

GEORGIA ROUNI

Biologist, Post-doc



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CURRENT POSITION

2024-today: Proteomic Facility BSRC "Al.Fleming" Vari,Greece

Research specialization in **proteomics**. Involved in a broad range of research projects involving **sample preparation, method development, and bioinformatic analysis** of complex biological samples.

- **Operation of high-impact instrumentation**, liquid chromatography (LC) and high-resolution mass spectrometry (MS) equipment
- Methodology for the characterization of **histone modifications**, supporting epigenetic and chromatin-related research
- Optimization of **human plasma preparation workflows** to enhance proteome coverage and analytical reproducibility
- Development and implementation of **single-cell proteomics workflow strategies**, enabling highly sensitive and reproducible protein profiling at the individual-cell level

RELATED PUBLICATIONS

1. Nikopaschou, M., Rouni, G., Samiotaki, M. (2026). *Methods for Isolating and Analyzing the HLA Class I Immunoepitome*. In: Stratikos, E. (eds) Antigen Processing and Presentation. Methods in Molecular Biology, vol 3007. Humana, New York, NY. https://doi.org/10.1007/978-1-0716-5092-9_6
 2. Fragkou, P., Martakos, I., Rouni, G. *et al.* Multiomics analysis of the Silkworm cocoon shell. *Sci Data* **12**, 1630 (2025). <https://doi.org/10.1038/s41597-025-06071-9>
 3. A. Fotoglou, M. Samiotaki, G. Rouni, S. Anesiadou, C. Kanaka, P.Pervanidou, N. Nicolaidis *Tear Proteomics Analysis in Children with Autism Spectrum Disorder*, manuscript 2026
- ☐ Quantitative Proteomic Profiling of Adrenal Tumors Identifies Key Drivers of Malignancy 28th European Congress of Endocrinology 2026. POSTER

EDUCATION

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|------|---|
| 2023 | Biology, Phd
<i>University of Patras/ BSRC "Al.Fleming", Athens (IKY Scholarship)</i> |
| 2016 | Molecular Medicine, Master Degree
<i>Kapodistrian University of Athens</i>
(Departments of Medical School and Biology & Nursing) |
| 2013 | Biology, Bachelor Degree
<i>University of Patras</i> |