

Simone De Fabritiis

Date and place of birth: 25/03/1994, Penne (PE) Italy

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Education

November 2019 – present: PhD in Translational Medicine, University G.d'Annunzio, Department of Medicine and Ageing Science, Center of Advanced Study and Technologies (CAST), Chieti, Italy. Research on the role of a CMV-like virus in head and neck paraganglioma pathogenesis.

December 2018: Qualification to practice as a Pharmacist

October 2013 – October 2018: Master's Degree in Medicinal Chemistry and Pharmaceutical Technology, University G.d'Annunzio, Chieti, Italy. Final vote: 110/110 cum laude. Experimental thesis topic: "Transcriptional effects of the HIF-1 α and HIF-2 α inhibitors treatments on preclinical models of head and neck paraganglioma".

September 2008 – July 2013: Scientific High School Diploma. Finale vote: 100/100. Liceo Scientifico "Luca da Penne", Penne, Italy.

Research experience

14 November 2019 – 25 February: Guest Researcher. Cecilia Söderberg-Nauclér's Lab, Department of Medicine, Karolinska Institutet in Stockholm, Sweden. Experience in Oxford Nanopore Technologies sequencing and *in vitro* characterization of CMV infection on human brain vessels perycites cell line (HBVP).

April 2019 – October 2019: Predoctoral Fellow. Unit of General Pathology, Ageing Research Center (CeSI-MeT), Chieti, Italy. Topic: "Role of miR-181a and miR-181b in B-cell neoplasms and development of rational approaches for their use as therapeutic agents."

Technical skills and competences

Transfection, DNA cloning, PCR, RT-PCR, Western Blot, Immunofluorescence, Immunohistochemistry, rapid-in-situ-hybridization (RISH), chromatin immunoprecipitation (ChIP), gel electrophoresis, DNA extraction, RNA extraction, proteins extraction, DNA sequencing through Big Dye, Oxford Nanopore Technology sequencing, Flow cytometry, manipulation of blood derivatives, *in vitro* viral infections, virus isolation, extracellular vesicles isolation, *in vitro* drug treatments, use of ultracentrifuges.

Conference Presentations

1. **De Fabritiis S**, Verginelli F, Vespa S, Soliman S, Pantalone MR, Perconti S, Esposito DL, Valentinuzzi S, Lanuti P, Celenza R, Angelini A, Vitaj J, Talucci I, Schiavi F, Di Marco M, Piras G, Vlad D, Sanna M, Lotti LV, Söderberg-Nauclér C and Mariani-Costantini R
CMV infection modulates HIF signaling in paraganglioma.
18th ENS@T Scientific Meeting, 21-22 Nov 2019, Uppsala, Sweden ([Poster presentation](#))
2. **De Fabritiis S**, Verginelli F, Vespa S, Soliman S, Lanuti P, Pantalone MR, Perconti S, Esposito DL, Valentinuzzi S, Celenza R, Angelini A, Vitaj J, Talucci I, Schiavi F, Di Marco AM, Pagotto S, Veronese A, Pisanisi E, Visone R, Vlad D, Söderberg-Nauclér C, Lotti LV, Sanna M, Mariani-Costantini R.
CMV infection modulates HIF signaling in paraganglioma.
PATHOBIOLOGY: FROM MOLECULAR DISEASE TO CLINICAL APPLICATION, SIPMeT Young Meeting, Florence, 13-14 September 2019 ([Poster presentation](#))
3. DL Esposito, F Verginelli, MR Pantalone, S Perconti, V Tarantini, S Valentinuzzi, A Ramassone, **S De Fabritiis**, S Vespa, A Veronese, M Sanna, R Visone, C Söderberg Nauclér, LV Lotti, R Mariani-Costantini.
Hsa-miR200 and hsa-miR34 miRNA family members target cellular and viral genes regulating HCMV infection in paraganglioma.
CANCER AND METABOLISM 2018 CONFERENCE, Cambridge, UK, 25-27, June 2018. (Poster)
4. R. Mariani-Costantini, S. Perconti, F. Verginelli, S. Vespa, M. R. Pantalone, F. Schiavi, S. Valentinuzzi, F. Napolitano, D. Vlad, M. Vacca, **S. De Fabritiis**, G. Raiconi, R. Tagliaferri, P. Lanuti, A. Cama, D. L. Esposito, S. Guarnieri, A. Sheu, R. Florio, A. Morgano, C. Rossi, G. Bologna, M. Marchisio, E. Taschin, R. Visone, A. Veronese, G. Opocher, A. Zangrandi, C. T. Paties, M. Sanna, C. Söderberg Nauclér, L. V. Lotti.
A developmental model of paragangliar tumorigenesis highlights therapeutic targets.
17TH EUROPEAN NETWORK FOR THE STUDY OF ADRENAL TUMOURS (ENS@T) SCIENTIFIC MEETING, Florence, Italy, 22-23 November 2018. (Poster)
5. F. Verginelli, D.L. Esposito, M.R. Pantalone, S. Perconti, S. Vespa, F. Schiavi, S. Soliman, **S. De Fabritiis**, V. Tarantini, S. Valentinuzzi, M. Di Marco, A. Ramassone, R. Florio, L. De Lellis, A. Sheu, M. Serluca, A. Cama, S.C. Prasad, A. Veronese, R. Visone, C. Paties, C. Soderberg-Nauclér, L.V. Lotti, M. Sanna, R. Mariani-Costantini.
A possible role of a CMV-like virus in head and neck paraganglioma pathogenesis.
Journal of Biological Regulators & Homeostatic Agents, 2018, 32, n.4 (S1):137-138. ([Proceeding](#)).