

Europass Curriculum Vitae







Personal Information

First and Last Name **Alberto Granzotto**

Date and place of birth Montebelluna (TV)
06/08/1985

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Citizenship Italian

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 WoS ResearcherID: A-2423-2010
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Work experiences

Date **October 2025 → Ongoing**
Associate Professor
University G. d'Annunzio of Chieti-Pescara
Dept. of Neuroscience, Imaging, and Clinical Sciences

Date **October 2022 → October 2025**
Type B Researcher (RTD-B)
Center for Advanced Sciences and Technology (CAST)
University G. d'Annunzio of Chieti-Pescara
Dept. of Neuroscience, Imaging, and Clinical Sciences

Date **February 2020 → October 2022**
Type A Researcher (RTD-A)
Center for Advanced Sciences and Technology (CAST)
University G. d'Annunzio of Chieti-Pescara
Dept. of Neuroscience, Imaging, and Clinical Sciences

Date **February 2020 → March 2022**
Project Scientist – Marie Skłodowska-Curie Actions fellow
University of California – Irvine (UCI)
Dept. of Neurobiology and Behavior
Supervisor: **Prof. Mathew Blurton-Jones**
E-mail: mblurton@uci.edu

And
University of California – Irvine (UCI)
Dept. of Neurobiology and Behavior
Supervisor: **Prof. Ian Parker**
Email: iparker@uci.edu

Date **September 2013 → January 2020**



	<p>Postdoctoral fellow Center for Advanced Sciences and Technology (CAST) University G. d'Annunzio of Chieti-Pescara Dept. of Neuroscience, Imaging, and Clinical Sciences Supervisor: Prof. Stefano Sensi E-mail: ssensi@uci.edu</p>	
Date	January 2011 → August 2013	
	<p>Visiting student Center for Advanced Sciences and Technology (CAST) University G. d'Annunzio of Chieti-Pescara Dept. of Neuroscience, Imaging, and Clinical Sciences Supervisor: Prof. Stefano Sensi E-mail: ssensi@uci.edu</p>	
Date	February 2010 → December 2012	
	<p>PhD in "Biology and Medicine of Regeneration" CNR – Institute of Biomedical Technologies University of Padua Dept. of Pharmacological Sciences Supervisor: Prof. Paolo Zatta E-mail: zatta@bio.unipd.it</p>	 
Date	October 2010 → November 2010	
	<p>Visiting student Dept. of Chemical Sciences University of Concepcion Supervisor: Prof. Mario Suwalsky E-mail: msuwalsk@udec.cl</p>	
Date	February 2009 → January 2010	
	<p>Experimental thesis: "<i>Modelli sperimentali per lo studio della malattia di Alzheimer come patologia conformazionale: aggregazione di β-amiloide in presenza di ioni metallici</i>" CNR – Institute of Biomedical Technologies University of Padua Dept. of Biological Sciences Supervisor: Prof. Paolo Zatta E-mail: zatta@bio.unipd.it</p>	
Education		
Date	January 2013	
	<p>PhD in "Biology and Medicine of Regeneration" Dept. of Pharmacological Sciences, University of Padua, Italy</p>	
Date	November 2010	
	<p>Pharmacy Professional License University of Padua, Italy</p>	
Date	October 2004 – October 2009	
	<p>Master's degree in pharmacy, PharmD (Oct. 2009) University of Padua, Italy</p>	
Date	1999 – 2004	
	<p>High School Diploma Liceo scientifico "G. Marconi"</p>	

Professional skills

Mother Tongue Italian

Other languages English (Level C2)

Schools and conferences

Schools and continuing education
2016: HarvardX Course in Cell Biology: Mitochondria (MCB61.1x), Harvard University, Certified Online Course
2015: Certification for the use of laboratory animals for scientific and educational purposes, Teramo (Italy)
2010: XIV School of Pure and Applied Biophysics in Molecular Mechanisms of Neurodegeneration, Venice (Italy)

Invited Speaker

September 2025: 21st SINS National Congress - Goin' Places: The Role of Ca²⁺ Signaling in the Motility of Human iPSC-Derived Microglia – Symposium – Pisa (Italy)
September 2023: Società Italiana Neurologi Ospedalieri (SNO) Congress – New therapies in AD dementia: big bang or big flop? – Florence (Italy)
June 2023: School of Bioinorganic Chemistry, Italian Chemical Society (SCI) – Seminar: Zinc in the brain: The dark (and bright) side of the ion – University of Campania L. Vanvitelli – Caserta (Italy)
June 2022: Center of Excellence on Aging (CEA) Meeting – Seminar: Should I stay or should I go. Microglia motility in health and disease – Chieti (Italy)
February 2022: UC Irvine Neurodegeneration Community Workshop - Mechanisms of resilience to excitotoxic challenges. A focus on NADPH-diaphorase neurons – Online (USA)
September 2021: Neurowebinars – Zinc in the brain: The dark (and bright) side of the ion – Neuromed – Online (Italy)
April 2021: Moving Forward – Modelling neurodegeneration...moving beyond (mouse) neurons – Online (Italy)
December 2019: PhDay Meeting - Post-doc: the (one) way ahead – Chieti (Italy)
July 2019: University G. d'Annunzio Grant Lectures – MSCA-IF-Global Fellowship - A personal perspective. Revised. – Chieti (Italy)
July 2019: Giornate Scientifiche del DST – Strategie neuroprotettive nella demenza di Alzheimer. The program GLP-1.exe is running - University of Sannio – Benevento (Italy)
June 2019: 4th International Brain Research School – Intracellular zinc mobilization is required for nNOS (+) neuron loss. Role of zinc in the excitotoxic cascade – Isparta (Turkey)
May 2016: 6th FESTEM Symposium on Trace Elements and Minerals – Metal homeostasis in dementia – Catania (Italy)
April 2016: European Workshop on Cell Death – Pyruvate prevents the development of age-dependent cognitive deficits in a mouse model of Alzheimer's disease – Fuggi (Italy)

Congresses

September 2025: XX Congress SINDem 2025 Poster presentation Rome (Italy)
June 2025: IV SIRTEPS Congress – Off target interaction of the amyloid PET

imaging tracer PiB with acetylcholinesterase – [Flash talk](#) – Ventotene (Italia)
May 2024: EMBO Workshop “Microglia in Health and Disease” [Poster presentation](#) Genoa (Italy)
June 2022: European Workshop on Cell Death [Poster presentation](#) Fiuggi (Italy)
September 2019: ISZB 2019 Meeting [Poster presentation](#) Kyoto (Japan)
May 2018: European Workshop on Cell Death [Poster presentation](#) Fiuggi (Italy)
March 2017: SINDEM [Poster presentation](#) Firenze (Italy)
March 2013: ADPD 2013 [Poster presentation](#) Firenze (Italy)
October 2012: SIB 2012 Società Italiana di Biochimica e Biologia Molecolare [Poster presentation](#) Chieti (Italy)
November 2011: Neuroscience 2011 [Poster presentation](#) Washington DC (USA)
July 2011: ICAD 2011 Alzheimer's Association International Congress [Poster presentation](#) Paris (France)
September 2010: “20th National Congress SIBPA” Italian Society of Pure and Applied Biophysics. [Poster presentation](#) Arcidosso (Italy)

Research Fundings

2023-2026 “Inflammation, Microglia, and HypOxia in neurodegeneration – IMHO”, PRIN 2022 PNRR - P2022WPRKA, (242 975,00 EUR), Role: PI
2023-2025 “Inflammation Profiling in the onset and progression of Parkinson's disease”, Italian Ministry of Health Research Grant, PNRR 2022 (1 000 000 EUR), Role: Co-I
2020-2023 “iPS-derived Microglia and Neuroinflammation in Dementia – iMIND” Marie Skłodowska-Curie Actions fellowship (MSCA-IF GF 2018; 269 002,56 EUR) Role: PI
2015 “Più Ricerca e Innovazione” PO FSE Fellowship (10 000 EUR)
2010 SIBPA (Italian Society of Pure and Applied Biophysics) Fellowship (500,00 EUR - Travel Grant)

Publications

1. Bellia F, Amodei L, Ruggieri AG, Potenza F, Viele M, Bomba M, Del Pizzo F, Iezzi M, **Granzotto A**, Federici L, Sallèse M (2026) Systematic Phenotyping and Molecular Analysis of the Woozy Mouse: A Preclinical Model of Cerebellar Ataxia. *Molecular Neurobiology*. 63, 258.
2. **Granzotto A**, Fullone R, Miccoli L, Bomba M, Di Marzio C, Delli Pizzi S, Floresta G, and Sensi SL. (2025) Potential Off-Target Interaction of the Amyloid PET Imaging Tracer PiB with Acetylcholinesterase. *ACS Omega* 10 (41), 48544-48550
3. Falasca NW, Ferretti A, **Granzotto A**, Sensi SL, Franciotti, R. (2025) Machine learning models of Alzheimer's disease spectrum using blood tests. *Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring* 17 (4), e70228
4. Squitti R, Benussi A, Fostinelli S, Geviti A, Rivolta J, Ventriglia M, Micera M, Rongioletti M, Ghidoni R, Santilli M, **Granzotto A**, Albanese A, Binetti G, Sensi SL, and Borroni B. (2025) Zinc Therapy in Mild Cognitive Impairment: Cognitive Stabilization in Pharmacodynamically Responsive Patients in the

- ZINCAiD Trial. *Biomolecules* 15, 1268
5. Bubbico G, Tomaiuolo F, Sestieri C, Akhlaghipour G, **Granzotto A**, Ferretti A, Perrucci MG, Sensi SL, and Delli Pizzi S. (2025) Learning a Foreign Language in Older Adults Shapes the Functional Connectivity of Distinct Cerebellar Sub-Regions With Cortical Areas Rich in CB1 Receptor Expression. *Brain and Behavior* 15, no. 5: e70565
 6. Floresta G, **Granzotto A**, Patamia V, Arillotta D, Duccio Papanti G, Guirguis A, Corkery JM, Martinotti G, Sensi SL, Schifano F. (2025) Xylazine as an emerging new psychoactive substance; focus on both 5-HT₇ and κ -opioid receptors' molecular interactions and isosteric replacement. *Archiv der Pharmazie*, 358:e2500041
 7. Punzi M, Sestieri C, Picerni E, Chiarelli AM, Padulo C, Delli Pizzi A, Tullo MG, Tosoni A, **Granzotto A**, Della Penna S, Onofrj M, Ferretti A, Delli Pizzi S, Sensi SL (2024) Atrophy of Hippocampal Subfields and Amygdala Nuclei in Subjects with Mild Cognitive Impairment Progressing to Alzheimer's Disease. *Heliyon* 10, no. 6
 8. **Granzotto A**, Vissel B, Sensi SL. (2024) Lost in Translation: Inconvenient Truths on the Utility of Mouse Models in Alzheimer's Disease Research. *eLife* 13, e90633
 9. Censi S, Mariani Costantini R, **Granzotto A**, Tomassini V, Sensi SL. (2024) Endogenous retroviruses in multiple sclerosis: A network-based etiopathogenic model. *Ageing Research Reviews*, 102392
 10. **Granzotto A**, McQuade A, Chaderavian JP, Davtyan H, Sensi SL, Parker I, Blurton-Jones M, Smith I. (2024) ER and SOCE Ca²⁺ signals are not required for directed cell migration in human microglia. *Cell Calcium* 123, 102923
 11. Punzi M, Sestieri C, Picerni E, Chiarelli AM, Padulo C, Delli Pizzi A, Tullo MG, Tosoni A, **Granzotto A**, Della Penna S, Onofrj M, Ferretti A, Delli Pizzi S, Sensi SL. (2024) Atrophy of hippocampal subfields and amygdala nuclei in subjects with mild cognitive impairment progressing to Alzheimer's disease. *Heliyon* 10, 6, e27429
 12. **Granzotto A** and Sensi SL. (2024) Once upon a time, the amyloid cascade hypothesis. *Ageing Res Reviews* 93, 102161
 13. Padulo C, Sestieri C, Punzi M, Picerni E, Chiacchiaretta P, Tullo MG, **Granzotto A**, Baldassarre A, Onofrj M, Ferretti A, Delli Pizzi S, Sensi SL for the Alzheimer's Disease Neuroimaging Initiative (ADNI). (2023) Atrophy of Specific Amygdala Subfields in Subjects Converting to Mild Cognitive Impairment. *Alzheimer Dementia: Transl Res & Clinical Interventions* 9, no. 4: e12436.
 14. Corniello C, Dono F, Evangelista G, Consoli S, De Angelis S, Cipollone S, Liviello D, Polito G, Melchiorre S, Russo M, **Granzotto A**, Anzellotti F, Onofrj M, Thomas A, Sensi SL. (2023) Diagnosis and treatment of late-onset myoclonic epilepsy in Down syndrome (LOMEDS): a systematic review with individual patients' data analysis. *Seizure*
 15. Russo M, De Rosa M, Calisi D, Consoli S, Evangelista G, Dono F, Santilli M, **Granzotto A**, Onofrj M, Sensi SL. (2022) Migraine pharmacological treatment and cognitive impairment: risks and benefits. *Int J Mol Sci* 23, 11418
 16. Avan A, Członkowska A, Gaskin S, **Granzotto A**, Sensi SL, Hoogenraad TU (2022) The Role of Zinc in the Treatment of Wilson's Disease. *Int J Mol Sci* 23, 9316.
 17. **Granzotto A**, d'Aurora M, Bomba M, Gatta V, Onofrj M, Sensi SL (2022) Long-term dynamic changes of NMDA receptors following an excitotoxic challenge. *Cells* 11(5), 911
 18. Jairaman A*, McQuade A*, **Granzotto A**, Kang YJ, Chadarevian JP, Gandhi S,

- Parker I, Smith I, Othy S, Cho H, Blurton-Jones M, Cahalan MD (2022) TREM2 regulates purinergic receptor-mediated calcium signaling and motility in human iPSC-derived microglia. *eLife* 11: e73021 * *Co-first authors*
19. **Granzotto A**, Weiss JH, Sensi SL (2022) Editorial: Excitotoxicity Turns 50. The Death That Never Dies. *Front Neurosci* 15:831809
 20. Massetti M*, Russo M*, Franciotti R*, Nardini D, Mandolini G, **Granzotto A**, Bomba M, Delli Pizzi S, Mosca A, Scherer R, Onofrj M, Sensi SL for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2022) A Machine Learning-Based Holistic Approach to Predict the Clinical Course of Patients within the Alzheimer's Disease Spectrum. *J Alz Dis* 85(4), 1639–1655 * *Co-first authors*
 21. Squitti R, Ventriglia, M, **Granzotto A**, Sensi SL, Rongioletti MCA (2021) Non-Ceruloplasmin Copper as a Stratification Biomarker of Alzheimer's Disease Patients: How to Measure and Use It. *Curr Alz Res* 18(7): 533-545
 22. Squitti R, Faller P, Hureau C, **Granzotto A**, White AR, Keep KP (2021) Copper imbalance in Alzheimer's disease and its link with the amyloid hypothesis: Towards a combined clinical, chemical, and genetic etiology. *J Alz Dis* 83(1): 23-41
 23. Carrarini C, Russo M, Dono F, Barbone F, Rispoli M, Ferri L, Di Pietro M, Digiovanni A, Ajdinaj P, Speranza R, **Granzotto A**, Frazzini V, Thomas A, Pilotto A, Padovani A, Onofrj M, Sensi SL, Bonanni L (2021) Agitation and Dementia: Prevention and Treatment Strategies in Acute and Chronic Conditions. *Front Neurol* 12: 480
 24. **Granzotto A**, Canzoniero LM, Sensi SL (2020) A Neurotoxic Ménage-à-trois: Glutamate, calcium, and Zinc in the Excitotoxic cascade. *Front Mol Neurosci* 13: 225
 25. Delli Pizzi S, **Granzotto A**, Bomba M, Frazzini V, Onofrj M, Sensi SL (2020) Acting Before; A Combined Strategy to Counteract the Onset and Progression of Dementia. *Curr Alz Res* 17(9): 790-804
 26. **Granzotto A**, Sensi SL (2020) Minocycline – A lesson from a failure. *JAMA Neurol* 77(8): 1037-1038
 27. **Granzotto A**, Bomba M, Castelli V, Navarra R, Massetti N, Onofrj M, Cicalini I, del Boccio P, Cimini A, Piomelli D and Sensi SL (2019) Inhibition of de novo ceramide biosynthesis affects aging phenotype in an in vitro model of neuronal senescence. *Aging* 11(16): 6336–6357
 28. Bomba M*, **Granzotto A***, Castelli V, Onofrj M, Lattanzio R, Cimini A, And Sensi SL (2019) Exenatide reverts the high-fat-diet-induced impairment of BDNF signaling and inflammatory response in an animal model of Alzheimer's disease. *J Alz Dis* 70(3): 793–810 * *Co-first authors*
 29. **Granzotto A** (2019) Intracellular zinc mobilization is required for nNOS (+) neuron loss. Role of zinc in the excitotoxic cascade. *J Cell Neurosci and Oxid Stress* 11:5-5
 30. Sensi SL, **Granzotto A**, Siotto MC, Squitti R (2018) Copper and Zinc dysregulation in Alzheimer's Disease. *Trends Pharmacol Sci*.
 31. Frazzini V*, **Granzotto A***, Bomba M, Massetti N, Castelli V, D'Aurora M, Punzi M, Iorio M, Mosca A, Delli Pizzi S, Gatta V, Cimini A, Sensi SL (2018) The pharmacological perturbation of brain zinc impairs BDNF-related signaling and the cognitive performances of young mice. *Sci Rep* 8:9768 * *Co-first authors*
 32. Mosca A*, Sperduti S*, Pop V, Ciavardelli D, **Granzotto A**, Punzi M, Stuppia L, Gatta V, Assogna F, Banaj N, Piras F, Piras F, Caltagirone C, Spalletta G, Sensi SL (2018) Influence of *APOE* and *RNF219* on Behavioral and Cognitive Features of Female Patients Affected by Mild Cognitive Impairment or Alzheimer's Disease. *Front Aging Neurosci* 10:(92). * *Co-first authors*

33. Bomba M*, **Granzotto A***, Castelli V, Massetti N, Silvestri E, Canzoniero LM, Cimini A, Sensi SL (2017) Exenatide exerts cognitive effects by modulating the BDNF-TrkB neurotrophic axis in adult mice. *Neurobiol Aging* 64:33-43. * *Co-first authors*
34. **Granzotto A**, Sensi SL (2015) Intracellular zinc is a critical intermediate in the excitotoxic cascade. *Neurobiol Dis.* 10.1016/j.nbd.2014.11.013.
35. Isopi E, **Granzotto A**, Corona C, Bomba M, Ciavardelli D, Curcio M, Canzoniero LM, Navarra R, Lattanzio R, Piantelli M, Sensi SL (2014) Pyruvate prevents the development of age-dependent cognitive deficits in a mouse model of Alzheimer's disease without reducing amyloid and tau pathology. *Neurobiol Dis* doi: 10.1016/j.nbd.2014.11.013.
36. **Granzotto A**, Zatta P (2014) Resveratrol and Alzheimer's disease: message in a bottle on red wine and cognition. *Front Aging Neurosci* 6:(95).
37. D'Aurora M*, Gatta V*, **Granzotto A**, Stuppia L, Sensi SL (2014) Age-dependent changes in gene expression profiles of 3xTg-AD mice. *Cell Death Dis* 5(2): e1054. * *Co-first authors*
38. Canzoniero LM, **Granzotto A**, Turetsky DM, Choi DW, Dugan LL, Sensi SL. (2013) nNOS(+) striatal neurons possess functional NMDA receptors but fail to generate mitochondrial ROS in response to an excitotoxic challenge. *Front Physiol*, 4:112.
39. Gatta V*, **Granzotto A***, Fincati K, Drago D, Bolognin S, Zatta P and Sensi SL. (2012) Microarray analysis of gene expression profiles in human neuroblastoma cells exposed to A β -Zn and A β -Cu complexes. *Future Neurology* 7(4): 483-497. * *Co-first authors*
40. **Granzotto A**, Zatta P. (2012) Metal ions and Beta amyloid: conformational modifications and biological aspects, book chapter in "Metal ions in neurological systems", editor Linert W. 77-83.
41. **Granzotto A**, Zatta P. (2011) Resveratrol acts not through anti-aggregative pathways but mainly via its scavenging properties against β -amyloid and β -amyloid-metal complexes toxicity. *PLoS ONE* 6(6): e21565.
42. **Granzotto A**, Suwalsky M, Zatta P. (2011) Physiological cholesterol concentration is a neuroprotective factor against β -amyloid and β -amyloid-metal complexes toxicity. *J Inorg Biochem* 105(8), 1066-1072.
43. **Granzotto A**, Bolognin S, Scancar J, Milacic R and Zatta P. (2011) Beta-amyloid toxicity increases with hydrophobicity in the presence of metal ions. *Monats Chem*, 142(4), 421-430.

Honors and awards

2025 – Best Poster Award – XX Congresso Società Italiana di Neurologia per le Demenze (SINdem 2025) – Rome, Italy

Reviewer activity

Journals

Acta Diabetologica, Aging, Archives of Biochemistry and Biophysics, BMC Neuroscience, Brain, Brain Research, British Journal of Nutrition, Cell Calcium, Colloids and Surfaces B: Biointerfaces, F1000 Research, Frontiers in Aging Neuroscience, Frontiers in Behavioral Neuroscience, Frontiers in Cellular Neuroscience, Frontiers in Endocrinology, Frontiers in Neurology, Frontiers in Neuroscience, Frontiers in Psychiatry, International Journal of Molecular Sciences, Journal of Alzheimer's Disease (JAD), Journal of Trace Elements in Biology and Medicine, Molecular Biology Reports, Molecular Brain, Monatshefte für Chemie - Chemical Monthly, Neurochemical Research,

PlosONE, Scientific Reports, Translational Neurodegeneration
Certified by Web of Science
(<https://www.webofscience.com/wos/author/record/A-2423-2010>)

Grants

EURAMET, Alzheimer's Association, Ingenium Alliance Grant

Editorial Activity

Frontiers in Neuroscience; Frontiers in Dementia
Certified by Web of Science
(<https://www.webofscience.com/wos/author/record/A-2423-2010>)

**Society
membership**

2025 – Current – SIRTEPS (Società Italiana Ricerca Traslazionale e Professioni Sanitarie)

Teaching

2012 - 2020 – Teaching assistant for the “Laboratory of Applied Neurosciences”, Dept. of Psychological Sciences, University G. D’Annunzio, Chieti-Pescara

2021 – 2023 - “Laboratory of Applied Neurosciences”, Dept. of Psychological Sciences, University G. D’Annunzio, Chieti-Pescara

2021 – 2023 – “Therapeutic Aids in Development”, University G. D’Annunzio, Chieti-Pescara

2021 – 2023 – “Advanced basis of Occupational Therapy in Psychiatry”, University G. D’Annunzio, Chieti-Pescara

2021 – 2023 – “Third-year Seminars”, University G. D’Annunzio, Chieti-Pescara

2021 – 2023 – “Tools in Occupational Therapy”, University G. D’Annunzio, Chieti-Pescara

2021 – Current - “Evaluation in Occupational Therapy”, University G. D’Annunzio, Chieti-Pescara

2023 – Current – “Research Methodology in Occupational Therapy”, University G. D’Annunzio, Chieti-Pescara

2023 – Current – “Occupational therapy internship”, University G. D’Annunzio, Chieti-Pescara

2025 – Current – “Teaching methodology”, University G. D’Annunzio, Chieti-Pescara

2025 – Current – “Ergonomics in workplaces for Occupational Therapists”, University G. D’Annunzio, Chieti-Pescara

2025 – Current – “Basic Pharmacology in Neurology”, University G. D’Annunzio, Chieti-Pescara

March 19th, 2026

Alberto Granzotto