

PERSONAL INFORMATIONS:

First name: Vanessa

Last name: Tolotto

Date of birth: 30/04/1996

Nationality: Italian

Address: Via Almorò Albrizi, 26, 31046, Oderzo (TV), Italy

Phone number: +39 3492384397

Email address: tolotto.vanessa@spes.uniud.it, vanext96@gmail.com

EDUCATION AND TRAINING:

11/2020 - Current

PhD student in Biomedical Sciences and Biotechnology

Università degli Studi di Udine, Udine (Italy)

Supervisor: Prof. Claudio Brancolini

10/2018 – 09/2020

Master degree in Biotecnologie Molecolari

Università degli Studi di Udine, Udine (Italy)

Supervisor: Dr. Carlo Vascotto

Thesis title: APE1 translocates into the mitochondrial matrix through TIM23/PAM complex

Final grade: 110 cum Laude

10/2015 – 10/2018

Bachelor Degree in Biotecnologie

Università degli Studi di Udine, Udine (Italy)

Supervisor: Dr. Carlo Vascotto

Thesis title: Amplification of Smac/DIABLO isoform α mitochondrial targeting sequence by fusion PCR

Final grade: 108/110

09/2010 – 07/2015

Secondary school diploma (Liceo Scientifico)

Collegio Brandolini Rota, Oderzo (Italy)

Final grade: 100/100

WORK EXPERIENCE:

11/2020 - Current

PhD student

Università degli Studi di Udine, Udine (Italy)

Supervisor: Prof. Claudio Brancolini

10/2018 – 02/2020

Internship

Università degli Studi di Udine, Udine (Italy)

Supervisor: Dr. Carlo Vascotto

07/2018 – 09/2018

ERASMUS+ TRAINEESHIP

Centre of New Technologies – Laboratory of mitochondrial biogenesis
Prof. Agnieszka Chacinska

07/2017 – 07/2018

Internship

Università degli Studi di Udine, Udine (Italy)

Supervisor: Dr. Carlo Vascotto

LANGUAGE SKILLS:

Mother tongue: **Italian**

Other languages: **English** – B2 level

JOB-RELATED SKILLS:

Molecular biology techniques

Genomic and Plasmidic DNA extraction, RNA extraction and purification for RNA-seq, Gene cloning techniques (restriction enzyme cloning, oligo cloning, gateway cloning), preparation of competent bacteria, PCR, RT-PCR, qPCR, ChIP, CoIP, SDS page, western blot, immunofluorescence, mitochondria isolation and subfractionation

Cellular biology techniques

Cell culture, 3D culture of CRC and placental organoids, drug treatment, lenti viral infection, siRNA silencing, viability assays for 2D and 3D culture (resazurin assay, ATP assay), colony formation assay

PUBLICATIONS:

Di Giorgio E., Ranzino L., Tolotto V., Dalla E., Brancolini C., Transcription of endogenous retroviruses during senescence mounts an anti-viral response that reinforces senescence, *Cell Death and Disease* (Under review)

Di Giorgio E., Dalla E., Tolotto V., D'Este F., Paluvai H., Ranzino L., Brancolini C., HDAC4 links the DNA damage response to senescence by assembling with HDAC1/HDAC2 to control H2BK120 acetylation and homologous repair, *Nucleic Acid Research* (Under review)

Giorgio, E. Di, Cutano, V., Minisini, M., Tolotto, V., Dalla, E., & Brancolini, C. (2021). A regulative epigenetic circuit supervised by HDAC7 represses IGFBP6 and IGFBP7 expression to sustain mammary stemness. *Epigenomics*, epi-2020-0347. <https://doi.org/10.2217/epi-2020-0347>

Barchiesi, A., Bazzani, V., Tolotto, V., Elancheliyan, P., Wasilewski, M., Chacinska, A., & Vascotto, C. (2020). Mitochondrial Oxidative Stress Induces Rapid Intermembrane Space/Matrix Translocation of Apurinic/Apyrimidinic Endonuclease 1 Protein through TIM23 Complex. *Journal of Molecular Biology*, 432(24), 166713. <https://doi.org/10.1016/j.jmb.2020.11.012>

CONFERENCES:

15/11/2023 – 17/11/2023, Heidelberg (DE)

EMBL Conference – Cancer Genomics

Poster presentation: HDAC4 targeting in FBXW7 mutated CRC re-sensitizes cells to Oxaliplatin treatment

20/09/2023 – 23/09/2023, Paestum (IT)

ABCD 2023 - The Biennial Congress of the Italian Association of Cell Biology and Differentiation

Oral and poster presentation: HDAC4 targeting in FBXW7 mutated CRC re-sensitizes cells to Oxaliplatin treatment

20/06/2022 – 23/06/2022, Seville (ES)

EACR 2022 - Innovative Cancer Science: Translating biology to medicine

Poster presentation: Identification of an epigenetic mechanism that supervises HR mediated DSB repair