

# Europass Curriculum Vitae

## Personal information

First name / Surname **Giorgia CHINIGO'**

Nationality Italian

Date of birth 24/05/1991

## Occupational field **Academic research**

## Education and training

09/2022 **Co-tutorship PhD in "Complex Systems for Life Sciences"** (XXXIV cycle) with honors  
Thesis title: "*TRP channels functional role in prostate cancer angiogenesis and invasion*"  
UniTO (Torino, Italy) - University of Lille (Lille, France)

Level 8

12/2017 **Second level degree in Industrial Biotechnologies** (110/110 honors and mention)  
Thesis title: "*Polymethine dyes-loaded SLN: synthesis, physicochemical and functional characterization for potential applications in biomedicine*"

UniTO (Torino, Italy)

Level 7

12/2014 **First level degree in Biotechnologies** (110/110 honors)  
Thesis title: "*Biotechnological application of P450s: biopolymers*"

UniTO (Torino, Italy)

Level 6

06/2010 **High School Diploma** (100/100)  
Liceo classico "C.Cavour", (Torino, Italy)

Level 4

## Research experience

2022 - ongoing **Post-doc fellowship**

*Physiology Laboratory "Cellular and Molecular Angiogenesis" (Prof. Luca Munaron)  
Department of Life Sciences and Systems Biology, University of Turin, Italy*

- 2018 - 2021 **PhD in “Complex Systems for Life Sciences” (XXXIV cycle)**  
 Italian-French co-tutorship  
*Physiology Laboratory “Cellular and Molecular Angiogenesis” (Prof. Luca Munaron)*  
*Department of Life Sciences and Systems Biology, University of Turin, Italy*  
*Supervisor: Alessandra Fiorio Pla*
- Laboratory of “Cell Physiology” – INSERM U1003 (Dr. Natasha Prevarskaya)*  
*École Doctorale Biologie Santé, Université de Lille, France*  
*Supervisor: Dimitra Gkika*
- 2017 **Internship (8 months)**  
*Department of Molecular Biotechnology and Health Sciences, University of Turin, Italy*  
*Supervisor: Sonja Visentin*
- Laboratory of Cellular and Molecular Angiogenesis (Prof. Luca Munaron)*  
*Department of Life Sciences and Systems Biology, University of Turin, Italy*  
*Supervisor: Alessandra Fiorio Pla*
- 2016 **Company internship (300 hours)**  
*Nanovector S.r.l., via Livorno 60, 10144, Turin (Italy)*  
*Supervisor: Paolo Gasco, onwer of the company*
- 2014 **Internship (135 hours)**  
*Laboratory of Structural and Functional Biochemistry (Prof. Gianfranco Gilardi)*  
*Department of Life Sciences and Systems Biology, University of Turin, Italy*  
*Supervisor: Sheila Sadeghi*

## Teaching experience

- 2022 - 2023 Assistance to the “General Physiology” course  
 Bachelor of “Biological Sciences” University of Turin – Prof. Genova
- Subject expert for “Physiology”  
 Bachelor of “Nursing” University of Turin – Prof. Rastaldo
- Subject expert for “Physiology”  
 Bachelor of “SUISM” University of Turin – Prof. Munaron
- March 24<sup>th</sup> – 26<sup>th</sup> Teaching course on “Nanodelivery systems and gene therapy” (4h)  
 “Campus of Biology and Biotechnology” - Scuola di Formazione Scientifica Luigi Lagrange (Turin)
- 2021 - ongoing Assistance to the “Physiology” course  
 Bachelor of “Nursing” University of Turin – Prof. Rastaldo
- 2021 - ongoing Assistance to the “Cellular and Molecular Biophysics” course: theoretical lectures (4h on fluorescence and its applications in Live cell imaging techniques) + practical laboratory exercises  
 Master's Degree in “Industrial Biotechnology”, University of Turin – Prof. Fiorio Pla
- 2018 - today Supervisor of 3 Master's degree thesis in "Industrial Biotechnologies", 1 Master's degree thesis in “Cellular and Molecular Biology”, 3 bachelor students and 1 Erasmus incoming student.  
 Official co-tutor of the previous three Master's degree thesis.  
 Laboratory of “Cellular and Molecular Angiogenesis” of the University of Turin - Prof. Luca Munaron

## Supplementary teaching activities

2018 - today

Supervisor of:

3 Master's degree theses in "*Industrial Biotechnologies*"

1 Master's degree thesis in "*Cellular and Molecular Biology*"

3 bachelor students in "*Biological Sciences*"

1 Erasmus incoming student from Russia

All these thesis projects were performed at the Physiology Laboratory "*Cellular and Molecular Angiogenesis*" of the University of Turin, headed by Prof. Luca Munaron.

Official co-tutor of four Master's degree theses:

- Vasina Maria "*The functional role of TRPM8 channel in prostatic cancer*" a.a. 2020-2021
- Demelas Cristina "*Evaluation of TRPM8-Rap1 interaction in prostate cancer cell migration*" a.a. 2019-2020
- Rosati Marina "*Sintesi e caratterizzazione di cianine pentametiche e determinazione dell'attività fotodinamica*" a.a. 2018-2019
- Ilaria Cotellessa "*Optimization of a High Throughput Screening (HTS) tool to evaluate in vitro Photodynamic activity of a squaraine dye*" a.a. 2017-2018

2009 - 2013

Private lessons in mathematics, physics and science for students of high schools

Mother tongue

**Italian**

Other languages

**English**

**French**

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
B2	C1	B2	B2	C1	
B1	B1	B1	B1	B1	

Social skills and competences

Good communication skills acquired during the years in which I have worked closely with the client as a bartender and waitress.

Organisational skills and competences

Excellent spatial-temporal organizational skills and self-management skills that have allowed me to continue my studies until graduation while always maintaining my work commitments.

Technical skills and competences

Cell cultures  
 Bacterial cultures  
 Calcium imaging  
 Fluorescence techniques  
 Time-lapse microscopy  
 Migration/adhesion/invasion assay  
 Pull-down/IP  
 Western blot  
 3D-systems

Computer skills and competences

Good command of office suite (word processor, spread sheet, presentation software) data analysis and visualization programs (Igor, Clamfit, GraphPad Prism, ImageJ, Inkscape)

Soft skills and competences	<p>Time management</p> <p>Organization and self-management</p> <p>Problem solving</p> <p>Critical thinking</p> <p>Teamwork</p> <p>Determination</p> <p>Professionalism</p>
Driving licence	B
<b>Additional information</b>	
<b>Institutional academic activities</b>	
2023 - ongoing	<u>Member of the “Italian Physiological Society” (SIF)</u>
2022-2023	<u>Member of the Department Council</u> as elected representative of the temporary members Department of Life Sciences and Systems Biology (UniTO)
	<u>Member of the “Internationalization Committee”</u> Department of Life Sciences and Systems Biology” (UniTO)
2021 - ongoing	<u>Member of the “Italian Society of Photobiology”</u>
<b>Other academic activities</b>	
2022 - ongoing	Peer reviewer for:  <i>Cells</i> (IF 7.666) <i>International Journal of Molecular Sciences</i> (IF 6.208) <i>Journal of Clinical Medicine</i> (IF 4.964) <i>Journal of Zhejiang University-SCIENCE B</i> (IF 5.552)
<b>Awards</b>	
2023	<u>“Young Researcher Award 2023”</u> Italian Society of Photobiology (SIFB), 2023 Mar 21st
2022	<u>“Best communication”</u> 25 <sup>th</sup> <i>School of Physiology and Biophysics</i> (Italian Physiological Society), 2022 May 16 <sup>th</sup> -19 <sup>th</sup> in Anacapri (Italy)
2021	<u>Second Prize “Best Oral presentation”</u> <i>European Young Physiologists’ Symposium</i> (Federation of European Physiological Societies – FEPS), 2021 Oct 12 <sup>th</sup> , Virtual Conference
<b>Scientific communications</b>	
2023	<i>Italian Physiological Society</i> (SIF); 2023 Sept 6 <sup>th</sup> -8 <sup>th</sup> in Pisa, Italy– <u>poster presentation</u>
	<i>Italian Society of Photobiology</i> (SIFB) - <i>XXXIV Annual Conference</i> ; 2023 Jun 28 <sup>th</sup> -30 <sup>th</sup> in Lecce, Italy – <u>invited speaker</u>

- 2022 *Italian Physiological Society (SIF); 2022 Sept 14<sup>th</sup>-16<sup>th</sup> in Bari (Italy) - oral communication*
- 31<sup>st</sup> Ion Channels Meeting - Association Canaux Ioniques; 2022 Sept 11<sup>th</sup>-14<sup>th</sup> in Sète (Montpellier), France – oral communication*
- 4<sup>th</sup> European Calcium Channel Conference, 2022 May 24<sup>th</sup>-28<sup>th</sup> in Alpbach (Austria) – flash talk*
- 2021 *17<sup>èmes</sup> Journées Cancéropôle Grand Sud-Ouest (GSO), 2021 Nov 17<sup>th</sup>-19<sup>th</sup> in Carcassonne, (France) – poster presentation*
- European Young Physiologists' Symposium (Federation of European Physiological Societies – FEPS), 2021 Oct 12<sup>th</sup>, Virtual Conference – oral communication*
- Italian Photochemistry Days of the Italian Photochemistry Group (GIF); 2021 Sept 23<sup>th</sup>-24<sup>th</sup>, Virtual Congress - poster presentation*
- 3<sup>rd</sup> International Cancer and Ion Channel Congress – Medipol Univ Istanbul, 2021 Sept 16<sup>th</sup>-18<sup>th</sup>, Online Congress – oral communication*
- Italian Physiological Society (SIF); 2021 Sept 8<sup>th</sup>-9<sup>th</sup>, Online Congress – oral communication*
- Italian Physiological Society (SIF) - Annual Meeting of Young Researchers in Physiology (YRP); 2021 Jul 29<sup>th</sup>-31<sup>th</sup> in Bertinoro, Italy – oral communication*
- Italian Society of Photobiology (SIFB) - XXXII Annual Conference; 2021 Jun 23<sup>th</sup>-24<sup>th</sup>, Virtual Conference – oral communication*
- 2019 *30<sup>th</sup> Ion Channels Meeting - Association Canaux Ioniques; 2019 Sept 8<sup>th</sup>-11<sup>th</sup> in Sète (Montpellier), France – poster presentation*
- Joint meeting of the Federation of European Physiological Societies and the Italian Physiological Society (FEPS-SIF); 2019 Sept 10<sup>th</sup>-13<sup>th</sup> in Bologna, Italy – poster presentation*
- Workshop « Research and Nanomedicine 2019 – IV edizione » ; 2019 Jun 18<sup>th</sup> in Pavia, Italy – oral communication*

## Publications

- 2023 Ruffinatti F.A., Scarpellino G., **Chinigo G.**, Visentin L., and Munaron L.  
THE EMERGING CONCEPT OF TRANSPORTOME: STATE OF THE ART  
*Physiology (Bethesda)*, 2023 Nov 1, 38 (6)  
10.1152/physiol.00010.2023
- Munaron L., **Chinigo G.**, Scarpellino G., and Ruffinatti F.A.  
THE FALLACY OF FUNCTIONAL NOMENCLATURE IN THE KINGDOM OF BIOLOGICAL MULTIFUNCTIONALITY: PHYSIOLOGICAL AND EVOLUTIONARY CONSIDERATIONS ON ION CHANNELS  
*Journal of Physiology*, 2023 August 28  
doi: 10.1113/JP284422

Roato I., Genova T., Duraccio D., Ruffinatti F.A., Venturini D.Z., Di Maro M., Mosca Balma A., Pedraza R., Pettilo S., **Chinigo G.**, Munaron L., Malucelli G., Faga M.G. and Mussano F.  
MECHANICAL AND BIOLOGICAL CHARACTERIZATION OF PMMA/AL<sub>2</sub>O<sub>3</sub> COMPOSITES FOR DENTAL IMPLANT ABUTMENTS  
*Polymers*, 2023 Jul 27, 15 (15), 3186  
doi: 10.3390/polym15153186

Audero M.M., Carvalho T., Ruffinatti F.A., Loeck T., Yassine M., **Chinigo G.**, Folcher A., Farfariello V., Amadori S., Vaghi C., Schwab A., Reshkin S.J., Cardone R.A., Prevarskaya N. and Fiorio Pla A.  
ACIDIC GROWTH CONDITIONS PROMOTE EPITHELIAL-TO-MESENCHYMAL TRANSITION TO SELECT MORE AGGRESSIVE PDAC CELL PHENOTYPES IN VITRO  
*Cancers*, 2023 Apr 30, 15 (9), 2572  
doi: 10.3390/cancers15092572

Perin M.\* and **Chinigo G.\***, Genova T., Mussano F. and Munaron L.  
THE IMPACT OF PLASMA MEMBRANE ION CHANNELS ON BONE REMODELING IN RESPONSE TO MECHANICAL STRESS, OXIDATIVE IMBALANCE, AND ACIDOSIS  
*Antioxidants*, 2023 Mar 10, 12 (3), 689  
doi: 10.3390/antiox12030689

Bordignon N., Köber M., **Chinigo G.**, Pontremoli C., Sansone E., Vargas-Nadal G., Moran Plata M.J., Fiorio Pla A., Barbero N., Morla-Folch J., and Ventosa N.  
QUATSOMES LOADED WITH SQUARAINE DYE AS AN EFFECTIVE PHOTO-SENSITIZER FOR PHOTODYNAMIC THERAPY  
*Pharmaceutics*, 2023 Mar 10, 15 (3), 902  
doi: 10.3390/pharmaceutics15030902

Pontremoli C.\* and **Chinigo G.\***, Galliano S., Moran Plata M.J., Dereje D.M., Sansone E., Gilardino, A., Barolo C., Fiorio Pla A., Visentin S., and Barbero N.  
PHOTOSENSITIZERS FOR PHOTODYNAMIC THERAPY: STRUCTURE-ACTIVITY ANALYSIS OF CYANINE DYES THROUGH DESIGN OF EXPERIMENTS  
*Dyes and Pigments*, 2023 Jan 01, 210, 111047  
doi: 10.1016/j.dyepig.2022.111047

2022 Genova T.\* and **Chinigo G.\***, Munaron L., Rivolo P., Luginani A., Gribaudo G., Cavagnetto D., Mandracci P., and Mussano F.  
BACTERIAL AND CELLULAR RESPONSE TO YELLOW-SHADED SURFACE MODIFICATIONS FOR DENTAL IMPLANT ABUTMENTS  
*Biomolecules*, 2022 Nov 20, 12, 1718  
doi: 10.3390/biom12111718

Visentin L., Scarpellino G., **Chinigo G.**, Munaron L., and Ruffinatti F.A.  
BioTEA: CONTAINERIZED METHODS OF ANALYSIS FOR MICROARRAY-BASED TRANSCRIPTOMICS DATA  
*Biology*, 2022 Sept 13, 11(9), 1346  
doi: 10.3390/biology11091346

Grolez G.P., **Chinigo G.**, Barras, A., Hammadi M., Noyer L., Kondraskaya K., Bulk E., Oullier T., Marionneau-Lambot S., Le Mée M., Rétif S., Lerondel S., Bongiovanni A., Genova T., Roger S., Boukkerhoub R., Schwab A., Fiorio Pla A. and Gkika D.  
TRPM8 AS AN ANTI-TUMORAL TARGET IN PROSTATE CANCER GROWTH AND METASTASIS DISSEMINATION  
*International Journal of Molecular Sciences*, 2022 Jun 15, 23(12):6672  
doi: 10.3390/ijms23126672

**Chinigo G.**, Grolez G., Audero M., Bokhobza A., Bernardini M., Cicero J., Toillon R.A., Bailleul Q., Visentin L., Ruffinatti FA, Brysbaert G., Lensink M., De-Ruyck J., Cantelmo A.R., Fiorio Pla A. and Gkika D.  
TRPM8-RAP1A INTERACTION SITES AS CRITICAL DETERMINANTS FOR ADHESION AND MIGRATION OF PROSTATE AND OTHER EPITHELIAL CANCER CELLS  
*Cancers*, 2022 Apr 30, 14(9):2261  
doi: 10.3390/cancers14092261

**Chinigo G.**, Gonzalez-Paredes A., Gilardino A., Barbero N., Barolo C., Gasco P., Fiorio Pla A., Visentin S.  
POLYMETHINE DYES-LOADED SOLID LIPID NANOPARTICLES (SLN) AS PROMISING PHOTSENSITIZERS FOR BIOMEDICAL APPLICATIONS  
*Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, 2022 Apr, 271: 120909  
doi: 10.1016/j.saa.2022.120909

Petrillo S., Genova T., **Chinigo G.**, Roato I., Scarpellino G., Kopecka J., Altruda F., Tolosano E., Riganti C., Mussano F., Munaron L.  
ENDOTHELIAL CELLS PROMOTE OSTEOGENESIS BY ESTABLISHING A FUNCTIONAL AND METABOLIC COUPLING WITH HUMAN MESENCHYMAL STEM CELLS  
*Frontiers in Physiology*, 2022 Jan 11, 12: 813547  
doi: 10.3389/fphys.2021.813547

2021 Roato I., **Chinigo G.**, Genova T., Munaron L. and Mussano F.  
ORAL CAVITY AS A SOURCE OF MESENCHYMAL STEM CELLS USEFUL FOR REGENERATIVE MEDICINE IN DENTISTRY  
*Biomedicines*, 2021 Aug 25, 9(9):1085  
doi: 10.3390/biomedicines9091085

Mannino G., **Chinigo G.**, Serio G., Genova T., Gentile C., Munaron L. and Berteza C.M.  
PROANTHOCYANIDINS AND WHERE TO FIND THEM: A META-ANALYTIC APPROACH TO INVESTIGATE THEIR CHEMISTRY, BIOSYNTHESIS, DISTRIBUTION AND EFFECT ON HUMAN HEALTH  
*Antioxidants*, 2021 Jul 30, 10(8):1229  
doi: 10.3390/antiox10081229

Gianfreda F., Raffone C., Antonacci D., Mussano F., Genova T., **Chinigo G.**, Canullo L. and Bollero P.  
EARLY BIOLOGICAL RESPONSE OF AN ULTRA-HYDROPHILIC IMPLANT SURFACE ACTIVATED BY SALTS AND DRY TECHNOLOGY: AN IN-VITRO STUDY  
*Applied Sciences*, 2021 Jun 30, 11(13):6120  
doi: 10.3390/app11136120

**Chinigo G.**, Castel H., Chever O., Gkika D.  
TRP CHANNELS IN BRAIN TUMORS  
*Frontiers in Cell and Developmental Biology*, 2021 Apr 13; 9:617801  
doi:10.3389/fcell.2021.617801

Mannino G., Iovino P., Lauria A., Genova T., Asteggiano A., Notarbartolo M., Porcu A., Serio G., **Chinigo G.**, Occhipinti A., Capuzzo A., Medana C., Munaron L., Gentile C.  
BIOACTIVE TRITERPENES OF PROTIUM HEPTAPHYLLUM GUM RESIN EXTRACT DISPLAY CHOLESTEROL-LOWERING POTENTIAL  
*International Journal of Molecular Sciences*, 2021 Mar 6; 22(5):2664  
doi: 10.3390/ijms22052664

2020 **Chinigo G.**, Fiorio Pla A., Gkika D.  
TRP CHANNELS AND SMALL GTPases INTERPLAY IN THE MAIN HALLMARKS OF METASTATIC CANCER  
*Frontiers in Pharmacology*, 2020 Sept 29 ; 11:581455  
doi : 10.3389/fphar.2020.581455

2019 | Bernardini M., Brossa A., **Chinigò G.**, Grolez G., Trimaglio G., Allart L., Hulot A., Marot G., Genova T., Joshi A., Mattot V., Fromont G., Munaron L., Bussolati B., Prevarskaya N., Fiorio Pla A. And Gkika D.  
TRANSIENT RECEPTOR POTENTIAL CHANNEL EXPRESSION SIGNATURES IN TUMOR-DERIVED  
ENDOTHELIAL CELLS: FUNCTIONAL ROLES IN PROSTATE CANCER ANGIOGENESIS  
*Cancers*, 2019 Jul 9; 7(11):956  
doi : 10.3390/cancers11070956

\* equal contribution

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The information contained in this document is provided pursuant to and for the purposes of artt. 46 e 47 of DPR 445/2000;

In compliance with the Italian legislative Decree n° 196 dated 30/06/2003 and EU regulation 2016/679, I hereby authorize you to use and process my personal details contained in this document.

Date: 10<sup>th</sup> October 2023

