

GIOVANNI INZALACO

MOLECULAR BIOLOGIST

ID 0000-0002-1663-1857

Personal Information

- Italy
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- European Driving License, types "B"

Work Experiences

2020 Nov – Present	PhD Course in Genetics, Oncology and Clinical Medicine (GenOMeC) at University of Siena, Department of Medical Biotechnology. Siena (SI).
2020 Oct	Scholarship by First Health Pharmaceuticals B.V., Siena, (SI).
2019 Oct – 2020 Sept	Scholarship at Institute of Clinical Physiology, Italian National Research Council, Siena, (SI).
2019 Jun – Sept	Intern at Institute of Clinical Physiology, Italian National Research Council, Siena, (SI).
2017 Aug – 2018 Mar	Intern as student at ISVEA s.r.l. Poggibonsi (SI)
2015 Jun – Sept	Intern as student at Università degli Studi di Siena, (SI).
2011 Dec – 2012 Dec	VFP1 Corporal at 6 th Alpini Regiment Bruneck (BZ), Ministry of Defence, Italian Army.

Education

2020 – Present	PhD Course in Genetics, Oncology and Clinical Medicine (GenOMeC) at University of Siena, Department of Medical Biotechnology, Siena.
<i>Prevision graduation date: 20/03/2024</i>	Tutor: Dr. Mario Chiariello. Supervisor: Dr. Laura Poliseno
2018 Jul 7 th	Licensed as professional biologist , University of Siena
2015 – 2018	Master's degree Molecular and Cell Biology at University of Siena, Department of life sciences, LM-6 – 2 nd level degree in Biology GPA: 110/110
<i>Graduation date: 10/04/2018</i>	Thesis title: Characterization and quantitation of water-soluble vitamins in wine by liquid chromatography-high resolution and tandem mass spectrometry. Thesis supervisor: Borghini Francesca, Giorgi Gianluca
2015	Certificate Integrated skills in English (ISE-I) , at Trinity College London, (License 500/1936/3)
2011 – 2015	Bachelor's degree Biological Science at University of Siena, Department of life sciences, L-13 – 1 st level degree in Biology GPA: 93/110
<i>Graduation date: 23/10/2015</i>	Thesis title: Molecular fingerprinting and characterization of polar analytes in lager beers by advanced mass spectrometry. Thesis supervisor: Giorgi Gianluca

Languages

- **Italian:** Native
- **English:** Level B2 (writing and speaking)

Courses

2023 Oct. 31 st	Corso Formazione "La norma ISO 9001:2015: Sistema Gestione Qualità del CBS" e "Aspetti legislativi e aspetti pratici nella gestione dell'animale da laboratorio" - Centro di Biomedicina Sperimentale – CNR, Pisa
2020 Dec 30 th	SPERIMENTAZIONE ANIMALE - CORSO BASE: DAL CONCETTO DELLE 3R ALLA NORMATIVA VIGENTE (FAD) - Edizione Unica, Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna.
2018 Nov 8-9 th	4th MS NATMED School , Aboca S.P.A. (Pistrino) - Italian Chemical Society, Division of Mass Spectrometry.
2017 Oct 18-20 th	3rd MS BioPharma School , GlaxoSmithKline Vaccines (Siena) - Italian Chemical Society, Division of Mass Spectrometry.
2015 Apr 28-29 th	Training Course "Health and Safety in the Workplace: High Risk" , University of Siena.

Consapevole che, ai sensi dell'art.76 del DPR 445/2000, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono punite ai sensi del Codice penale e delle leggi speciali vigenti in materia, dichiara sotto la propria responsabilità: che quanto dichiarato nel seguente curriculum vitae et studiorum comprensivo delle informazioni sulla produzione scientifica corrisponde a verità.

Data: 01/11/2023

Firma: _____

Skills

- **Biochemistry:** Tissue/cells protein extraction; Cytoplasmic and nuclear protein fractions extraction; Protein Immuno-Precipitation (IP) and Co-IP; SDS-PAGE and Western Blot; Helicase activity assays; High Resolution Mass Spectrometry; Solid Phase Extraction.
- **Molecular Biology:** Tissue/cells nucleic acid extraction; Quantitative RT-PCR.
- **Cell Culture:** Culture expansion and manipulation of transformed and primary cell lines (especially breast, lung, and liver derived cell lines); Transient and stable transfection of DNA and shRNA plasmids, RNA interference.
- **Cell-based Assays:** Confocal microscopy: lipid droplets, lipid uptake, autophagic flux and colocalization analysis; Luciferase assay; Cell viability assays: live/dead fluorescent assay, cell count, MTS/MTT; Cytotoxicity screens for drugs and small molecules; FACS flow cytometry; ELISA; insulin quantification.
- **Animal Model:** Subcutaneous Xenograft monitoring; glioblastoma mouse model monitoring; *in vivo* live imaging & tracking of fluorescent and luciferase-expressing cells (IVIS).
- **Software and Informatics:** Apple Mac OS; Microsoft Windows; Microsoft Office; Adobe Photoshop; Adobe Illustrator.
 - **Data analysis software:**
 - *Immunofluorescence analysis:* LasX, Velocity Software.
 - *Western Blot and gels acquisition analysis:* ImageJ, Fiji.
 - *Statistical Analysis:* GraphPad Prism.
 - *FACS analysis:* FlowJo.
- **Other:** Web design; Digital Drawing.

Articles and review

Co-Expression of Podoplanin and CD44 in Proliferative Vitreoretinopathy Epiretinal Membranes.

Bonente, D.; Bianchi, L.; De Salvo, R.; Nicoletti, C.; De Benedetto, E.; Bacci, T.; Bini, L.; **Inzalaco, G.**; Franci, L.; Chiariello, M.; Tosi, G.M.; Bertelli, E.; Barone, V. *Int. J. Mol. Sci.* **2023**, *24*. DOI: 10.3390/ijms24119728

Loco-regional treatment with temozolomide-loaded thermogels prevents glioblastoma recurrences in orthotopic human xenograft models.

Gherardini, L.*; Vetri Buratti, V.*; Maturi, M.; **Inzalaco, G.**; Locatelli, E.; Sambri, L.; Gargiulo, S.; Barone, V.; Bonente, D.; Bertelli, E.; Tortorella, S.; Franci, L.; Fioravanti, A.; Comes Franchini, M. and Chiariello, M. *Scientific Reports* **2023**, *13*. DOI: 10.1038/s41598-023-31811-5

MAPK15 controls mitochondrial fitness and contributes to prevent cellular senescence.

Franci L.; **Inzalaco, G.**; Chiariello, M. *Autophagy Reports* **2022**, *1*. DOI: 10.1080/27694127.2022.2113016

Biocompatible pectin-based hybrid hydrogels for tissue engineering applications.

Tortorella S.; **Inzalaco, G.**; Dapporto F.; Maturi M.; Sambri L.; Vetri Buratti V.; Chiariello, M.; Comes Franchini M. and Locatelli E. *New Journal of Chemistry* **2021**. DOI: 10.1039/D1NJ04142H

The FHP01 DDX3X helicase inhibitor exerts potent anti-tumor activity *in vivo* in breast cancer pre-clinical models.

Gherardini, L.*; **Inzalaco, G.***; Imperatore, F.; D'Aurizio, R.; Franci, L.; Miragliotta, V.; Boccuto, A.; Calandro, P.; Andreini, M.; Tarditi, A.; Chiariello, M. *Cancers* **2021**, *13*. DOI: 10.3390/cancers13194830

*These authors contributed equally to this paper.

Poster and Conferences

Paestum. Poster at ABCD 2023 • The Biennial Congress of the Italian Association of Cell Biology and Differentiation.

Poster Session 2 - 22 September 2023

Title: MAPK15 supports lung cells to manage oxidative stress and cellular senescence by multiple and cooperating mechanisms

Authors: Franci, L.; Vallini, G.; Bertolino, F.M.; **Inzalaco, G.**; Chiariello, M.

Napoli. Poster 61st Annual meeting of the Italian Cancer Society – *Precision Oncology: from myth to reality - 2019 Nov*

Title: A new class of translation inhibitors shows anticancer activity in preclinical studies.

Authors: Gherardini L., Andreini M., Taranta M., Dapporto F., **Inzalaco G.**, Calandro P., Tarditi A., Chiariello M.

Florence. Poster presentation at XXII International Mass Spectrometry Conference IMSC 2018, “Food integrity, authenticity & traceability” Session.

Title: Characterization and quantitation of water-soluble vitamins in wine by liquid chromatography-high resolution and tandem mass spectrometry.

Authors: Inzalaco G., Borghini F., Cavagliani A., Giorgi G. ISBN 9788890738852

Furthermore, I designed the logo for the conference.