

Silvia Valentinuzzi

Pharmaceutical chemist and technologist

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info: born the 30th of June 1993 in Venezia, Italy

PROFESSIONAL EXPERIENCES

November 2019-Present	Enrollment in the first year of XXXV cycle Medical Biotechnologies PhD course, department of Neuroscience, Imaging and Clinical Sciences, University of G. d'Annunzio (Lab of Analytical Biochemistry and Proteomics, CAST, University of G. d'Annunzio, Chieti) Innovative PhD with industrial characterization (PON): <i>"Nuove strategie per i second-tier test e per la conferma di malattie metaboliche ereditarie mediante Spettrometria di Massa"</i>
June 13 th , 2019	Liquid nitrogen safety training (CAST, University of G. d'Annunzio, Chieti)
April-October 2019	Research Scholarship: "Ruolo dei mir-181a e mir-181b nelle neoplasie a cellule B e sviluppo di approcci razionali per il loro uso come agenti terapeutici" (Pathology Lab of Professor R. Visone, CAST, University of G. d'Annunzio, Chieti)
January 16-17 th , 2019	Agilent Technologies' Seahorse Demo/training Workshop (CAST, University of G. d'Annunzio, Chieti)
August- September 2018	Collaboration on Experimental Thesis (CMM Professor C. Söderberg Naucler's group, Karolinska Institutet, Stockholm) <ul style="list-style-type: none">• Studies of mitochondrial dysfunction, pseudohypoxia phenotype and HCMV infections in HN-PGLs.• Studies of HN-PGL metabolism by Seahorse analyses.
October 2017-October 2018	Experimental Thesis (Pathology Lab of Professor R. Mariani Costantini, CAST, University of G. d'Annunzio, Chieti) <i>"Pseudohypoxia phenotype, mitochondrial dysfunction and HCMV infections in head and neck paragangliomas"</i>
May-June 2018	Stage on stem cells and DNA sequencing (Molecular Genetics laboratory of Professor L. Stuppia, Università G. d'Annunzio, Chieti) <ul style="list-style-type: none">• Stem cell cultures derived from amniotic liquid for prevention studies of genetic diseases.• Focus on DNA sequencing techniques (pyrosequencing, Sanger sequencing, Next Generation Sequencing).
September 29 th , 2017	Training course on safety at work (University of G. d'Annunzio, Chieti) <i>"Formazione lavoratori rischio medio"</i>
April-October 2017	Internship in pharmacy (Farmacia "Ferroni", Montesilvano) <ul style="list-style-type: none">• Assisted sale of over-the-counter drugs and prescription drugs• Galenic preparations• Orders management
February-June 2016	Internship in physiology (Physiology laboratory of Professor T. Pietrangelo, Università G. d'Annunzio, Chieti) <ul style="list-style-type: none">• Evaluation of muscular efficiency and regeneration in seniors.• Personalized work out for seniors to investigate the possibility to prevent sarcopenia by exercising.
May 10-13 th , 2016	Theoretical and practical course: "Nutrition Physiology: methods and measures" (Biophysics and Physiology School, Santa Cristina di Gubbio) <ul style="list-style-type: none">• Anthropometric evaluation and functional determination of body composition.• Direct and indirect calorimetry.• Functional evaluation of the energy cost of physical activity.

EDUCATION

18th October 2018	Master's Degree in Pharmaceutical Chemistry and Technology, University of G. d'Annunzio, Chieti. Final vote: 104/110.
2012	Scientific High School Diploma, Liceo scientifico Corradino D'Ascanio, Montesilvano. Final vote: 98/100.

TECHNICAL SKILLS

Laboratory techniques: DNA/RNA/protein extraction, PCR, Real-time PCR, Rapid In Situ Hybridization (RISH), Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Seahorse Technology, cell cultures, infections protocols, dissociation of tumors, MTT assay, blood processing, expression construct cloning, lentivirus production, Copy Number Variation (CNV) analysis, Amaxa Nucleofection, calcium phosphate transfection, UPLC-MS/MS technology, extraction methods. **Operating Systems:** Windows. **Software:** Image Lab, Graphpad, MassLynx, TargetLynx. **Other tools:** Text editors and word processors (Word), Excel, PowerPoint.

PUBLICATIONS

- CICALINI, I. et al. Development of a Rapid Mass Spectrometric Determination of AMP and Cyclic AMP for PDE3 Activity Study: Application and Computational Analysis for Evaluating the Effect of a Novel 2-oxo-1,2-dihydropyridine-3-carbonitrile Derivative as PDE-3 Inhibitor. **Molecules**, v. 25, n. 8, Apr 2020. ISSN 1420-3049. Disponível em: < <https://www.ncbi.nlm.nih.gov/pubmed/32326556> >.

CONFERENCE ABSTRACTS AND POSTER PRESENTATION

- F. Verginelli *et al*, "A possible role of a CMV-like virus in head and neck paraganglioma pathogenesis", Journal of Biological Regulators & Homeostatic Agents, Vol. 32, no. 4 (SI), 137 (2018).
- R. Mariani Costantini *et al*, "A developmental model of paragangliar tumorigenesis highlights therapeutic targets", 17th ENS@T Scientific Meeting – Firenze, 22-23 November 2018.
- M. Russel Pantalone *et al*, "Possible role of a CMV-like virus in paragangliomas", 17th ENS@T Scientific Meeting – Firenze, 22-23 November 2018.
- D. Liberata Esposito *et al*, "Molecular expression profiling shows pseudohypoxia phenotype, vasculogenesis and mitochondrial dysfunction in HN-PGLs", 17th ENS@T Scientific Meeting – Firenze, 22-23 November 2018.
- D. Liberata Esposito *et al*, "Molecular expression profiling shows overlapping pseudohypoxia phenotype and mitochondrial dysfunction in HN-PGLs", EACR Conference Series 'Mechanisms to Therapies: Innovations in Cancer Metabolism' – Bilbao, 09-11 October 2018.
- F. Verginelli *et al*, "A possible role of a CMV-like virus in head and neck paraganglioma pathogenesis", 4^o Congresso nazionale SIPMeL Patologia e Medicina di Laboratorio 4.0 – Catania, 23-25 October 2018.
- D. Liberata Esposito *et al*, "Hsa-miR-200 and hsa-miR34 miRNA family members target cellular and viral genes regulating HCMV infection in PGLs", Cancer and Metabolism Conference – Cambridge, 25-27 June 2018.
- S. Valentinuzzi *et al*, "CMV non-coding $\beta 2.7$ RNA promotes mitochondrial complex I dysfunction in paraganglioma via overexpression of NDUFA4L2", SIPMeT Young Meeting "Pathobiology: from molecular disease to clinical application" – Firenze, 13-14 September 2019.
- S. Vespa *et al*, "Ultrastructural and immunomorphological characterization of CMV infection in paragangliomas and derived xenografts", SIPMeT Young Meeting "Pathobiology: from molecular disease to clinical application" – Firenze, 13-14 September 2019.
- S. De Fabritiis *et al*, "CMV infection modulates HIF signaling in paraganglioma", SIPMeT Young Meeting "Pathobiology: from molecular disease to clinical application" – Firenze, 13-14 September 2019.
- S. De Fabritiis *et al*, "CMV infection modulates HIF signaling in paraganglioma", 18th ENS@T Scientific Meeting – Uppsala, 21-22 November 2019.

LANGUAGES

Italian 1 2 3 4 5

English 1 2 3 4

PERSONAL SKILLS

- Ability to challenge new fields; ▪ Flexibility, ability to adapt and good aptitude to work in team; ▪ Tenacity in front of hardships;
- Willing to travel for work.

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