molecular Pathology, Diagnostics and Therapeutics" in International Journal of Molecular Sciences (ISSN 1422-0067)
- Guest Editor for the Special Issue "Neurochemistry: Recent Advances and Future Opportunities in Antidepressants and Mood Stabilizer" in Molecules (ISSN 1420-3049)

- Guest Editor for a Special Issue on “Molecular Targets for Anti-inflammatory Therapy” in *Molecules* (ISSN 1420-3049)
- Guest Editor for Special Issue on "Compulsive Eating, Anorexia Nervosa and Obesity: From Prevention to Treatment" in *Nutrients* (ISSN 2072-6643)
- Guest Editor for a Special Issue on “Anti-inflammatory Molecules” in *Molecules* (ISSN 1420-3049)
- Guest Editor for a Special Issue on "Inflammation mood disorders” in *Frontiers in Bioscience-Landmark* (ISSN 2768-6701)

### **Ad hoc Reviewer for the following scientific journals:**

- *Frontiers in Molecular Neuroscience* (1662-5099)
- *British Journal of Pharmacology* (ISSN 0007-1188)
- *Journal of Pharmacology and Experimental Therapeutics* (ISSN 0022-3565)
- *Brain Research Bulletin* (ISSN 0361-9230)
- *International Journal of Molecular Sciences* (ISSN 1422-0067)
- *Antioxidants* (ISSN 2076-3921)
- *Molecules* (ISSN 1420-3049)
- *Nutrients* (ISSN: 2072-6643)

### **Foreign Language Proficiency**

English language proficiency level B2, certified by the "International English Center" on February 24, 2023

### **Participation in national and international conferences and conferences**

#### **- Speaker in short communications at conferences**

1. Oral communication entitled: Communicating the mission of oncology research to generate knowledge. FestivalScienza, XVII edition “Contaminando”, 7-12 November 2024, ExMa, Cagliari, Italy
2. Oral presentation titled: Preclinical studies of Anorexia Nervosa in an animal model. 20th National Congress of the Italian Society for Neuroscience (SINS), September 14-17, 2023, Turin, Italy.
3. Oral presentation titled: Anaplastic lymphoma kinase receptor: possible involvement in anorexia nervosa. 41st National Congress of the Italian Pharmacological Society (SIF), November 16-19, 2022, Rome, Italy.
4. Oral presentation titled: IBERNAT-NBL: searching for new therapeutic strategies for neuroblastoma. Sinnova, October 4, 2019, Cagliari, Italy.
5. Oral presentation titled: Differential modulation of neurotrophin receptor expression and signaling by Type I Interferons. 5th International MNS Meeting - Sardinia, Italy, June 12-15, 2015.
6. Oral presentation titled: Study of the biological activity of interferons and their derivatives by determining the activation of the JAK/STAT pathway. Conference on Experimentation and

## **Communications at Conferences**

7. C. Camoglio, J. Balla, P.Fadda, **S. Dedoni**. Oleoylethanolamide and palmitoylethanolamide enhance IFN $\beta$ -induced apoptosis in human neuroblastoma SH-SY5Y cells. 42° Congresso Nazionale della Società Italiana di Farmacologia-SIF. 13-16 November 2024, Sorrento, Italy.
8. **S. Dedoni**: Communicating the mission of oncology research to generate knowledge. FesrivalScienza, XVII edition “Contaminando”, 7-12 November 2024, ExMa, Cagliari, Italy
9. C. Camoglio, J. Balla, P.Fadda, **S. Dedoni**. Oleoylethanolamide and palmitoylethanolamide enhance IFN $\beta$ -induced apoptosis in human neuroblastoma SH-SY5Y cells. The Neuroscience of Cancer “More than Neurons” Conference- Breaking Border Series October 2-4, 2024. San Lazzaro Bologna, Italy
10. **S. Dedoni**, L. Marras, M.C. Olianas, A. Ingianni, P. Onali. Valproic acid upregulates the expression of the neurotrophin receptor TrkC in human neuroblastoma cells. Experimental Biology 4-7 April 2020 San Diego, CA, U.S.A.
11. **S. Dedoni**, L. Marras, M.C. Olianas, A. Ingianni, P. Onali. Altered neurotrophin receptor expression and signalling by histone deacetylase inhibitors in human neuroblastoma cells. 49<sup>th</sup> Meeting of the Society for Neuroscience. 19-23 October 2019, Chicago (IL) U.S.A.
12. **S. Dedoni**, M.C. Olianas, P. Onali. Histone deacetylase inhibitors down-regulate anaplastic lymphoma kinase (ALK) and induce apoptosis in human neuroblastoma cells. 48<sup>th</sup> Meeting of the Society for Neuroscience. 3-7 November 2018, San Diego, U.S.A
13. **S. Dedoni**, presentazione orale dal titolo “*Induzione citospecifica di bersagli molecolari di superficie aggredibili con immunotossine*” Progetto Cluster “Top-Down” Kick-off meeting Cittadella Universitaria di Monserrato, 19 luglio 2018 Università degli Studi di Cagliari
14. **S. Dedoni**, M.C. Olianas, P. Onali. Up-regulation of the neurotrophin receptor p75NTR by valproic acid in human neuroblastoma cells. 47<sup>th</sup> Meeting of the Society for Neuroscience. 11-15 November 2017, Washington DC, U.S.A.
15. **S. Dedoni**, M.C. Olianas, P. Onali. Down-regulation of TrkB expression and signaling by the anti-convulsant drug valproic acid. 46<sup>th</sup> Meeting of the Society for Neuroscience. 12-16 November 2016 San Diego, U.S.A.
16. **S. Dedoni**, M.C. Olianas, P. Onali. Synergistic interaction of histone deacetylase inhibitors with interferon- $\beta$  in inducing apoptosis of human neuroblastoma cells. Experimental Biology 2-4 April 2016 San Diego, U.S.A.
17. **S. Dedoni**, M.C. Olianas, P. Onali. Enhancement of human neuroblastoma cell apoptosis by combined treatment with valproic acid and interferon- $\beta$ . 45<sup>th</sup> Meeting of the Society for Neuroscience. 17-21 October Chicago 2015, U.S.A.
18. **S. Dedoni**, V Avdoshina, I Mocchetti. CCL5 activates a orphan G-protein coupled receptor 75 in human neuroblastoma SH-SY5Y cell line. 44<sup>th</sup> Meeting of the Society for Neuroscience. 15-19 November 2014 Washington, U.S.A.
19. **S. Dedoni**, V. Avdoshina, L.A. Campbell, S. J. Rozzi, I. Mocchetti. Neuroprotective effect of CCL5 via the G-protein coupled receptor 75 (GPR75) activation. 20<sup>th</sup> Meeting of Society of NeuroImmune Pharmacology (SNIP). 26-29 March 2014 New Orleans, U.S.A.
20. **S. Dedoni**, M.C. Olianas, P. Onali. Interferon- $\beta$  alters neurotrophin-3 TrkC receptor expression and signaling in differentiated human SH-SY5Y neuroblastoma cells. 43<sup>th</sup> Meeting of the Society for Neuroscience. 9-13 November 2013 San Diego, U.S.A.
21. **S. Dedoni**, M.C. Olianas, P. Onali. Type I interferons upregulate p75 neurotrophin receptor expression and signaling in human neuroblastoma cells. 42<sup>th</sup> Meeting of the Society for Neuroscience. 13-17 October 2012 New Orleans, U.S.A.

22. **S. Dedoni**, M.C. Olianas, P. Onali. Type I Interferon and depression: impairment of BDNF-induced cell signaling and neurogenesis by interferon-beta. Anxiety and Depression: 21<sup>st</sup> Neuropharmacology Conference 10-11 November 2011. Falls Church, VA. U.S.A.
23. **S. Dedoni**, M.C. Olianas, P. Onali. Interferon- $\beta$  impairs BDNF-induced neuronal signaling and differentiation. 41<sup>st</sup> Meeting of the Society for Neuroscience. 12-16 November 2011 Washington, U.S.A.
24. **S. Dedoni**, M.C. Olianas, P. Onali. Interferon- $\beta$  activates neuronal signaling pathways associated with stress and depression. S. 40<sup>th</sup> Meeting of the Society for Neuroscience. 13-17 November 2010. San Diego, CA. U.S.A.
25. **S. Dedoni**, M.C. Olianas, P. Onali. Type I interferons induce apoptosis in human neuroblastoma cells: modulation by glycogen synthase kinase-3 $\beta$  activity. 39<sup>th</sup> Meeting of the Society for Neuroscience. 15-19 October 2009. Chicago, IL, U.S.A.

### **Book Chapter:**

1. Scherma M, Collu R, **Dedoni S**, Fratta W, and Fadda P. Modeling Anorexia Nervosa-Brain Inflammatory Eicosanoids. © Springer Nature Switzerland AG 2022 V. Patel, V. Preedy (eds.), eating disorders, [https://doi.org/10.1007/978-3-030-67929-3\\_24-1](https://doi.org/10.1007/978-3-030-67929-3_24-1)
2. **Dedoni S**, Camoglio C, Siddi C, Balla J, Scherma M and Fadda P. Anorexia nervosa and the anaplastic lymphoma kinase receptor. Handbook of the Biology and Pathology of Mental Disorders. © Springer Nature Switzerland. *In production*

### **Scientific Publications**

#### 48 PUBLICATIONS IN INTERNATIONAL SCIENTIFIC JOURNALS

1. Balla J, Siddi C, Scherma M, Fadda P, **Dedoni S**. Antibody Conjugates in Neuroblastoma: A Step Forward in Precision Medicine. *Frontiers in Oncology*. *Front Oncol*. 2025 Mar 10;15:1548524. doi: 10.3389/fonc.2025.1548524. eCollection 2025
2. **Dedoni S**, Avdoshina V, Olianas MC, Onali P. “Unraveling the biological role of lysophosphatidic acid in neurological pathologies” for consideration by FBL, Special Issue "Inflammation and Mood Disorders". *Accepted on 12-01-2025*
3. Spero V, Scherma M, D'Amelio S, Collu R, **Dedoni S**, Camoglio C, Siddi C, Fratta W, Molteni R, Fadda P. Activity-based anorexia (ABA) model: Effects on brain neuroinflammation, redox balance and neuroplasticity during the acute phase. *Neurochem Int*. 2024 Nov;180:105842. doi: 10.1016/j.neuint.2024.105842. Epub 2024 Sep 6. PMID: 39244038.
4. Mercuriali G, Lodde L, Paribello P, Sapienza J, Corona A, Ave C, Pacini D, Nocera D, Corrias C, El Kacemi S, D'Incalci M, Frau I, Monzani E, Valtorta F, Congiu D, Meloni A, Scherma M, Fadda P, **Dedoni S**, Siddi C, Sut S, Dall'Acqua S, Nasini S, Barzon B, Squassina A, Cavallaro R, Manchia M, Pisanu C, Bosia M, Comai S. The clock is ticking on schizophrenia: a study protocol for a translational study integrating phenotypic, genomic, microbiome and biomolecular data to overcome disability. *Front Psychiatry*. 2024 Oct 30;15:1451678. doi: 10.3389/fpsy.2024.1451678. PMID: 39540006; PMCID: PMC11557306.

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