

PERSONAL INFORMATION

Dr. Alessandra Bisio

ORCID: <https://orcid.org/0000-0002-3326-1923>

POSITION

Assistant Professor at CIBIO - Department of Cellular, Computational and Integrative Biology , University of Trento, Via Sommarive 9, 38123 Povo (TN)

WORK EXPERIENCE

| | |
|---|--|
| 19 th December 2016 – to date | Assistant Professor at CIBIO - Department of Cellular, Computational and Integrative Biology - University of Trento, Italy |
| 16 th May 2016 – 18 th December | Post-Doc Fellow at Armenise-Harvard Cancer Biology & Genetics, Centre of Integrative Biology (CIBIO) - University of Trento, Italy |
| 3 rd May 2010 – 6 th May 2016 | Post-Doc Fellow at Laboratory of Transcriptional Networks, Centre of Integrative Biology (CIBIO) - University of Trento, Italy |
| 1 st January 2010 to 30 April 2010 | Temporary researcher at Molecular Mutagenesis and DNA Repair Unit, National Institute for Cancer Research IST, Genoa |
| 12 th January 2009 to 4 th December 2009 | Visiting Fellow at Centre of Integrative Biology (CIBIO) - University of Trento, Italy |
| 5 th May 2008 to 23 rd December 2008 | Visiting Fellow at Fraunhofer-Institut für Toxikologie und Experimentelle Medizin- Hannover, Germany |
| 4 th February 2008 to 4 th May 2008 | Visiting Fellow at Centre of Integrative Biology (CIBIO) - University of Trento, Italy |
| 1 st January 2007 to 31 st December 2009 | PhD program (XXII° Cycle) in Oncological Genetics and Biology of Differentiation at Biomedical Science and Technology School - University of Genoa, winner of a Fellowship issued by University of Genoa |
| 1 st January 2006 to 31 st December 2006 | xPre-Doc fellow at Molecular Mutagenesis and DNA Repair Unit, National Institute for Cancer Research IST, Genoa |
| 2 nd February 2005 to 31 st December 2005 | Pre-Doc fellow in the Molecular Genetic and Gene expression Laboratory directed by Prof. G.B. Ferrara, Pathological Anatomy Department, University of Genoa |
| 1 st December 2004 to 31 st January 2005 | Collaboration with the same Laboratory due to an assignment of a Pre-Doc fellow position |
| November 2002 to December 2004 | Internship for the preparation of the experimental thesis, Embriology and Cytotoxicology Laboratory of Department of Biology, University of Genoa |

EDUCATIONAL STUDIES

| | |
|-------------------------------|---|
| January 2007 to December 2009 | PhD program Student (XXII° Cycle) in Oncological Genetics and Biology of Differentiation at Biomedical Science and Technology School - University of Genoa |
| 12 June 2005 | Professional qualification of Biologist. |
| 24 November 2004 | University Degree in Biological Science at University of Genoa (Thesis title: Molecular mechanisms of Organophosphate Pesticides action on cellular growth in NT-2 cell line – Advisors: Prof. C. Falugi, Prof. M. Vallarino) |
| July 1995 | General Certificate of Education at “Leonardo da Vinci” Scientific High School of Genoa |

TEACHING EXPERIENCE

| | |
|---------------------------------------|--|
| September 2022 to date | Assignment of a teaching position in Biology of Cancer, Biomolecular Sciences and Technology, University of Trento, Italy |
| September 2018 to date | Assignment of a teaching position in Laboratory of Molecular Biology of the Cell, Biomolecular Sciences and Technology, University of Trento, Italy |
| 18 September 2017 to date | Assignment of a teaching position in Laboratory of Genetics, Biomolecular Sciences and Technology, University of Trento, Italy |
| 18 September 2017 to 22 December 2017 | Assignment of a teaching position (for the academic year 2017-2018) in Laboratory of Molecular Biology, Biomolecular Sciences and Technology, University of Trento, Italy |
| 14 September 2011 to 12 February 2016 | Assignment of an assistant teaching position in Laboratory of Genetics, Biomolecular Sciences and Technology, University of Trento, Italy |
| 3 October 2015 to Date | Assignment of a teaching position in Cell and Molecular Biology in the contest of the CLIL (Content and Language Integrated Learning), Liceo G. Prati |
| February 2015 to February 2020 | Assignment of a teaching position in Laboratory of Genetics Istituto De Carneri |
| 7 March to 13 June 2014 | Assignment of a teaching position for the disciplinary block “Laboratorio didattico di Scienze della vita” in the PAS (Percorsi Abilitanti Speciali classe A059) course, University of Trento, Italy |
| 18 February to 31 May 2013 | Assignment of an assistant teaching position (for the academic year 2012-2013) for the Course of Molecular Genetic and Epigenetic of Tumors, Biomolecular Sciences and Technology, University of Trento, Italy |
| 17 September to 21 December 2012 | Assignment of an assistant teaching position (for the academic year 2012-2013) in Laboratory of Single Gene Diseases, Biomolecular Sciences and Technology, University of Trento, Italy |

Qualification to function as associate professor

- 5 December 2017: Scientific area 05/I1 Genetics
- 7 December 2017: Scientific area 05/E2 Molecular Biology
- 18 September 2018: Scientific area 05/F1 Applied Biology

PERSONAL SKILLS

| | |
|-------------------|--|
| Mother tongue(s) | Italian |
| Other language(s) | English fluent |
| Computer skills | Good command of Microsoft Office™ tools, Prism, Sequence Navigator and other scientific tools. |

TECHNICAL SKILLS

In the time frame of the years indicated above I had the chance to develop a huge experience in the field of Molecular and Cellular Biology:

- DNA, RNA and Proteins manipulation from different sample/organism types (purification, modification, horizontal and vertical gel electrophoresis, PCR, RT-PCR, PCR in Real Time; Western Blot; many different types of cloning as direct or PCR tailed cloning, TOPO-TA cloning); polysomal RNA extraction; RNA Immuno Precipitation;
- Genetic manipulation and culturing of lower evolutionistically organisms as yeast and bacteria (different transformation methods, GAP Repair assay, qualitative and quantitative transcriptional assays, modifications at genomic level; “Delitto Perfetto” Approach, Fluorescence microscopy using Bimolecular Fluorescence Complementation technique);
- In vitro manipulation of cell lines from higher organisms (human/mouse/rat) cellular cultures in sterile working environment; sterility control and mycoplasma test using Hoechst coloration or PCR; quantitative transcriptional assays; transient and stable transfections using different protocols (Fugene HD, TransIT-LT1, Lipofectamine 2000 and LTX, Effectene and Calcium Phosphate); differential treatments with cancerogenic/chemiotherapeutic agents. Primary culture obtained from surgical samples. Cell growth analysis (Crystal violet). Cytotoxicity tests (MTS, MTT). Apoptosis analysis using acridina orange/ethyidium bromide staining, Annexin V, loss of mitochondrial potential, caspases activation, DNA fragmentation and FACS analyses, Gene reporter Assays; CRISPR/Cas9
- Retroviral manipulation for cellular delivery;
- Immunohistochemistry and immunofluorescence on cell culture. Staining for identification of nuclei, mitochondria and Golgi apparatus. DAPI, DAB and alkaline phosphatase staining.

AWARDS

- 2010: Winner of a Meeting bursary issued by European Association for Cancer Research (EACR) to participate at 21st Meeting of the European Association for Cancer Research 26 - 29 June 2010, Oslo Norway
- 2010: Winner of “Pezcoller Begnudelli Award” for best poster and selected for an oral presentation at 22th Pezcoller Symposium “RNA Biology and Cancer”, Trento, Italy, 10 – 12 June 2010.
- 2010: Winner of a Meeting bursary issued by Association for International Cancer Research (AICR) to participate at AICR 30th Anniversary Conference 7-9 April 2010, St Andrews, Scotland

- 2007: Winner of a PhD program Fellowship issued by University of Genoa

GRANTS

INFN (National Institute for Nuclear Physics) Nov 2021 – Dec 2024
FRIDA - FLASH Radiotherapy with high Dose-rate particle beams
Role: external collaborator

NFN (National Institute for Nuclear Physics) 2021-2022
MICROBE IT, CSN5
Role: external collaborator

CARITRO Fall 2016 - Fall 2018: used to hire a PostDoc Fellow
Role of DD1 α in the induction of post-radiation induced Phoenix Rising Effect
Role: PI Direct cost per year: 20000 Euro

INFN (National Institute for Nuclear Physics) Feb 2017 – Jan 2020
MoVe-IT - Modeling and Verification for Ion beam Treatment planning
Role: external collaborator Direct cost per year: 20000 Euro

INFN (National Institute for Nuclear Physics) Jan 2020 – Dec 2023
Isolpharm EIRA
Role: external collaborator

Faculty Resources Grant, University of Trento Fall 2016 - Fall 2021
Role of p53 in the response to different source of radiation therapy
Role: PI Direct cost per year: 5000 Euro

Bando Starting Grant Giovani Ricercatori - 2019
Direct cost per year: 13000 Euro

Fondo di finanziamento per le attività base di ricerca (FFABR), MIUR - 2018
Direct cost per year: 3000 Euro

Bando Starting Grant Giovani Ricercatori - 2014
Direct cost per year: 9000 Euro

PUBLICATIONS

1. Agata Sofia Assuncao Carreira, Silvia Ravera, Chiara Zucal, Natthakan Thongon, Irene Caffa, Cecilia Astigiano, Nadia Bertola, Arianna Buongiorno, Michela Rocuzzo, **Alessandra Bisio**, Barbara Pardini, Alessio Nencioni, Santina Bruzzone, Alessandro Provenzani. Mitochondrial rewiring drives metabolic adaptation to NAD(H) shortage in triple negative breast cancer cells. *Neoplasia* (United States), 2023, 41, 100903. DOI: 10.1016/j.neo.2023.100903
2. Erna Marija Meškytė, Laura Pezzè, Laura Bartolomei, Mattia Forcato, Irene Adelaide Bocci, Giovanni Bertalot, Mattia Barbareschi, Leticia Oliveira-Ferrer, **Alessandra Bisio**, Silvio Bicciato, Daiva Baltrikienė & Yari Ciribilli. ETV7 reduces inflammatory responses in breast cancer cells by repressing the TNFR1/NF- κ B axis. *Cell Death Dis* 14, 263 (2023). <https://doi.org/10.1038/s41419-023-05718-y>
3. Cunningham, C.; Bolcaen, J.; **Bisio, A.**; Genis, A.; Strijdom, H.; Vandevoorde, C. Recombinant Endostatin as a Potential Radiosensitizer in the Treatment of Non-Small Cell Lung Cancer. *Pharmaceuticals* 2023, 16, 219. <https://doi.org/10.3390/ph16020219>
4. Cambuli F, Foletto V, Alaimo A, De Felice D, Gandolfi F, Palumbieri MD, Zaffagni M, Genovesi S, Lorenzoni M, Celotti M, Bertossio E, Mazzerò G, Bertossi A, **Bisio A**, Berardinelli F, Antoccia A, Gaspari M, Barbareschi M, Fiorentino M, Shen MM,

- Loda M, Romanel A, Lunardi A. Intra-epithelial non-canonical Activin A signaling safeguards prostate progenitor quiescence. *EMBO Rep.* 2022 May 4;23(5):e54049. doi: 10.15252/embr.202154049.
5. Samuel Valentini*, Caterina Marchioretto*, **Alessandra Bisio***, Annalisa Rossi, Sara Zaccara, Alessandro Romanel, Alberto Inga. TransSNPs: A class of functional SNPs affecting mRNA translation potential revealed by fraction-based allelic imbalance. *iScience*, Volume 24, Issue 12, 2021, <https://doi.org/10.1016/j.isci.2021.103531>.
 6. Bosco B, Rossi A, Rizzotto D, Hamadou MH, **Bisio A**, Giorgetta S, Perzoli A, Bonollo F, Gaucherot A, Catez F, Diaz J-J, Dassi E, Inga A. DHX30 Coordinates Cytoplasmic Translation and Mitochondrial Function Contributing to Cancer Cell Survival. *Cancers.* 2021; 13(17):4412. <https://doi.org/10.3390/cancers13174412>
 7. Galeaz C, Totis C, **Bisio A**. Radiation Resistance: A Matter of Transcription Factors. *Front Oncol.* 2021 Jun 1;11:662840. doi: 10.3389/fonc.2021.662840. eCollection 2021.
 8. Hamadou, Meriem Hadjer; Kerkatou, Messaoud; Zucal, Chiara; **Bisio, Alessandra**; Provenzani, Alessandro; Inga, Alberto; Menad, Ahmed; Benayache, Samir; Benayache, Fadila; Ameddah, Souad. Limonium duriusculum (de Girard) Kuntze Exhibits Anti-inflammatory Effect Via NF- κ B Pathway Modulation. *Braz. arch. biol. technol.* 2021 Vol.64 <https://doi.org/10.1590/1678-4324-2021200179>
 9. Alaimo, A., Lorenzoni, M., Ambrosino, P., Bertossi, A., **Bisio, A.**, Macchia, A., Zoni, E., Genovesi, S., Cambuli, F, Foletto, V., De Felice, D., Soldovieri, M.V., Mosca, I., Gandolfi, F, Brunelli, M., Petris, G., Cereseto, A., Villarroel, A., Thalmann, G., Carbone, F.G., Kruithof-de Julio, M., Barbareschi, M., Romanel, A., Tagliatela, M., Lunardi, A. Calcium cytotoxicity sensitizes prostate cancer cells to standard-of-care treatments for locally advanced tumors. *Cell Death and Disease*, 2020, 11(12), 1039. DOI: 10.1038/s41419-020-03256-5
 10. Tosato M, Verona M, Caeran M, Borgna F, Vettorato E, Corradetti S, Zanrando L, Sgaravatto M, Veriato M, Asti M, Marzaro G, Mastrotto F, Di Marco V, Maniglio D, **Bisio A**, Motta A, Quaranta A, Zenoni A, Pastore P, Realdon N, Andrighetto A. Preliminary evaluation of the production of non-carrier added ¹¹¹Ag as core of a therapeutic radiopharmaceutical in the framework of ISOLPHARM_Ag experiment. *Applied radiation and isotopes.* 2020, 164, 109258. DOI: 10.1016/j.apradiso.2020.109258
 11. Monti P, Ciribilli Y, Foggetti G, Menichini P, **Bisio A**, Cappato S, Inga A, Divizia MT, Lerone M, Bocciardi R, Fronza G. P63 modulates the expression of the WDFY2 gene which is implicated in cancer regulation and limb development. *Biosci Rep.* 2019 Dec 20;39(12). doi: 10.1042/BSR20192114.
 12. Hamadou MH, Kerkatou M, Gatto P, Pancher M, **Bisio A**, Inga A, Menad A, Benayache S, Benayache F, Ameddah S. Apigenin rich-Limonium duriusculum (de Girard) Kuntze promotes apoptosis in HCT116 cancer cells. *Nat Prod Res.* 2019 Oct 9:1-5. doi: 10.1080/14786419.2019.1672070.
 13. Gomes S, Bosco B, Loureiro JB, Ramos H, Raimundo L, Soares J, Nazareth N, Barcherini V, Domingues L, Oliveira C, **Bisio A**, Piazza S, Bauer MR, Brás JP, Almeida MI, Gomes C, Reis F, Fersht AR, Inga A, Santos MMM, Saraiva L. SLMP53-2 Restores Wild-Type-Like Function to Mutant p53 through Hsp70: Promising Activity in Hepatocellular Carcinoma. *Cancers (Basel)* 2019 Aug 10;11(8) doi: 10.3390/cancers11081151.
 14. Helm A, Ebner DK, Tinganelli W, Simoniello P, Marchesano V, **Bisio A**, Durante M, Yamada S, Shimokawa T. Combining heavy ion therapy with immunotherapy: Update on recent developments. *International Journal of Particle Therapy.* 2018 Sep 21;5(1):84-93. doi: 10.14338/IJPT-18-00024.1
 15. Ebner DK, Tinganelli W, Helm A, **Bisio A**, Simoniello P, Natale F, et al. Generating and grading the abscopal effect: Proposal for comprehensive evaluation of combination immunoradiotherapy in mouse models. *Translational Cancer Research.* 2017;6:S892-S9. doi: 10.21037/tcr.2017.06.01
 16. Bruno W, Andreotti V, **Bisio A**, Pastorino L, Fornarini G, Sciallero S, et al. Functional analysis of a CDKN2A 5'UTR germline variant associated with pancreatic cancer development. *PLoS ONE.* 2017;12(12). doi: 10.1371/journal.pone.0189123

17. Ebner DK, Tinganelli W, Helm A, **Bisio A**, Yamada S, Kamada T, et al. The immunoregulatory potential of particle radiation in cancer therapy. *Frontiers in Immunology*. 2017; Feb 6;8:99. doi: 10.3389/fimmu.2017.00099. eCollection 2017.
18. Soares J, Raimundo L, Pereira NAL, Monteiro Â, Gomes S, Bessa C, Pereira C, Queiroz G, **Bisio A**, Fernandes J, Gomes C, Reis F, Gonçalves J, Inga A, Santos MM, Saraiva L. Reactivation of wild-type and mutant p53 by tryptophan-derived oxazoloisindolinone SLMP53-1, a novel anticancer small-molecule. *Oncotarget*. 2016;7(4):4326-43. doi: 10.18632/oncotarget.6775
19. Andreotti V*, **Bisio A***, Bressac-de Paillerets B, Harland M, Cabaret O, Newton-Bishop J, et al. The CDKN2A/p16INK4a5'UTR sequence and translational regulation: Impact of novel variants predisposing to melanoma. *Pigment Cell and Melanoma Research*. 2016;29(2):210-21. doi: 10.1111/pcmr.12444
20. Tebaldi T, Zaccara S, Alessandrini F, **Bisio A**, Ciribilli Y, Inga A. Whole-genome cartography of p53 response elements ranked on transactivation potential. *BMC Genomics*. 2015;16(1). doi: 10.1186/s12864-015-1643-9
21. Soares J, Pereira NAL, Monteiro Â, Leão M, Bessa C, Dos Santos DJ Raimundo L, Queiroz G, **Bisio A**, Inga A, Pereira C, Santos MM, Saraiva L. Oxazoloisindolinones with in vitro antitumor activity selectively activate a p53-pathway through potential inhibition of the p53-MDM2 interaction. *European Journal of Pharmaceutical Sciences*. 2015;66:138-47. doi: 10.1016/j.ejps.2014.10.006
22. Sharma V, Jordan JJ, Ciribilli Y, Resnick MA, **Bisio A**[§], Inga A[§]. Quantitative analysis of NF-κB transactivation specificity using a yeast-based functional assay. *PLoS ONE*. 2015;10(7). doi: 10.1371/journal.pone.0130170
23. Ozretić P, **Bisio A**, Musani V, Trnski D, Sabol M, Levanat S, et al. Regulation of human PTCH1b expression by different 5' untranslated region cis-regulatory elements. *RNA biology*. 2015;12(3):290-304. doi: 10.1080/15476286.2015.1008929
24. Garritano S, Romanel A, Ciribilli Y, **Bisio A**, Gavoci A, Inga A, et al. In silico identification and functional validation of allele-dependent AR enhancers. *Oncotarget*. 2015;6(7):4816-28. doi: 10.18632/oncotarget.3019
25. **Bisio A**, Latorre E, Andreotti V, Paillerets BB, Harland M, Scarra GB, et al. The 5'-untranslated region of p16INK4a melanoma tumor suppressor acts as a cellular IRES, controlling mRNA translation under hypoxia through YBX1 binding. *Oncotarget*. 2015;6(37):39980-94. doi: 10.18632/oncotarget.5387
26. Zaccara S, Tebaldi T, Pederiva C, Ciribilli Y, **Bisio A**, Inga A. P53-directed translational control can shape and expand the universe of p53 target genes. *Cell Death and Differentiation*. 2014;21(10):1522-34. doi: 10.1038/cdd.2014.79
27. Monti P*, Ciribilli Y*, **Bisio A***, Foggetti G, Raimondi I, Campomenosi P, et al. ΔN-p63a and ta-p63a exhibit intrinsic differences in transactivation specificities that depend on distinct features of dna target sites. *Oncotarget*. 2014;5(8):2116-30. doi: 10.18632/oncotarget.1845
28. **Bisio A**, Záborszky J, Zaccara S, Lion M, Tebaldi T, Sharma V, et al. Cooperative interactions between p53 and NFκB enhance cell plasticity. *Oncotarget*. 2014;5(23):12111-25. doi: 10.18632/oncotarget.2545
29. **Bisio A**, Ciribilli Y, Fronza G, Inga A, Monti P. TP53 mutants in the tower of babel of cancer progression. *Human Mutation*. 2014;35(6):689-701. doi: 10.1002/humu.22514.
30. Raimondi I, Ciribilli Y, Monti P, **Bisio A**, Pollegioni L, Fronza G, et al. P53 Family Members Modulate the Expression of PRODH, but Not PRODH2, via Intronic p53 Response Elements. *PLoS ONE*. 2013;8(7). doi: 10.1371/journal.pone.0069152
31. Lion M, **Bisio A**, Tebaldi T, De Sanctis V, Menendez D, Resnick MA, et al. Interaction between p53 and estradiol pathways in transcriptional responses to chemotherapeutics. *Cell cycle*. 2013;12(8):1211-24. doi: 10.4161/cc.24309

32. Leão M, Pereira C, **Bisio A**, Ciribilli Y, Paiva AM, Machado N, et al. Discovery of a new small-molecule inhibitor of p53-MDM2 interaction using a yeast-based approach. *Biochemical pharmacology*. 2013;85(9):1234-45. doi: 10.1016/j.bcp.2013.01.032
33. Ciribilli Y, Monti P, **Bisio A**, Nguyen HT, Ethayathulla AS, Ramos A, et al. Transactivation specificity is conserved among p53 family proteins and depends on a response element sequence code. *Nucleic Acids Research*. 2013;41(18):8637-53. doi:10.1093/nar/gkt657
34. **Bisio A**, De Sanctis V, Del Vescovo V, Denti MA, Jegga AG, Inga A, et al. Identification of new p53 target microRNAs by bioinformatics and functional analysis. *BMC cancer*. 2013;13. doi: 10.1186/1471-2407-13-552
35. Ozretić P, **Bisio A**, Inga A, Levanat S. The growing relevance of cap-independent translation initiation in cancer-related genes. *Periodicum Biologorum*. 2012;114(4):471-8. ISSN 0031-5362
36. Monti P, Perfumo C, **Bisio A**, Ciribilli Y, Menichini P, Russo D, et al. Dominant-negative features of mutant TP53 in germline carriers have limited impact on cancer outcomes. *Molecular Cancer Research*. 2011;9(3):271-9. doi: 10.1158/1541-7786.MCR-10-0496
37. Andreotti V, Ciribilli Y, Monti P, **Bisio A**, Lion M, Jordan J, et al. P53 transactivation and the impact of mutations, cofactors and small molecules using a simplified yeast-based screening system. *PLoS ONE*. 2011;6(6). doi: 10.1371/journal.pone.0020643
38. **Bisio A**, Nasti S, Jordan JJ, Gargiulo S, Pastorino L, Provenzani A, et al. Functional analysis of CDKN2A/p16INK4a5'-UTR variants predisposing to melanoma. *Human Molecular Genetics*. 2010;19(8):1479-91. doi: 10.1093/hmg/ddq022
39. Monti P, Ciribilli Y, Russo D, **Bisio A**, Perfumo C, Andreotti V, et al. Rev1 and Polζ influence toxicity and mutagenicity of Me-lex, a sequence selective N3-adenine methylating agent. *DNA Repair*. 2008;7(3):431-8. doi: 10.1016/j.dnarep.2007.11.015
40. Trombino S, **Bisio A**, Catassi A, Cesario A, Falugi C, Russo P. Role of the non-neuronal human cholinergic system in lung cancer and mesothelioma: Possibility of new therapeutic strategies. *Current Medicinal Chemistry - Anti-Cancer Agents*. 2004;4(6):535-42. DOI: 10.2174/1568011043352687

* Co-first authors
 § Co-last authors

SUBMITTED PAPERS

- Ciribilli Y*, **Bisio A***, Zemlin R, Reymann S, Spanel R, Jordan J.J., Inga A and Borlak J. Molecular insight into Doxorubicin-induced cardiomyopathy: a genome wide study identifies a disease associated Abl1 cis –element gene signature and Abl1 co-factor activity for p53 mediated apoptosis. *Ready to be submitted to Science Translation Medicine*.

MEETING PRESENTATIONS

- “Functional analysis of CDKN2A/p16^{INK4a} 5'UTR variants predisposing to melanoma” 22th Pezcoller Symposium “RNA Biology and Cancer”, Trento, Italy, 10 – 12 June 2010
- “The CDKN2A/p16^{INK4A} 5'UTR Sequence & Translational Regulation: Impact of Variants Associated with Melanoma”. HDIR-2 Second Meeting of the Croatian Association for Cancer Research, Zagreb November 8 and 9, 2012.

- “An internal ribosomal entry site in the 5'-untranslated region of p16^{INK4A} mRNA provides a novel mechanism for the regulation of its translation.” BIO Days 3-4 June 2013 Trento
- “Modeling and Verification for Ion beam Treatment planning: update on hypoxia chambers and RBE phantom.” MoVe-IT 2nd Annual Meeting 21-22 June 2018 Catania
- “Development of specific devices for spatially resolved proton RBE measurement” MoVe-IT 3rd Annual Meeting, June 2019: Alghero, Italy.
- “The lack of p21 sensitizes colon cancer cells to radiation-induced apoptosis.” PhD School Seminar, University of Insubria, Varese, Italy, May 6, 2020
- “Impact of different radiation sources on transcription and translation to predict the molecular mechanisms underlying the abscopal effect.” Tyrolean cancer Research Institute Seminar, 3 December 2020

POSTER PRESENTATIONS

I presented (or the younger researchers working in my group) more than 40 posters with research data in several national as well as international congresses.

Other Experiences and Professional Memberships

Member of European Association for Cancer Research (EACR), International PhD program in Biomolecular Sciences at University of Trento, Board of Advisors, American Association for Cancer Research (AACR), Italian Genetics Association (AGI), PathoBiology Group within the European Organization for Research and Treatment of Cancer (EORTC-PBG), Italian Society for Radiation Research (SIRR).

I served as reviewer for several respected scientific journals such as, *Frontiers in Oncology*, *Cancers*, *Oncotarget*, *Molecules*, and *Computational Biology and Chemistry*.

I supervised 12 Bachelor as well as 11 Master students (two currently), and I also supervised 2 different PhD students both as Senior PostDoc before and as independent Group Leader.

Trento, 04/10/2023

CURRICULUM VITAE OF GIANLUCA LATTANZI

Languages: English (C1), German (B1), French (A2)

Present Appointment

Full Professor of Applied Physics at the Physics Department, University of Trento (2021-)

Academic Qualifications

- PhD cum laude in Condensed Matter Theory at the International School for Advanced Studies (SISSA-ISAS), Trieste, Italy (2001)
- Degree cum laude in Physics at the University of Bari, Italy (1997)

Current academic responsibilities

- Academic Coordinator of the Physics Department, University of Trento (2018-)
- Member of the "Giunta di Dipartimento" (Department Board), Physics Department, University of Trento (2018-)
- Referent Professor for the Area of Specialization "Biophysics", Physics Department, University of Trento, Italy (2017-)
- Member of the "Comitato di Gestione" (Management Committee) of the Master Program in "Quantitative and Computational Biology", University of Trento (2016-)
- Director's Delegate for the CLA – University Language Center, University of Trento (2017-)
- Member of the "Collegio dei Docenti" (Board of the PhD Program) in Physics, University of Trento (2016-)
- Incarico di Ricerca (Research Associate) at the Trento Institute for Fundamental Physics and Applications (TIFPA-INFN) – Iniziativa Specifica BIOPHYS (2016-)
- Member of the Steering Committee of FormID "Centro di competenza per la Formazione dei docenti e l'Innovazione Didattica", University of Trento (2019-)

Current research activities

- Molecular Dynamics simulations of membrane proteins
- Modeling of organic materials in electronic devices (thin film transistors, organic photovoltaics)
- Molecular modeling of radiation damage in DNA

Bibliometric values

H-index: 22 (Google Scholar), 20 (Scopus)

Total number of citations: 1725 (Google scholar), 1214 (Scopus)

ASN indicators: comparison with threshold values in the SSD 02/D1-FIS/07

Number of papers in the last 10 years: 27. Threshold value: 29

Number of citations in the last 15 years: 1066 (Scopus). Threshold value: 601

H-index in the last 15 years: 18 (Scopus). Threshold value: 14

Previous appointments

- Associate Professor of Applied Physics at the Physics Department, University of Trento (2016-2021)
- Associate Professor of Applied Physics at the Department of Clinical and Experimental Medicine, University of Foggia, Italy (2015-2016)
- Ricercatore Universitario (Assistant Professor) of Applied Physics at the University of Bari, Italy (2005-2015)
- Marie Curie Fellow (European Reintegration Grant) at the University of Bari, Italy (2004)
- Marie Curie Fellow (Individual Grant) at the Hahn-Meitner Institut, Berlin, Germany (2002-2004)

Previous academic responsibilities

- Member of the "Collegio dei Docenti" (Board of the PhD Program) in Medical Biology and Biochemistry, University of Bari (2010-2013)
- Incarico di Ricerca (Research Associate) at the INFN Unità di Ricerca di Bari (Bari INFN research Unit) – Iniziativa Specifica BIOPHYS (2005-2016)
- Member of the Centro di Eccellenza TIRES – Tecnologie Innovative per la Rilevazione e l'Elaborazione del Segnale (Excellence Centre TIRES – Innovative Technologies for Signal Detection and Processing), University of Bari (2005-2016)
- Member of the Graduation Committee (Bachelor and Master Degree in Physics), University of Bari (2013-2015)
- Member of the Commissione Paritetica (Students/teachers Joint Committee), Bachelor and Master Degree in Physics, University of Bari (2013-2015)

Visiting Appointments

- Visiting Professor at the International School for Advanced Studies (SISSA-ISAS), Trieste, Italy (2006-2009)
- Visiting Professor at Rush Medical Center, Chicago, IL, United States of America (2009-2012)
- Visiting Professor at the University College Dublin, Republic of Ireland (2011-2012)

Supervision of Master/PhD students

- 18 Master Thesis Students, 4 PhD Students

Teaching Experience (full courses - titolarità)

- Medical Physics, General Physics (8 ECTS/year), Faculty of Medicine, University of Bari 2005-2015, including “Medical Physics” in English for the Bari English Medical Curriculum (2012-2015)
- Molecular Simulation Techniques (4 ECTS/year), Department of Physics, University of Bari (2009-2016)
- Computational Physics Laboratory (6 ECTS/year), Department of Physics, University of Bari (2013-2015)
- Numerical Methods in Geophysics (7 ECTS/year), Department of Geology, University of Bari (2013-2015)
- Fluid dynamics, ISUFI, University of Lecce (3 ECTS), 2014
- General Physics, Department of Agricultural Studies, Department of Clinical and Experimental Science, University of Foggia (19 ECTS in total), 2016
- Physics I, Department of Industrial Engineering, University of Trento (6 ECTS), 2016
- Introductory Statistical Mechanics, Department of Physics, University of Trento (6 ECTS/year), 2016-2019
- **Computational Biophysics**, CIBIO/Department of Physics, University of Trento (12 ECTS/year), 2017-ongoing
- **Applied Physics**, School of Medicine and Surgery, University of Verona (3 ECTS/year), 2018-ongoing
- **Applied Physics**, School of Medicine and Surgery, University of Trento/Verona (6 ECTS/year), 2020-ongoing

Lecturer at International Schools

- Summer School on Classical Molecular Dynamics for Material Science, Nanotechnology and Biophysics, SISSA-Trieste, June 10-21, 2019
- Summer School on Classical and Quantum Monte Carlo methods for Material Science, Nanotechnology and Biophysics, SISSA-Trieste, June 26 – July 13, 2018
- Summer School on Atomistic Simulation Techniques for Material Science, Nanotechnology and Biophysics, SISSA-Trieste, July 5-22, 2016
- Summer School on Atomistic Simulation Techniques for Material Science, Nanotechnology and Biophysics, SISSA-Trieste, July 6-24, 2015
- Summer School on Atomistic Simulation Techniques for Material Science, Nanotechnology and Biophysics, SISSA-Trieste, June 30-July 18, 2014
- Summer School on Atomistic Simulation Techniques for Material Science, Nanotechnology and Biophysics, SISSA-Trieste, July 8-26, 2013
- Summer School on Atomistic Simulation Techniques for Material Science, Nanotechnology and Biophysics, SISSA-Trieste, July 9-28, 2012
- Summer School on Atomistic Simulation Techniques for Material Science, Nanotechnology and Biophysics, SISSA-Trieste, July 11-29, 2011

- Summer School on Atomistic Simulation Techniques for Material Science, Nanotechnology and Biophysics, SISSA-Trieste, July 5-23, 2010

Funded Grants in Competitive Calls and Role

- 2020: Call “Bando COVID-19” for the project *AIACE - Artificial Intelligence Tracking Algorithms of Covid-19 Epidemics* funded by the University of Trento (€ 71,000). Participant. (Coordinator: Dr. Luca Tubiana).
- 2019: EUREGIO Mobility Fund for the project *EJCPI – Euregio Joint Computational Physics Initiative* funded by the Euroregion Trentino - South Tyrol – Tyrol (€ 6,800). **Coordinator.**
- 2018: EUREGIO Mobility Fund for the project *EJCPI – Euregio Joint Computational Physics Initiative* funded by the Euroregion Trentino - South Tyrol – Tyrol (€ 7,600). **Coordinator.**
- 2017: EUREGIO Mobility Fund for the project *EJCBI – Euregio Joint Computational Biophysics Initiative* funded by the Euroregion Trentino - South Tyrol – Tyrol (€ 9,000). **Coordinator.**
- 2013-2016: Futuro in Ricerca FIR2012, project “Study of the pathophysiological role of the D184E mutation in the Aquaporin-4 gene”, funded by the Italian Ministry of Education and Research (MIUR) (€ 240,000). Participant.
- 2008: PRIN 2007, project “Multiscale approach for the characterization of protein-ligand and protein-protein interactions: from ligand recognition to protein aggregation”, funded by the Italian Ministry of Education and Research (MIUR) (€ 22,488). **Responsabile dell’Unità di ricerca (Local Coordinator).**
- 2006: PRIN 2005, project “Models of biological macromolecules: mechano-chemical systems, biological filaments, coarse-grained protein models”, funded by the Italian Ministry of Education and Research (MIUR) (€ 38,559). **Responsabile dell’Unità di ricerca (Local Coordinator).**
- 2004: Marie Curie Reintegration Grant, project “Models of Biological Macromolecules”, funded by the Sixth Framework Program, European Commission (€ 40,000). **Principal Investigator.**
- 2002: Marie Curie Individual Fellowship, project “Statistical mechanics and stochastic models of protein motors”, funded by the Fifth Framework Program, European Commission (€ 288,000). **Principal Investigator.**

Organization of Conferences and Schools

- 103rd National Congress of the Italian Physical Society, Trento, September 11-15, 2017, Member of the Local Organizing Committee.
- Cecam Flagship Workshop “Frontiers and Challenges of computing metals for biochemical, medical and technological applications”, Paris, July 11-13, 2018, Scientific Organizer.
- Cecam Flagship Workshop “Computational Biophysics on your desktop: is that possible?”, University of Trento, September 3-6, 2018, Scientific Organizer.
- First Euregio Joint Computational Physics Initiative Summer Workshop, Goldrein (BZ), August 1-3, 2019, Main Scientific Organizer.

- International Winter School “Physics of the Cell”, University of Trento, January 19-31, 2020, Scientific Director.
- International Winter School “Physics of the Cell”, University of Trento, January 16-27, 2023, Scientific Director.

Selected invited talks at International Conferences (total 45: 29 invited, 16 contributed)

- “Challenges in computational biophysics: from membrane proteins to biosensors”, Basel Postdoc Network Retreat, Zermatt (CH), June 21-23, 2017. **Keynote speaker.**
- “Computational Biophysics: a new tool for Radiation Research?”, Annual Meeting of the Radiation Research Society, Chicago, IL (USA), September 25th, 2018. **Topical review.**
- “Challenges in Computational Biophysics: simulations meet experiments”, MD2meeting2019, Alma Mater Studiorum, Università di Bologna, March 15th, 2019.
- “Computational Biophysics in Trento: challenges and opportunities”, Current Advances and Challenges in Computational Modeling of Materials, Technical University of Eindhoven, the Netherlands, May 28th, 2019
- “Membrane Proteins: In & Out”, 6th Workshop on Physics of Biomolecules: Structure, Dynamics and Function, Bressanone, February 5-8, 2020.
- “Molecular Dynamics Simulations: experimental data speak louder than models”, 7th Workshop on Physics of Biomolecules: Structure, Dynamics and Function, Bressanone, September 5-8, 2022.

Selected Invited Seminars (total: 23)

- “Molecular dynamics simulations of membrane proteins: from the bench to in silico and back”, Université de Liège, Belgium, February 10th, 2015.
- “Organic thin film transistors: a new challenge for molecular dynamics simulations”, Forschungszentrum Jülich, Jülich, Germany, February 11th, 2015.
- “My journey in Biophysics”, Ludwig-Maximilians Universität, Munich, Germany, July 8th, 2017.
- “Molecular Simulations: no validations without applications”, ChimieParisTech, École Nationale Supérieure de Chimie de Paris, May 23rd, 2018.
- “Le sfide della biofisica computazionale”, Master in Comunicazione della Scienza Franco Prattico, SISSA-Trieste, January 17th, 2022.

Outreach activities

- Main organizer of the Fisicittà events and administrator of the Fisicittà facebook page: the Fisicittà initiative started as a container for social events accompanying the 103rd National Congress of the Italian Physical Society, in 2017. Since then, 2-3 events per year have been arranged.
- Fisicittà/Physics2night: popularized physics demonstrations in pubs scattered in Trento. Main organizer.

- Fisicità/Science on screen: movies on scientific themes followed by a public debate with two prominent scientists in the Trento territory. Main organizer.
- European Researchers' Night 2017: referent person for the Department of Physics, University of Trento.
- OrientaUniTN: 2 contributed talks "Anatomia delle bufale" ("Anatomy of fake news") and "Cosa è la vita? I fisici e la biologia" ("What is life? Physicists and Biology"). 5 talks have been arranged in 2020 and 2021 in high schools scattered in the provinces of Trento, Verona and Belluno.
- Main organizer of the events for the Biophysics Week in Trento for the years 2018 and 2019: the 2020 event was canceled due to the Covid-19 pandemic crisis.
- Manager of a blog on Computational Biophysics in Italian, with title "In silico, trotterellando": one blog entry per month, approximately 200 views/month. Total number of posts: 78. Part of this material has been used by colleagues to explain concepts and challenges in Computational Biophysics.
- Talk on Science Communication, title "Comunicare male l'innovazione: un danno per il Paese" ("Bad innovation communication: a damage to the country") #TalentCampus2019, University of Foggia, April 12th, 2019.
- Volunteer prison teacher for the Liceo "Antonio Rosmini" – Trento, Carcere di Spini di Gardolo, Summer 2019.
- Member of the "Comitato Italiano per il Controllo delle Affermazioni sulle Pseudoscienze" CICAP (Italian Committee for the Investigation of Claims of the Pseudosciences)
- Member of the Società Italiana di Fisica SIF (Italian Physical Society), the European Physical Society EPS, the Società Italiana di Biofisica Pura ed Applicata SIBPA (Italian Society for Pure and Applied Biophysics), and the American Biophysical Society.
- "What is life?" augmented lecture, writer and actor: 8 performances (4 in Italian, 4 in English) in Trento, Milan, Sofia, Belgrade, Antwerpen.

Referee for agencies and funding bodies for project evaluation

- European Research Council
- Italian Ministry for University and Research
- CINECA for the Italian SuperComputing Resource Allocation (ISCRA)
- PRACE – Partnership for Advanced Computing in Europe

Referee for universities and academic institutions for recruitment/PhD defense

- University of Trento, Italy
- University of Bari, Italy
- University of Padova, Italy
- "Sapienza" University of Rome, Italy
- Polytechnic University of Milan, Italy
- Eindhoven University of Technology, the Netherlands

Referee for journals

- Biophysical Journal
- Chemical Communications
- Computational Materials Science
- Journal of Chemical Theory and Computation
- Journal of Physical Chemistry
- Journal of Physics A
- Journal of Statistical Physics
- Molecular Informatics
- Nature Scientific Reports
- Physical Review Letters, Physical Review E
- PLOS Computational Biology, PLOS one
- Sensors
- Theoretical Chemistry Accounts

List of publications on peer reviewed journals

1. **G. Lattanzi**, G. Nardulli, S. Stramaglia and G. Pasquariello, *Stochastic learning in a neural network with adapting synapses*, Physical Review E 56, 4567 (1997).
2. **G. Lattanzi**, G. Nardulli and S. Stramaglia, *A neural network with permanent and volatile memory*, Modern Physics Letters B 11, 1037 (1997).
3. **G. Lattanzi** and A. Maritan, *Force dependence of the Michaelis constant in a two-state ratchet model for molecular motors*, Physical Review Letters 86, 1134-1137 (2001). **Corresponding author.**
4. **G. Lattanzi** and A. Maritan, *Master equation approach to molecular motors*, Physical Review E 64, 061905 (2001). **Corresponding author.**
5. C. Micheletti, **G. Lattanzi** and A. Maritan, *Elastic properties of proteins: insight on the folding process and evolutionary selection of native structures*, Journal of Molecular Biology 321, 909-921 (2002).
6. **G. Lattanzi** and A. Maritan, *Force dependent transition rates in chemical kinetics models for motor proteins*, Journal of Chemical Physics 117, 10339-10349 (2002). **Corresponding author.**
7. **G. Lattanzi**, *Constantly on the move*, Angewandte Chemie International Edition 41, 4351 (2002). **Corresponding author.**
8. **G. Lattanzi**, *Immer in Bewegung*, Angewandte Chemie 114, 4529 (2002) (traduzione in lingua tedesca della pubblicazione n. 7). **Corresponding author.**
9. **G. Lattanzi**, T. Munk and E. Frey, *Transverse fluctuations of grafted polymers*, Physical Review E 69, 021801 (2004). **Corresponding author.**
10. **G. Lattanzi**, *Application of coarse grained models to the analysis of macromolecular structures*, Computational Materials Science 30, 163-171 (2004). **Corresponding author.**
11. **G. Lattanzi** and A. Maritan, *Coarse grained models: the kinetics of motor proteins*, Computational Materials Science 30, 172-179 (2004). **Corresponding author.**

12. L. Angelini, **G. Lattanzi** et al., *Phase shifts of synchronized oscillators and the systolic/diastolic blood pressure relation*, *Physical Review E* 69, 061923 (2004).
13. M. de Tommaso et al., *Visually evoked phase synchronization changes of alpha rhythm in migraine. Correlations with clinical features*, *International Journal of Psychophysiology* 57, 203-210 (2005).
14. F. Pampaloni, **G. Lattanzi** et al., *Thermal fluctuations of grafted microtubules provide evidence of a length dependent persistence length*, *Proceedings of the National Academy of Sciences USA* 103, 10248-10253 (2006).
15. F. Wagner, **G. Lattanzi** and E. Frey, *Conformations of confined biopolymers*, *Physical Review E* 75, 050902 (2007). **Corresponding author.**
16. P. J. Keller, F. Pampaloni, **G. Lattanzi** and E. H. K. Stelzer, *Three-dimensional microtubule behavior in Xenopus egg extracts reveals four dynamic states and state-dependent elastic properties*, *Biophysical Journal* 95, 1474-1486 (2008).
17. K. Khafizov, **G. Lattanzi** and P. Carloni, *G protein inactive and active forms investigated by simulations methods*, *Proteins: structure, function and bioinformatics* 75(4), 919-930 (2009). **Corresponding author.**
18. V. Leone, **G. Lattanzi**, C. Molteni and P. Carloni, *Mechanism of action of cyclophilin A explored by metadynamics simulations*, *PLoS Comput Biol* 5(3): e1000309 (2009). **Corresponding author.**
19. M. Minozzi, **G. Lattanzi**, R. Benz, M. P. Costi, A. Venturelli and P. Carloni, *Permeation through the cell membrane of a boron based β -lactamase inhibitor*. *PLOS ONE* 6, ISSN: 1932-6203 (2011). **Corresponding author.**
20. I. Giangreco, **G. Lattanzi**, O. Nicolotti, M. Catto, A. Laghezza, F. Leonetti, A. Stefanachi and A. Carotti, *Insights into the complex formed by matrix metalloproteinase-2 and alloxan inhibitors: molecular dynamics simulations and free energy calculations*, *PLOS ONE* 6, ISSN: 1932-6203 (2011). **Corresponding author.**
21. G. Cottone, **G. Lattanzi**, G. Ciccotti and R. Elber, *Multiphoton absorption of myoglobin-nitric oxide complex: relaxation by D-NEMD of a stationary state*, *Journal of Physical Chemistry B* 116, 3397-3410 (2012).
22. D. Alberga, G. F. Mangiatordi, L. Torsi and **G. Lattanzi**. *Effects of Annealing and Residual Solvents on Amorphous P3HT and PBTTT Films*. *Journal of Physical Chemistry. C, Nanomaterials and Interfaces* 118, 8641-8655 (2014). **Corresponding author.**
23. P. Tardia, A. Stefanachi, M. Niso, D. A. Stolfa, G. F. Mangiatordi, D. Alberga, O. Nicolotti, **G. Lattanzi**, A. Carotti, F. Leonetti, R. Perrone, F. Berardi, A. Azzariti, N. A. Colabufo and S. Cellamare, *Trimethoxybenzanilide-Based P-Glycoprotein Modulators: An Interesting Case of Lipophilicity Tuning by Intramolecular Hydrogen Bonding*. *Journal of Medicinal Chemistry* 57, 6403-6418 (2014)
24. D. Alberga, O. Nicolotti, **G. Lattanzi**, G. P. Nicchia, A. Frigeri, F. Pisani, V. Benfenati, G. F. Mangiatordi, *A new gating site in human aquaporin-4: Insights*

- from molecular dynamics simulations*. *Biochimica et Biophysica Acta (BBA) – Biomembranes* 1838, 3052-3060 (2014).
25. F. Pisani, M. G. Mola, L. Simone, S. Rosito, D. Alberga, G. F. Mangiatordi, **G. Lattanzi**, O. Nicolotti, A. Frigeri, M. Svelto and G. P. Nicchia, *Identification of a Point Mutation Impairing the Binding between Aquaporin-4 and the Neuromyelitis Optica Autoantibodies*, *The Journal of Biological Chemistry* 289, 30578-30589 (2014).
 26. M. Y. Mulla, E. Tuccori, M. Magliulo, **G. Lattanzi**, G. Palazzo, K. Persaud and L. Torsi, *Capacitance modulated transistor detects odorant binding protein chiral interactions*, *Nature Communications* 6:6010, p. 1-9, ISSN: 2041-1723, doi: 10.1038/ncomms7010 (2015).
 27. G. F. Mangiatordi, D. Alberga, L. Siragusa, L. Goracci, **G. Lattanzi** and O. Nicolotti, *Challenging AQP4 druggability for NMO-IgG antibody binding using molecular dynamics and molecular interaction fields*, *Biochimica et Biophysica Acta (BBA) – Biomembranes* 1848, 1462-1471 (2015).
 28. P. Imbrici, L. Maggi, G. F. Mangiatordi, M. M. Dinardo, C. Altamura, R. Brugnioni, D. Alberga, G. Lauria Pinter, G. Ricci, G. Siciliano, R. Micheli, G. Annichiarico, **G. Lattanzi**, O. Nicolotti, L. Morandi, P. Bernasconi, J.-F. Desaphy, R. Mantegazza and D. Conte Camerino, *ClC-1 mutations in myotonia congenita patients: insights into molecular gating mechanisms and genotype-phenotype correlation*, *The Journal of Physiology*, (2015). DOI: 10.1113/JP270358.
 29. D. Alberga, A. Perrier, I. Ciofini, G. F. Mangiatordi, **G. Lattanzi** and C. Adamo, *Morphology and Charge Transport in Amorphous and Crystalline P3HT and PBTTT: Insights From Theory*, *Physical Chemistry Chemical Physics* 17, 18742-18750 (2015).
 30. D. Alberga, G. F. Mangiatordi, A. Motta, O. Nicolotti and **G. Lattanzi**, *Effects of Different Self Assembled Monolayers on Thin-Film Morphology: a Combined DFT/MD Simulation Protocol*, *Langmuir* 31, 10693-10701 (2015). **Corresponding author**.
 31. D. Alberga, G. F. Mangiatordi, F. Labat, I. Ciofini, O. Nicolotti, G. Lattanzi and C. Adamo, *Theoretical Investigation of Hole Transporter Materials for Energy Devices*, *J. Phys. Chem. C* 119, 23890-23898 (2015).
 32. G. F. Mangiatordi, D. Alberga, C. D. Altomare, A. Carotti, M. Catto, S. Cellamare, D. Gadaleta, **G. Lattanzi**, F. Leonetti, L. Pisani, A. Stefanachi, D. Trisciuzzi and O. Nicolotti, *Mind the gap! A journey towards computational toxicology*, *Mol. Informatics* 35, 294 (2016).
 33. E. Macchia, D. Alberga, K. Manoli, G. F. Mangiatordi, M. Magliulo, G. Palazzo, F. Giordano, **G. Lattanzi** and L. Torsi, *Organic bioelectronics probing conformational changes in surface confined proteins*, *Sci. Rep.* 6:28085 (2016).
 34. Z. Ghaemi, D. Alberga, P. Carloni, A. Laio and **G. Lattanzi**, *Permeability coefficients of lipophilic compounds estimated by computer simulations*, *J. Chem. Theory Computation* 12, 4093-4099 (2016). **Corresponding author**.

35. G. F. Mangiatordi, D. Alberga, D. Trisciuzzi, **G. Lattanzi** and O. Nicolotti, *Human Aquaporin-4 and Molecular Modeling: Historical Perspective and View to the Future*, *Int. J. Mol. Sci.* 17:E1119 (2016).
36. D. Alberga, I. Ciofini, G. F. Mangiatordi, A. Pedone, **G. Lattanzi**, J. Roncali and C. Adamo, *Effects of Substituents on Transport Properties of Molecular Materials for Organic Solar Cells: a Theoretical Investigation*, *Chem. Mat.* 29, 673-681 (2017).
37. G. F. Mangiatordi, D. Alberga, L. Pisani, D. Gadaleta, D. Trisciuzzi, R. Farina, A. Carotti, **G. Lattanzi**, M. Catto and O. Nicolotti, *A rational approach to elucidate human monoamine oxidase molecular selectivity*, *Eur. J. Pharm. Sci.* 101, 90-99 (2017).
38. D. Alberga, D. Trisciuzzi, **G. Lattanzi**, J. L. Bennet, A. S. Verkman, G. F. Mangiatori and O. Nicolotti, *Comparative molecular dynamics study of neuromyelitis optica-immunoglobulin G binding to aquaporin-4 extracellular domains*, *Biochimica et Biophysica Acta (BBA) – Biomembranes* 1859, 1326-1334 (2017).
39. F. Segatta, **G. Lattanzi** and P. Faccioli, *Predicting charge mobility of organic semiconductors with complex morphology*, *Macromolecules* 51, 9060-9068 (2018).
40. A. Borsatto, V. Marino, G. Abrusci, **G. Lattanzi** and D. Dell'Orco, *Effects of membrane and biological target on the structural and allosteric properties of recoverin: a computational approach*, *Int. J. Molecular Sciences* 20, 5009 (2019). **Corresponding author.**
41. M. Turelli, D. Alberga, **G. Lattanzi**, I. Ciofini and C. Adamo, *Theoretical insights on acceptor-donor dyads for organic photovoltaics*, *Phys. Chem. Chem. Phys.* 22, 27413-27424 (2020). **Corresponding author.**
42. L. Petrolli, F. Tommasino, E. Scifoni and **G. Lattanzi**, *Can we assess early DNA damage at the molecular scale by radiation track structure simulations? A tetranucleosome scenario in Geant4-DNA*, *Frontiers in Physics* 8, 576284 (2020). **Corresponding author.**
43. M. Turelli, **G. Lattanzi**, I. Ciofini and C. Adamo, *On the interplay between molecular packing and optical response in thin films for organic photovoltaics*, *J. Phys. Chem. C* 125, 16304-16315 (2021).
44. G. Abrusci, T. Tarenzi, M. Sturlese, G. Giachin, R. Battistutta and G. Lattanzi, *Comparative molecular dynamics investigation of the electromotile hearing protein prestin*, *Int. J. Molecular Sciences* 22, 8318.1-8318.15 (2021). **Corresponding author.**
45. T. Tarenzi, G. Lattanzi and R. Potestio, *Membrane binding of pore-forming gamma-hemolysin components studied at different lipid compositions*, *BBA – Biomembranes* 1864, 18397001-18397011 (2022).
46. E. Spinetti, P. Delre, M. Saviano, D. Siliqui, G. Lattanzi and G. F. Mangiatordi, *A comparative Molecular Dynamics study of selected point mutations in the Schwachman-Bodian-Diamond Syndrome Protein SBDS*, *Int. J. Molecular Sciences* 23, 793801-793817 (2022).

47. C. Paternoster, T. Tarenzi, R. Potestio and G. Lattanzi, *Gamma-Hemolysin Components: Computational Strategies for LukF-Hlg2 Dimer Reconstruction on a Model Membrane*, *Int. J. Molecular Sciences* 24, 711301-711318 (2023).

Corresponding author.

48. G. Novi Inverardi, F. Carnovale, L. Petrolli, S. Taioli, G. Lattanzi, *Silica In Silico: A Molecular Dynamics Characterization of the Early Stages of Protein Embedding for Atom Probe Tomography*, *Biophysica* 3, 276-287 (2023).

INFORMAZIONI PERSONALI **Alberto Moni**POSIZIONE RICOPERTA
ESPERIENZA
PROFESSIONALE**Collaboratore tecnico E.R. – VI Livello (CCNL EPR)**

Dal 20/12/2001

Collaboratore Tecnico (Coll. di Amministrazione fino al 31/12/2017)

INFN – Laboratori Nazionali di Legnaro (PD)

- Responsabile del Servizio Datawarehouse e Supporto all'Utenza della Direzione Sistemi Informativi dal 30/07/2021
- Analisi dei requisiti e funzionale, supporto all'analisi tecnica per nuovi sviluppi software (ciclo passivo e contabilità), test e supporto al debugging, redazione della manualistica e formazione del personale amministrativo
- Formazione e coordinamento gruppi di esperti di dominio per i vari applicativi software
- Configurazione e organizzazione del sistema di ticketing per l'assistenza e lo sviluppo software, con evoluzione delle relative integrazioni con gli altri applicativi esistenti (strumenti di PM)
- Assistenza informatica di primo livello sugli applicativi di ciclo passivo e contabilità
- Tesoreria (pagamenti, incassi, budget finanziario, rapporti con l'Istituto Tesoriere)
- Responsabile del Servizio Amministrazione per sostituzione di maternità (dal 1/7/2010 al 10/2/2011)
- Rappresentante del personale Tecnico e Amministrativo per i LNL (dal 15/01/2015) e moderatore dei due progetti VINCO e CERCO di WhatNextTTA (valorizzazione delle competenze nell'INFN).
- Sviluppo e manutenzione db locali (MS Access con VBA), reportistica di bilancio, modulistica informatizzata e aggiornamento pagine web istituzionali.

Dal 05/05/1999 al 19/12/2001

Attività o settore Direzione Sistemi Informativi (100% fte)**Impiegato amministrativo (part-time)**

Ditta Dainese Moreno – S. Angelo di Piove di Sacco (PD)

- Tenuta della contabilità economico-patrimoniale, redazione bilanci, tenuta registri IVA
- Responsabile Tecnico di impianto recupero rifiuti e adempimenti connessi (ex. D.Lgs. 22/1997)

Dal 01/12/1995 al 19/12/2001

Attività o settore Amministrazione nel settore del recupero materiali ferrosi**Istruttore amministrativo (part-time dal 01/05/1999)**

Comune di Fossò (VE)

- Tesoreria, gestione fatture passive, inventario, economato
- Istruttoria provvedimenti di accertamento e contenzioso in materia di tributi comunali e di commercio
- RSU

Attività o settore Servizio Ragioneria/Tributi/Commercio

ISTRUZIONE E FORMAZIONE

Corsi di formazione e aggiornamento1-3/07/2020
21-23/10/2020
16-18/12/2020

Corso ISOIVA (aggiornamento contabile e normativo)

Corso Gestione dei Requisiti (Fast Lane)

Corso Agile con Scrum (Fast Lane)

Dichiaro che i corsi sopraelencati sono pertinenti con l'attività svolta

Dal 1998 al 1993

Diploma di Ragioniere e Perito Commerciale

Istituto "E. Fermi" – Pontedera (PI)

Votazione 60/60

COMPETENZE PERSONALI

Lingua madre

Italiano

Altre lingue

| | COMPRESIONE | | PARLATO | | PRODUZIONE SCRITTA |
|----------|-------------|---------|-------------|------------------|--------------------|
| | Ascolto | Lettura | Interazione | Produzione orale | |
| Inglese | B1 | B1 | B1 | A2 | B1 |
| Francese | B1 | B2 | B1 | B1 | B1 |
| Spagnolo | A1 | A2 | A2 | A1 | A2 |

Competenze comunicative

- Buone competenze comunicative e multistile, acquisite durante l'attività di sportello tributi al Comune di Fossò, partecipando a riunioni con la Dirigenza INFN, tenendo dei talk in conferenze, fra cui uno in stile "TED" durante "WhatNextTTA – l'ente che vorrei" - fase I
- Buone competenze relazionali maturate nei vari ambienti lavorativi nei team collaborativi facenti parte di organizzazioni più ampie, durante corsi di formazione per il ruolo di rappresentante del personale e svolgendo il ruolo di facilitatore di un circolo di ascolto organizzativo presso INFN-LNL
- buone competenze gestionali acquisite durante:
 - l'esperienza, tutt'ora in corso, di responsabile di un servizio trasversale, nella gestione delle dinamiche interne ma anche in rapporto all'intero sistema INFN
 - la creazione dell'amministrazione digitale della ditta Dainese Moreno
 - la mia pluriennale esperienza di volontario come presidente e tesoriere di una compagnia teatrale
- buone competenze organizzative maturate con:
 - la gestione di sviluppi software da me coordinati da quando collaboro con il Sistema Informativo INFN
 - il coordinamento di un evento culturale per il Comune di Padova che ha visto coinvolte 33 associazioni diverse
 - le attività di rappresentanza del personale (Comune di Fossò, INFN) ricoperte in questi anni
- buona conoscenza della normativa no-profit acquisita durante la pluriennale attività di volontariato

Competenze organizzative e gestionali

Altre competenze professionali

Competenza digitale

| AUTOVALUTAZIONE | | | | |
|---------------------------------|---------------|------------------------|-----------|-------------------------|
| Elaborazione delle informazioni | Comunicazione | Creazione di Contenuti | Sicurezza | Risoluzione di problemi |
| Avanzato | Avanzato | Intermedio | Base | Avanzato |

- buona padronanza nell'utilizzo avanzato della suite MS Office (con programmazione VBA) acquisita in buona parte grazie ai corsi di formazione presso INFN
- conoscenza base di Oracle Enterprise Business Suite e del linguaggio pl/sql acquisiti mediante l'analisi volta all'identificazione dei bug e allo sviluppo di migliorie che regolarmente faccio assieme ai colleghi del Sistema Informativo INFN
- discreta padronanza dei programmi per l'elaborazione digitale delle immagini e dei video acquisita con l'attività di volontariato in compagnia teatrale (locandine, volantini, video promozionali)
- buona padronanza dei linguaggi html e css, conoscenze base di php e utilizzo avanzato del cms Joomla! con cui ho realizzato in passato un sito web per un'associazione culturale presso cui facevo volontariato e con cui tuttora gestisco le pagine web del Servizio Amministrazione dei LNL

Patente di guida

B

ULTERIORI INFORMAZIONI

Docenza Corsi

- Corso di aggiornamento sulle migliorie del software di contabilità, INFN (5-6/07 e 20-21/09/2016)
- Corso base di MS Excel, LNL (18 ore dal 21/05 al 05/06/2013)

Dati personali

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 Codice in materia di protezione dei dati personali".

Data e firma

Legnaro, 05/10/2023