

**PERSONAL INFORMATION** Eros Azzalini

Sex M | Date of birth 26/01/1987 | Nationality Italian

ORCID: <https://orcid.org/0000-0002-5193-268X>; Scopus: 57211137440**WORK EXPERIENCE**

- 01/3/2024 – PRESENT** Research grant (assegno di ricerca) "Nuove proposte diagnostiche e terapeutiche per il cancro dell'ovaio"  
University of Trieste, DSM, Laboratory of Molecular biology, TS, Italy
- 01/07/2022 – 29/02/2024** Research grant (assegno di ricerca) "Caratterizzazione molecolare dei melanomi cutanei" within the project: IToBoS – Intelligent Total Body Scanner for early detection of melanoma"  
University of Trieste, DSM, Laboratory of Molecular biology, TS, Italy
- 28/11/2022 – 02/12/2022** Visiting Scientist – Systems Biology of Drug Resistance research group – Prof. Sampsa Hautaniemi.  
University of Helsinki, Faculty of Medicine, Helsinki, Finland
- 01/12/2020 – 29/06/2022** Fellowship within the project: "CATHENA – Cancer THERapy by NANomedicine"  
Centro di Riferimento Oncologico (C.R.O), Surgical Pathology Unit, Aviano, PN, Italy
- 01/11/2019 – 01/12/2020** Research grant (assegno di ricerca) "Condizioni pre-analitiche nella diagnostica in vitro: dalla teoria alla pratica" within the project: "SPIDIA for Personalized medicine"  
University of Trieste, DSM, Laboratory of Molecular biology, TS, Italy
- 01/10/2016 – 01/10/2019** PhD Fellowship within the project: "HERCULES - Comprehensive characterization and effective combinatorial targeting of high-grade serous ovarian cancer via single cell analysis"  
University of Trieste, DSM, Laboratory of Molecular biology, TS, Italy

**EDUCATION AND TRAINING**

- 25/10/2022 - present** Postgraduate School in Microbiology and Virology  
University of Trieste, TS, Italy
- 01/10/2016 - 06/03/2020** PhD in Nanotechnology  
University of Trieste, TS, Italy
- Thesis: "Comprehensive characterization and effective combinatorial targeting of high-grade serous ovarian cancer by transcriptomics and biomechanical features". Supervisor: Prof. Serena Bonin

- 29/06/2015 **Professional licence in Biology**  
University of Parma, PR, Italy
- 01/10/2012 - 30/10/2014 **MSc in Biology and biomedical applications (LM-6) 110/110 with honor** 7  
University of Parma, PR, Italy  
  
Thesis: "Molecular characterization of a series of neuroendocrine lung tumors by array comparative hybridization (a-CGH)". Supervisor: Prof. Enrico Maria Silini
- 01/10/2010 - 19/07/2012 **BSc in Biology 100/110** 6  
University of Trieste, TS, Italy  
  
Thesis: "Molecular characterization of carbapenem resistant *A. Baumannii* strains isolated from clinical samples". Supervisor: Prof. Lucilla Dolzani
- 01/10/2006 - 30/05/2010 **BSc in Natural Sciences 103/110** 6  
University of Trieste, TS, Italy  
  
Thesis: "A contribution to the project Nesting birds of FVG". Supervisor: Silvia Battistella.

**PERSONAL SKILLS**

**Mother tongue(s)** Italian

**Other language(s)**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2
<b>Cambridge FCE. B2.</b>					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
Common European Framework of Reference for Languages

**Communication skills** Good communication skills gained during my academic career, conference meetings and poster presentations.

**Job-related skills** *Molecular biology:* Nucleic acids extraction techniques and quality control. End point PCR, qRT-PCR, droplet digital PCR (ddPCR). Nanostring nCounter® expression profiling and data analysis (Training at Candiolo Cancer Institute, TO, Italy, 10/12/2018 – 14/12/2018). In situ RNA expression analysis (RNAScope®) and immunohistochemistry (IHC). Automated DNA sequencing for LOH and MSI analysis on FFPE tissues. Array comparative hybridization (Array-CGH)

*Cellular biology:* Standard cell culture techniques; cell viability assays (Trypan blue, Prestoblu) and invasion assays; drug screening on cell cultured cells.

*Pre-analytics:* Fixed and paraffin embedded tissues processing skills (Tissue microarray construction, tissue fixation, inclusion, cutting).

*Microscopy:* Light microscopy (principles of diagnostic in high grade serous ovarian cancer. Review with expert pathologists of more than 1000 HGSO tissue slides. Digital Image analysis (QuPath, ImageJ) Atomic force microscopy (AFM) - Characterization of biomechanical proprieties of FFPE cancer tissues.

Experience in clinical data collection and medical records/database research for retrospective and prospective studies

Reviewer for the Journal of Ovarian Research and Scientific Reports

*Microbiology:* General principles of clinical and diagnostic microbiology. Bacterial culture techniques. Isolation, identification, molecular characterization and antibiogram of pathogenic bacteria

**Educational activities**

Thesis co-supervisor in Biomedical laboratory techniques and Biotechnology degree programs:  
 - "Resistenza ai platino derivati e inibitori pan-AKT nel trattamento dei cancri epiteliali dell'ovaio". Master degree in Medical and diagnostic biotechnology; Academic year 2023/2024  
 - "Caratterizzazione ed inibizione di AKT in linee cellulari di carcinoma ovarico". Master degree in Medical and diagnostic biotechnology; Academic year 2022/2023  
 - "Indagine sull'effetto di inibitori Pan-AKT su linee cellulari di melanoma umano". Degree in Biomedical laboratory techniques; Academic year 2022/2023

**Digital skills**

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient	Proficient	Proficient	Proficient	Proficient

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

Good command of Office suite (word processor, spread sheet, presentation software)  
 Basic command of R software for statistical analysis  
 Good command on GraphPad Prism for medical statistics  
 Basic command of AFM software tools: Igor Pro, AtomicJ.  
 QuPath and ImageJ software for quantitative pathology and bioimage analysis.

**Driving licence**

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**ADDITIONAL INFORMATION**

**Presentations/poster abstracts**

Poster abstract: "AKT3 as biomarker of platinum response in ovarian cancer", EACR 2025 – Lisbon, Portugal, 16/06/2025 – 19/06/2025.  
 Poster abstract: "Detection of beta and gamma HPV in a series of in situ squamous cell carcinomas", 51° Congresso Nazionale AMCLI, Rimini, IT, 08/03/2024 – 11/03/2024.  
 Poster abstract: "Exosome microRNA as liquid biopsy biomarkers for skin melanomas", INRAE - Microgenomics 2023, Florence, IT, 29/06/2023 – 30/06/2023  
 Poster abstract: "A large cross-sectional Italian study assessing *Ureaplasma* spp. and *Mycoplasma* spp. urogenital infections among STI patients and Infertility couples", 50° Congresso Nazionale AMCLI, Rimini, IT, 24/03/2023 – 27/03/2023.  
 Poster abstract: "Exosome microRNA as liquid biopsy biomarkers for skin melanomas", EACR 2023 - Turin, IT, 12/06/2023 – 15/06/2023  
 Poster abstract: "2C as a possible treatment for ovarian cancer: a nanomechanical characterization", EACR 2023 - Turin, IT, 12/06/2023 – 15/06/2023

Poster abstract: "Nanomechanics to study High Grade Serous Ovarian Cancers". EACR 2021 Virtual Congress, 09-06/2021 – 12/06/2021

Poster abstract: "Investigation on histological patterns and intra-tumor heterogeneity in High Grade Serous Ovarian Cancers: Can they help in prognostication?". EACR 2021 Virtual Congress, 09-06/2021 – 12/06/2021

Poster abstract: "Bouin fixed samples are amenable for mRNA analyses. A cross-platform comparison on a series of high grade serous ovarian cancer". Advances and future of high grade serous ovarian cancer research Symposium, Helsinki, FI, 08/05/2019.

#### Conferences

51° Congresso Nazionale AMCLI. Rimini, IT, 08/03/2024 – 11/03/2024

INRAE – Microgenomics 2023, Florence, IT, 29/06/2023 – 30/06/2023

50° Congresso Nazionale AMCLI. Rimini, IT, 12/06/2023 – 15/06/2023

NCRI Cancer Conference, Glasgow, UK, 04/11/2018 – 06/11/2018.

Advances and future of High grade serous ovarian cancer research Symposium, Helsinki, Finland, 08/05/2019.

#### Seminars

Webinars Società Italiana di Microbiologia (SIM) – "Advanced school of Microbiology and Host-Microbiome interactions". 2023 - 2025

The transparent editorial process, data reproducibility and research integrity at EMBO press, R. Buccione, Trieste, 31/01/2017.

Genetica, epigenetica, banche dati e medicina di precisione, P. Gasparini, Trieste, 25/09/2017.

Transcriptional control in health and disease, S. Campaner, Trieste, 20/11/2017.

Big data e Citizen Science: progressi, opportunità, problemi, S. Martellos, Trieste, 28/02/2017.

Understanding and tuning Catalytic materials using nanocrystal precursors. M. Cargnello, Trieste, 18/07/2019.

La tutela della proprietà intellettuale: strumenti e strategie. G. C. Piani, Trieste, 25/02/2017.

Medical statistics, G. Barbati, DSM - University of Trieste, Trieste, 2018.

Il melanoma cutaneo: luci e ombre nella diagnosi e trasferimento della ricerca, S. Bonin, Trieste 27/05/2019.

Antimicrobial stewardship: quali sfide in pediatria? Trieste, 27/10/2023

#### Courses

NGS practical course – Data analysis, library construction and quality control. TATAA Biocenter – Gothenburg, 30/09/2019 – 04/10/2019.

Nanomedicine, PhD in Nanotechnology, Prof. T. Da Ros

Biocompatible drug delivery systems, PhD in Nanotechnology, Prof. F. Rizzolio

Microscopies for nanotechnology, PhD in Nanotechnology

Nanomaterials for advance analytical and sensitive purposes, PhD in Nanotechnology, Prof. M. L. Moretto

Nanotechnology for spectroscopy, PhD in Nanotechnology, Prof. A. Bonifacio

Toxicity of nanomaterials, PhD in Nanotechnology, Prof. F. L. Fillon

- Publications**
- Di Stefano B, Bertoglio B, Melchionda F, Concato M, Sorçaburu Ciglieri S, Bosetti A, Grignani P, Azzalini E, Addoum Y, Vetrini R, Gentile F, Introna F, Bonin S, Turchi C, Previderè C, Fattorini P. *Molecular Identification of the Italian Soldiers Found in the Second World War Mass Grave of Ossero*. *Genes (Basel)*. 2025 Mar 11;16(3):326. doi: 10.3390/genes16030326. PMID: 40149477; PMCID: PMC11942473.
- Di Meo N, Bazzacco G, Fadel M, Caposiena DR, Agozzino M, Conforti C, Azzalini E, Bonin S, Zalaudek I. *Tanorexia criteria for better understanding sun overexposure in one of the Italian leading towns for melanoma incidence*. *Ital J Dermatol Venerol*. 2024 Nov 19. doi: 10.23736/S2784-8671.24.08015-0. Epub ahead of print. PMID: 39560341.
- Luppi S, Aldegheri L, Azzalini E, Pacetti E, Barucca Sebastiani G, Fabiani C, Robino A, Comar M. *Unravelling the Role of Gut and Oral Microbiota in the Pediatric Population with Type 1 Diabetes Mellitus*. *Int J Mol Sci*. 2024 Oct 2;25(19):10611. doi: 10.3390/ijms251910611. PMID: 39408940; PMCID: PMC11477131.
- Ariotta V, Azzalini E, Canzonieri V, Hautaniemi S, Bonin S. *Comparative Analysis of Gene Expression Analysis Methods for RNA in Situ Hybridization Images*. *J Mol Diagn*. 2024 Oct;26(10):931-942. doi: 10.1016/j.jmoldx.2024.06.010. Epub 2024 Jul 26. PMID: 39068989; PMCID: PMC11702285.
- Azzalini E, Di Stefano B, Canzonieri V, Venesio T, Miglio U, Marchiò C, Sapino A, Previderè C, Fattorini P, Bonin S. *Quantifying mRNA in Highly Degraded Fixed Tissues by Nanostring Technology: A Comparative Study*. *Methods Protoc*. 2024 May 7;7(3):40. doi: 10.3390/mps7030040. PMID: 38804334; PMCID: PMC11130824.
- Maddaloni M, Farra R, Dapas B, Felluga F, Benedetti F, Berti F, Drioli S, Vidali M, Cemazar M, Kamensek U, Brancolini C, Murano E, Maremonti F, Grassi M, Biasin A, Rizzolio F, Cavarzerani E, Scaggiante B, Bulla R, Balduit A, Ricci G, Zito G, Romano F, Bonin S, Azzalini E, Baj G, Tierno D, Grassi G. *In Vitro and In Vivo Evaluation of the Effects of Drug 2c and Derivatives on Ovarian Cancer Cells*. *Pharmaceutics*. 2024 May 15;16(5):664. doi: 10.3390/pharmaceutics16050664. PMID: 38794326; PMCID: PMC11125437.
- Azzalini E, Bonin S. *Molecular diagnostics of prostate cancer: impact of molecular tests*. *Asian J Androl*. 2024 Nov 1;26(6):562-566. doi: 10.4103/aja202411. Epub 2024 May 10. PMID: 38738960; PMCID: PMC11614165.
- Conforti C, Retrosi C, Agozzino M, Dianzani C, Nardon E, Oliveri A, Azzalini E, Guida S, Pellacani G, Di Lella G, Rongioletti F, Zalaudek I, Bonin S. *Unraveling the Complex Nexus of Human Papillomavirus (HPV) in Extragenital Keratinocyte Skin Tumors: A Comprehensive Analysis of Bowen's Disease and In Situ Squamous-Cell Carcinoma*. *J Clin Med*. 2024 Feb 15;13(4):1091. doi: 10.3390/jcm13041091. PMID: 38398404; PMCID: PMC10889444.
- Azzalini E, Stanta G, Canzonieri V, Bonin S. *Overview of Tumor Heterogeneity in High-Grade Serous Ovarian Cancers*. *Int J Mol Sci*. 2023 Oct 11;24(20):15077. doi: 10.3390/ijms242015077. PMID: 37894756; PMCID: PMC10606847.
- Bonin S, D'Errico S, Medeot C, Moreschi C, Ciglieri SS, Peruch M, Concato M, Azzalini E, Previderè C, Fattorini P. *Evaluation of a Set of miRNAs in 26 Cases of Fatal Traumatic Brain Injuries*. *Int J Mol Sci*. 2023 Jun 29;24(13):10836. doi: 10.3390/ijms241310836. PMID: 37446013; PMCID: PMC10341445.
- De Martino E, Gandin I, Azzalini E, Massone C, Pizzichetta MA, Giulioni E, Javor S, Pinzani C, Conforti C, Zalaudek I, Bonin S. *A group of three miRNAs can act as candidate circulating biomarkers in liquid biopsies from melanoma patients*. *Front Med (Lausanne)*. 2023 Jun 14;10:1180799. doi: 10.3389/fmed.2023.1180799. PMID: 37387784; PMCID: PMC10301821.
- Tierno D, Azzalini E, Farra R, Drioli S, Felluga F, Lazzarino M, Grassi G, Dapas B, Bonin S. *Nanomechanical Characterization of Ovarian Cancer Cell Lines as a Marker of Response to 2c Treatment*. *Int J Mol Sci*. 2023 Apr 13;24(8):7230. doi: 10.3390/ijms24087230. PMID: 37108391; PMCID: PMC10139025.
- Aleksova A, Fluca AL, Gagno G, Pierri A, Padoan L, Derin A, Moretti R, Noveska EA, Azzalini E, D'Errico S, Beltrami AP, Zumia A, Ippolito G, Sinagra G, Janjusevic M. *Long-term effect of SARS-CoV-2 infection on cardiovascular outcomes and all-cause mortality*. *Life Sci*. 2022 Dec 1;310:121018. doi: 10.1016/j.lfs.2022.121018. Epub 2022 Sep 29. PMID: 36183780; PMCID: PMC9561478.
- Azzalini E, Tierno D, Bartoletti M, Barbazza R, Giorda G, Puglisi F, Cecere SC, Losito NS, Russo D, Stanta G, Canzonieri V, Bonin S. *AKT Isoforms Interplay in High-Grade Serous Ovarian Cancer Prognosis and Characterization*. *Cancers (Basel)*. 2022 Jan 8;14(2):304. doi:10.3390/cancers14020304. PMID: 35053466; PMCID: PMC8773580

**Azzalini E, Barbazza R, Stanta G, Giorda G, Bortot L, Bartoletti M, Puglisi F, Canzonieri V, Bonin S. Histological patterns and intra-tumor heterogeneity as prognostication tools in high grade serous ovarian cancers. Gynecol Oncol. 2021 Dec;163(3):498-505. doi: 10.1016/j.ygyno.2021.09.012. Epub 2021 Oct 1. PMID:34602289.**

**Azzalini E, Abdurakhmanova N, Parisse P, Bartoletti M, Canzonieri V, Stanta G, Casalis L, Bonin S. Cell-stiffness and morphological architectural patterns in clinical samples of high grade serous ovarian cancers. Nanomedicine. 2021 Oct;37:102452. doi: 10.1016/j.nano.2021.102452. Epub 2021 Jul 24. PMID: 34311116.**

**Fattorini P, Forzato C, Tierno D, De Martino E, Azzalini E, Canzonieri V, Stanta G, Bonin S. A Novel HPLC-Based Method to Investigate on RNA after Fixation. Int J Mol Sci. 2020 Oct 13;21(20):7540. doi:10.3390/ijms21207540.PMID: 33066070; PMCID: PMC7588918.**

**Azzalini E, De Martino E, Fattorini P, Canzonieri V, Stanta G, Bonin S. Reliability of miRNA Analysis from Fixed and Paraffin-Embedded Tissues. Int J Mol Sci. 2019 Sep 27;20(19):4819. doi: 10.3390/ijms20194819. PMID: 31569791;PMCID: PMC6801416.**

**Bibliometric indexes**

Scopus: n° publications 18, h-index 6, n° citations 93

**Personal data**

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01/09/2025

Date

Signature