

Member Name: Panteleimon Takis (Assist. Prof.)

Contact details (e-mail address): ptakis@uoi.gr

CURRENT POSITION

2023 – to date Assistant Professor - School of Sciences / Department of Chemistry, University of Ioannina / Laboratory of Analytical Chemistry / Greece
Honorary Research associate, Imperial College of London, Faculty of Medicine, Department of Metabolism, Digestion and Reproduction, Section of Bioanalytical Chemistry, Hammersmith Campus, IRDB Building, London, W12 0NN, UK

PREVIOUS POSITIONS

2019 - 2023 Research associate, Imperial College of London, Faculty of Medicine, Department of Metabolism, Digestion and Reproduction, Section of Bioanalytical Chemistry – National Phenome Centre, London, Hammersmith Campus, IRDB Building, London, W12 0NN, UK.

2014 - 2019 Postdoctoral Researcher, CERM (www.cerm.unifi.it) - GIOTTO Biotech S.r.l. (www.giottobiotech.com), Via Madonna del Piano 6, I 50019, Sesto Fiorentino, Firenze, Italy

2012 - 2013 Post-doctoral research training (Biophysical Chemistry Laboratory, Department of Biological Applications and Technology, University of Ioannina

EDUCATION

2007 - 2012 Ph.D. Thesis: “The Role of Solvents to the peptide formation: The study of water and dimethyl-sulfoxide molecules interactions with model compounds, amino acids and their derivatives”, Department of Biological Applications and Technology/ University of Ioannina / Ioannina / Greece

2001 - 2006 Diploma/Master’s of Science in Biology and Biotechnology / Department of Biological Applications and Technology/ University of Ioannina / Ioannina / Greece

SELECTED PUBLICATIONS

- Forlano, R; Martinez-Gili, L.; **Takis, P.G.**; et. al., (2024) ‘Disruption of gut barrier integrity and host–microbiome interactions underlie MASLD severity in patients with type-2 diabetes mellitus.’ *Gut Microbes*, 16 (1), 2304157. <https://doi.org/10.1080/19490976.2024.2304157>
- Routy, B.; Lenehan, J. G.; Miller, W. H.; et. al., (2023) ‘Fecal Microbiota Transplantation plus Anti-PD-1 Immunotherapy in Advanced Melanoma: A Phase I Trial.’ *Nature Medicine*, 29 (8), 2121–2132. <https://doi.org/10.1038/s41591-023-02453-x>.
- Stebbing, J.†, **Takis, P.G.***, et. al., (2023) ‘Comparison of phenomics and cfDNA in a large breast screening population: the Breast Screening and Monitoring Study (BSMS)’, *Oncogene*, 42, pp. 825-832. <https://doi.org/10.1038/s41388-023-02591-z> (†Co- first and *Corresponding Author)
- Takis, P.G.**** et al (2022). ‘NMRpQuant, an automated software for large scale urinary total protein quantification by one-dimensional ¹H NMR profiles.’ *Bioinformatics*, 38(15), pp. 4437-4439. <https://doi.org/10.1093/bioinformatics/btac502> (*Corresponding Author, **Collaboration with MAYO clinic)
- Correia, G.D.S.**, **Takis, P.G.****, Sands, S. J., Kowalka, A. M., Tan, T., et. al., (2022) ‘¹H NMR Signals from Urine Excreted Protein Are a Source of Bias in Probabilistic Quotient Normalization’, *Analytical Chemistry*, 94(19), pp 6919-6923. <https://doi.org/10.1021/acs.analchem.2c00466> (†Co- first and *Corresponding Author)
- Takis, P.G.***, Jiménez, B., Al-Saffar, N.M.S., Harvey, N., Chekmeneva, E., Misra, S., Lewis, M.R., (2021) ‘A Computationally Lightweight Algorithm for Deriving Reliable Metabolite Panel Measurements from 1D ¹H NMR’, *Analytical Chemistry*, 93(12), pp. 4995–5000. <https://doi.org/10.1021/acs.analchem.1c00113> (*Corresponding Author)
- Takis, P.G.*** Jiménez, B., Sands, C.J., Chekmeneva, E., Lewis, M.R., (2020) ‘SMolESY: An efficient and quantitative alternative to on-instrument macromolecular ¹H-NMR signal suppression’, *Chemical Science*, 11(23) pp. 6000 – 6011. <https://doi.org/10.1039/D0SC01421D> (*Corresponding Author)
- Vignoli, A., Ghini, V., Meoni, G., Licari, C., **Takis, P. G.**, Tenori, L., Turano, P., Luchinat, C. (2018) ‘High-throughput metabolomics by 1D NMR’, *Angewandte Chemie Int. Ed.*, 58, pp. 968–994. <https://doi.org/10.1002/anie.201804736>
- Takis, P. G.**, Schäfer, H., Spraul, M., Luchinat, C. (2017) ‘Deconvoluting interrelationships between chemical shifts and concentrations in complex mixtures: a powerful biofluid analysis tool’, *Nature Communications*, 8, pp. 1–11. <https://doi.org/10.1038/s41467-017-01587-0>
- Takis, P. G.**, Ghini, V., Tenori, L., Turano, P., Luchinat, C. (2018) ‘Uniqueness of the NMR approach to metabolomics’, *Trends in Analytical Chemistry (TrAC)*. <https://doi.org/10.1016/j.trac.2018.10.036>
- Cunha, D.L., Richardson, R., Tracey-White, D., Abbouda, A., Mitsios, A., Horneffer-van der Sluis, V., **Takis, P.G.**, Owen, N., Skinner, J., Welch, A., Moosajee, M., (2021) ‘REP1-deficiency causes systemic dysfunction of lipid metabolism and oxidative stress in choroideremia’, *JCI insight*, 93(12), pp. 4995–5000. <https://doi.org/10.1172/jci.insight.146934>
- Vignoli, A., Tenori, L., Giusti, B., **Takis, P. G.**, Valentec, S., Carabba, N., Balzi, D., Barchielli, A., Marchionni, N., Gensini, G. F., Marcucci, R., Luchinat, C., Gori, A. M. (2019) ‘NMR-based Metabolomics identifies high risk of death patients within two years after acute myocardial infarction in the AMI-Florence II cohort’, *BMC Medicine*, 17(3), <https://doi.org/10.1186/s12916-018-1240-2>

Number of peer-reviewed publications: 48

Book chapters: 2

International Patents: 2

Published/Released Software: 4

Total number of citations (Google Scholar): 2870 — **h-index (Google Scholar):** 16 — **i10-index (Google Scholar):** 25