


## PERSONAL INFORMATION

**Federico Zacchini**

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 [federico.zacchini@aosp.bo.it](mailto:federico.zacchini@aosp.bo.it)

Gender Male | Date of birth 16/04/1986 | Nationality: Italian

POSITION HELD  
AND  
QUALIFICATION

Health Researcher

Doctorate in Specialist Medical Sciences Bachelor's

Degree in Molecular and Cellular Biology

PROFESSIONAL  
EXPERIENCE

August 2024 – Today

**Health Researcher**

University Hospital of Bologna (IRCCS) – Departmental Program of Laboratory Medicine

[Health Researcher](#)

February 2020 – April 2022

**Assistance activity as a university research fellow**

University Hospital of Bologna (IRCCS) – Departmental Program of Laboratory Medicine

[Biologist](#)

May 2022 – August 2024

**Umberto Veronesi Research Fellowship**

Department of Specialized, Diagnostic and Experimental Medicine (DIMES) and Department of Medical and Surgical Sciences (DIMEC)

Sant'Orsola University Hospital, Bologna (Italy)

Title of the research project: "Role and impact of snoRNA H/ACA box alterations in breast cancer".

Research fellowship in a Clinical Pathology laboratory

[Scientific research](#)

May 2016 – April 2022

**Research grant**

Department of Specialized, Diagnostic and Experimental Medicine (DIMES)

Sant'Orsola University Hospital, Bologna (Italy)

Name of the research project: "Role and impact of snoRNA H/ACA box alterations in breast cancer".

Research grant in a Clinical Pathology laboratory

[Scientific research](#)

School Year 2024 – 2025  
School Year 2023 – 2024

**University Tutor**

Alma Mater Studiorum University of Bologna

School Year 2020 – 2021  
School Year 2019 – 2020

Tutoring activities for students PATOLOGIA CLINICA I (C.I.) [cod. 39289] - PATOLOGIA CLINICA 1 [cod. 39290] Corso di Studio in TECNICHE DI LABORATORIO BIOMEDICO (ABILITANTE ALLA PROFESSIONE SANITARIA DI TECNICO DI LABORATORIO BIOMEDICO) of 70 hours for each school year, based in Bologna; activated by the Department of Specialized, Diagnostic and Experimental Medicine (DIMES) and Department of Medical and Surgical Sciences (DIMEC)

#### Student tutors

June 2012 – December 2012

#### Scholarship

Institute of Nephrology  
Sant'Orsola University Hospital, Bologna (Italy)

#### Scholarship in a Molecular Biology Laboratory

#### Scientific research

February 2012 – June 2012

#### Chemical analyst apprentice at the microbiology laboratory

Neutron Spa, Modena (Italy)

Microbiological analysis for the safety and quality of the agri-food chain

#### Microbiologist Analyst

## EDUCATION

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- 2012 - 2016 **Doctorate in Specialist Medical Sciences**  
**Alma Mater Studiorum University of Bologna**
  
- 2009 - 2011 **Master's Degree in Molecular and Cellular Biology**  
**Alma Mater Studiorum University of Bologna**
  
- 2005 - 2009 **Bachelor's degree in Biological Sciences**  
**Alma Mater Studiorum University of Bologna**
  
- 2000 - 2005 **Scientific and technological high school diploma**  
**Bassi-Burgatti Scientific-Technological High School in Cento (FE)**

PERSONAL SKILLS

Mother-tongue language

**Italian**

Other languages

**English**

| UNDERSTANDING |         | SPOKEN      |      | WRITTEN |
|---------------|---------|-------------|------|---------|
| Listening     | Reading | Interaction | Oral |         |
| C1            | C1      | C1          | C1   | C1      |

Levels: A1/A2: Basic User - B1/B2: Intermediate User - C1/C2: Advanced User  
[Common European Framework of Reference for Languages](#)

Communication skills

- Acquired communication skills as a result of the work of tutoring university students, as well as in the tutoring and co-supervisor activity for 8 medical biotechnology and health biology students in internship at the research laboratory where I work.
- Acquired expository skills of the work carried out thanks to frequent business meetings and conferences.

Organizational skills and Management

- Daily and independent management of the research laboratory activity.
- Daily management of the research laboratory activity of the students for which I am responsible.

Professional skills

▪ **Laboratory techniques:**

Cell cultures, RNA interference, purification of ribosomes and polysomes, Real-Time PCR, DNA sequencing, purification of exosomes, SDS-PAGE, Western blot, cloning in bacteria, primer extension, southern blot.

Digital skills

| SELF-ASSESSMENT           |                   |                   |               |                 |
|---------------------------|-------------------|-------------------|---------------|-----------------|
| Processing of Information | Communication     | Content Creation  | Security      | Troubleshooting |
| Advanced User             | Intermediate user | Intermediate user | Advanced User | Advanced User   |

Levels: Basic user - Intermediate user - Advanced user [Digital skills - Self-assessment form](#)

Replace with the name of the ICT certificates

- good knowledge of the Microsoft Office suite tools (word processor, spreadsheet, presentation software)
- good knowledge of digital image processing programs (Adobe Photoshop, Adobe Illustrator)
- good knowledge of molecular biology software programs (BLAST, Primer3, IGV) and internet databases (PubMed, Ensembl, Gene Bank).

Driver's license

Type B License – Car

Scientific Publications

Rambaldelli G, Asghar S, Venturi G, **Zacchini F**, Serra M, Giovannini C, Gramantieri L, Bernini M, Inga A, Dassi E, Montanaro L. Characterization of small nucleolar RNA retaining transcripts in human normal and cancer cells. *Noncoding RNA Res.* 2025 May 9;13:153-161. doi: 10.1016/j.ncrna.2025.05.004. PMID: 40501481;

**Zacchini F**, Barozzi C, Venturi G, Montanaro L. How snoRNAs can contribute to cancer at multiple levels. *NAR Cancer.* 2024 Feb 24; 6(1):zcae005. doi: 10.1093/narcan/zcae005. PMID: 38406265;

Gelfo V, Venturi G, **Zacchini F**, Montanaro L. Decoding Ribosome Heterogeneity: A New Horizon in Cancer Therapy. *Biomedicines.* 2024 Jan 11; 12(1):155. doi: 10.3390/biomedicines12010155. PMID: 38255260;

De Giglio A, De Biase D, Favorito V, Maloberti T, Di Federico A, **Zacchini F**, Venturi G, Parisi C, Gustavo Dall'Olio F, Ricciotti I, Gagliano A, Melotti B, Sperandi F, Altimari A, Gruppioni E, Tallini G, Gelsomino F, Montanaro L, Ardizzoni A. STK11 mutations correlate with poor prognosis for advanced NSCLC treated with first-line immunotherapy or chemo-immunotherapy according to KRAS, TP53, KEAP1, and SMARCA4 status. *Lung Cancer*. 2025 Jan;199:108058. doi: 10.1016/j.lungcan.2024.108058. Epub 2024 Dec 20. PMID: 39709652.

De Giglio A, **Zacchini F**, Venturi G, Di Federico A, Parisi C, Dall'Olio FG, Ricciotti I, Favorito V, Gagliano A, De Biase D, Maloberti T, Altimari A, Gruppioni E, Tallini G, Melotti B, Sperandi F, Gelsomino F, Montanaro L, Ardizzoni A. Early monitoring of plasma KRAS G12C with digital PCR predicts antitumor response to immunotherapy or sotorasib in advanced NSCLC: A brief report. *J Liq Biopsy*. 2024 Jun 21;6:100161. doi: 10.1016/j.jlb.2024.100161. PMID: 40027319;

Barozzi C, **Zacchini F**, Corradini A, Morara M, Serra M, De Sanctis V, Bertorelli R, Dessi E, Montanaro L, Alterations of ribosomal RNA pseudouridylation in human breast cancer. *NAR Cancer* 2023 doi: 10.1093/narcan/zcad026

**Zacchini F**, Venturi G, De Sanctis V, Bertorelli R, Ceccarelli C, Santini D, Taffurelli M, Penzo M, Trerè D, Inga A, Dassi E, Montanaro L. Human dyskerin binds to cytoplasmic H/ACA-boxcontaining transcripts affecting nuclear hormone receptor dependence. *Genome Biol*. 2022 Aug 22; 23(1):177. doi: 10.1186/s13059-022-02746-3. PMID: 35996163;

Barozzi C, **Zacchini F**, Asghar S, Montanaro L. Ribosomal RNA Pseudouridylation: Will Newly Available Methods Finally Define the Contribution of This Modification to Human Ribosome Plasticity? *Front Genet*. 2022 Jun 1;13:920987. doi: 10.3389/fgene.2022.920987. PMID: 35719370;

Venturi G, **Zacchini F**, Vaccari CL, Trerè D, Montanaro L. Primer extension coupled with fragment analysis for rapid and quantitative evaluation of 5.8S rRNA isoforms. *PLoS One*. 2021 Dec 21; 16(12):e0261476. doi: 10.1371/journal.pone.0261476. PMID: 34932578;

van den Akker GGH, **Zacchini F\***, Housmans BAC, van der Vloet L, Caron MMJ, Montanaro L, Welting TJM. Current Practice in Bicistronic IRES Reporter Use: A Systematic Review. *Int J Mol Sci*. 2021 May 14; 22(10):5193. doi: 10.3390/ijms22105193. PMID: 34068921.

**Presentations** **Zacchini F**, Venturi G, De Sanctis V, Bertorelli R, Ceccarelli C, Santini D, Taffurelli M, Penzo M, Trerè D, Inga A, Dassi E, Montanaro L. *Human dyskerin binds to cytoplasmic H/ACA-boxcontaining transcripts affecting nuclear hormone receptor dependence*. Barcelona BioMed Conference "Translation control in cancer development and microenvironment interactions" organised by the Institute for Research in Biomedicine (IRB Barcelona) on 17-19 October 2022.

Tomassoni F, **Zacchini F**, Gruarin M, Naldi M, Valente S, Pasquinelli G, Giunti M, Dondi F, La Manna G, Stefoni S. *Isolation and characterization of pig urinary exosomes for biomarker discovery*. LXVII Convegno Nazionale S.I.S.Vet (2013).

**Data personal** I authorize the processing of my personal data in the curriculum vitae pursuant to Legislative Decree 30 June 2003, n. 196 and the GDPR (EU Regulation 2016/679).

Bologna  
25/03/2026