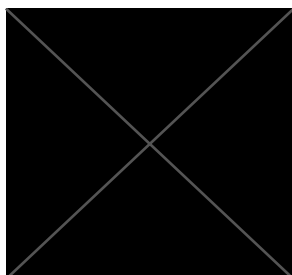


CURRICULUM PROFESSIONALE per adempimenti in materia di trasparenza D.lgs. n. 33/2013



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Scholar profile: <https://scholar.google.it/citations?user=fvdBhXYAAAAJ&hl=en>

ORCID ID: 0000-0002-1728-6397 ResearcherID: IJ-8762-2016

CURRENT POSITION

Dec 2018-today

Staff Scientist, Level III Researcher

CNR, Institute of Informatics and Telematics, via Moruzzi 1, 56124, Pisa

- Main Research areas: Bioinformatics, Development of Computational methods for Genomics, Models for omics integration to profile tumor heterogeneity at patient level (Precision oncology)
- **Principal Investigator of Computational and Translational Genomics Laboratory @ IIT-CNR**

PREVIOUS POSITION

Feb 2017-Dec 2018

Associate Researcher

CNR, Institute of Informatics and Telematics, via Moruzzi 1, 56124, Pisa

Dec 2012 - Feb 2017

Post-doctoral Researcher, Laboratory for Integrative Systems Medicine (LISM)

CNR, Institute of Informatics and Telematics, via Moruzzi 1, 56124, Pisa

Dec 2015-Dec 2017

Bioinformatics Research Consultant, Polo di Innovazione di Genomica, Genetica e Biologia, Siena

2010-2012

Research Expert, Novartis Vaccines and Diagnostic Srl, Siena

2006-2009

Postgraduate Research Fellow, Novartis Vaccines and Diagnostic Srl, Siena

2006

IT instructor, MIUR at Auselda AED Group SpA, Rome

EDUCATION AND TRAINING

2006-10

PhD in Computer Science (Bioinformatics section), Mathematical Logic and Cognitive Sciences, University of Siena

2005

Master universitario in Bioinformatics "Alberto Del Lungo", University of Siena

1999-2004

Master Degree in Mathematics

Level: 110/110 cum laude, University of Siena

Teaching

- Lecturer at University of Pavia, Course: 'Intensive Course of Clinical Bioinformatics', 2022
- Lecturer at University of Siena, Courses: 'Computational Genomics' and 'High-Throughput Sequencing technologies' Master II level in Bioinformatics and Data Science, 2021-2024
- Lecturer at University of Florence Course: 'Computational Cancer Genomics' Master II level in Computational Biomedicine, 2021
- Lecturer at University of Siena, Lecture 'Computational methods for cancer genomics' for the Master degree in 'Biomedical Engineering', 2019
- Visiting professor at University of Siena, Course: 'Laboratorio di Programmazione', aa 2016-17
- Lecturer at Fondazione VITA PROBATO, Course: 'Next-Generation Sequencing and Bioinformatic Analysis', aa 2016-17
- Lecturer at University of Pisa, Lecture 'Current Challenges in Exploiting High-Throughput Sequencing Data' for the Master degree in 'Biomedical Engineering', 2016
- Lecturer at University of Siena. Lecture 'High throughput sequencing and variants detection' for the course of 'Models and languages for bioinformatics' of the Master degree in 'Computer and automation engineering', 2015
- Visiting Professor at Scuola Normale Superiore, Pisa, PhD Course 'Genomica per le Neuroscienze', aa 2014-15
- Lecturer at InterOmics Tutorial Day 2014, Lecture: 'High-Throughput Sequencing and the Human Genome'
- Lecturer at InterOmics Tutorial Day 2013, Lecture: 'RNA-seq, a snapshot of transcriptional activity'

Other experiences and professional commitments:

- 2017-to date: Co-supervisor of 4 MSc Theses in the areas of Bioengineering and Bioinformatics, 4 PhD Theses in the areas of Computational Biology and Bioinformatics and 3 Theses for the Master in Bioinformatics and Data Science.
- 2022-to date: Member of the Faculty Board of the Doctorate in Genetics, Oncology and Clinical Medicine (GenOMeC), University of Siena
- 2022-to date: Principal Investigator of "Computational and Translational Genomics Lab" ((<https://ctglab.github.io/>))
- Ordinary Member of the Bioinformatics Italian Society
- Serving as Referee for the following Scientific Journals: PLOS ONE, Scientific Reports, BMC Genomics, Frontiers in Neuroscience, Frontiers in Bioengineering and Biotechnology, Frontiers in Genetics, Source Code for Biology and Medicine, Algorithms.
- Serving as Review Editor for the following Scientific Journals: Frontiers in Genetics – Computational Genomics section, Frontiers in Molecular Medicine - Bioinformatics and Artificial Intelligence for Molecular Medicine

Funded Projects

- 2023-2025: PRIN 2022 "Computational Methods for Third Generation Cancer Genomics", Role: Unit Coordinator
- 2022-2024: Grant by Regione Toscana: "SI-Markers: Un nuovo modulo di SInLAB basato su AI a supporto del medico per la predizione del decorso clinico nei pazienti di Sclerosi Multipla" Role: Project Coordinator
- 2020-to date: Grant supported by "First Health Pharmaceuticals B.V." (The Netherlands), for the project: "Rare Cancers Genomics". Role: Project Coordinator
- 2020-2023: Bando Ricerca Salute 2018, Regione Toscana: "ColoReCtal cancer SCREENing: focus on omics biomarkers on liquid biopsy and urine (CRC SCREEN)", PC Dr. Marco Peluso (ISPRO), Role: Unit Coordinator
- 2018-2023: AIRC IG 2017 "Third generation cancer genomics", PC Dr. Alberto Magi (Università di Firenze)

Participation to previously granted projects:

- 2017-2019: PRIN 2015 "The role of tandem repeats in neurodegenerative diseases: a genomic and proteomic approach", PC: Prof. Sandra D'Alfonso (Università del Piemonte Orientale)
- 2015-2018: ITT-grant proposal 2015 "Studies on the use of circulating miRNAs as prognostic/predictive biomarkers in prostate cancer, PI Dr. Milena Rizzo (CNR-IFC,Pisa)
- 2015-2018: MIUR "Interomics: Identificazione di biomarcatori per la valutazione del rischio e per la prevenzione delle complicanze dell'obesità: la microflora intestinale", PI: Dr Patricia Iozzo (CNR-IFC,Pisa)
- 2013-2015: ITT-grant proposal 2013 "The isolation and validation of miRNA/mRNA complexes to identify genes and pathways targeted by tumor suppressor miRNAs in prostate cancer cells", PI Dr. Giuseppe Rainaldi (CNR-IFC,Pisa);
- 2014-2015: ARISLA "RepeatALS: Genome-wide analysis of DNA tandem repeats in ALS: the role of Repeatome", PI Prof. Sandra D'Alfonso (Università del Piemonte Orientale)
- 2013-2015: MIUR "Interomics: Development of an integrated platform for the application of 'omic' sciences to biomarker definition and theranostic, predictive and diagnostic profile", PC: Dr. Luciano Milanese (CNR-ITB Milano)

Patents

Mutants of spy0269. WO Patent App. PCT/EP2015/059,772, filed May 5, 2015 and issued Jan 21, 2016

<http://www.google.com/patents/WO2015169773A3?cl=ar>

Dr. D'Aurizio is author/co-author of 50 peer-reviewed publications with an H-index of 19 (i10-index 31) and 2040 tot. citation (Scholar data).

1. Daga, S., Loberti, L., Rollo, G., Adamo, L., Colavecchio, O.A., Brunelli, G., Zguro, K., Tripodi, S.A., Guarnieri, A., Garosi, G., **D'Aurizio, R.**, et al. "Slowly progressive autosomal dominant Alport Syndrome due to COL4A3 splicing variant." *Eur J Hum Genet* (2024). <https://doi.org/10.1038/s41431-024-01706-8>
2. Bottoni, L.; Minetti, A.; Realini, G.; Pio, E.; Giustarini, D.; Rossi, R.; Rocchio, C.; Franci, L.; Salvini, L.; Catona, O.; **D'Aurizio, R.**; et al. "NRF2 activation by cysteine as a survival mechanism for triple-negative breast cancer cells." *Oncogene*, 1–13. 2024 <https://doi.org/10.1038/s41388-024-03025-0>.
3. Repetto, V.; Ceroni, E. G.; and D'Aurizio, R. "Exploring Quantum kernel methods for breast cancer subtyping: a real-world experiment." *Numerical Computations: Theory and Algorithms NUMTA 2023*, 174. 2023.
4. Canovai, M., Evangelista, M., Mercatanti, A. **D'Aurizio R.** et al. "Secreted miR-210-3p, miR-183-5p and miR-96-5p reduce sensitivity to docetaxel in prostate cancer cells." *Cell Death Discov.* 9, 445 (2023). <https://doi.org/10.1038/s41420-023-01696-4>
5. Mercurio, S.; Pozzolini, G.; Baldi, R.; Barilà, S.E.; Pitasi, M.; Catona, O.; **D'Aurizio, R.**; Nicolis, S.K. "Hooked Up from a Distance: Charting Genome-Wide Long-Range Interaction Maps in Neural Cells Chromatin to Identify Novel Candidate Genes for Neurodevelopmental Disorders." *Int. J. Mol. Sci.* 2023, 24, 1164. <https://doi.org/10.3390/ijms24021164>
6. Privitera, F., Trusso, M. A., Valentino, F., Doddato, G., Fallerini, C., Brunelli, G., **D'Aurizio, R.**, Furini, S., Goracci, A., Fagiolini, A., Mari, F., Renieri, A., & Ariani, F. "Heterozygosity for neuronal ceroid lipofuscinosis predisposes to bipolar disorder." *Brazilian Journal of Psychiatry*, 2023 45(1), 11–19. <https://doi.org/10.47626/1516-4446-2022-2650>
7. **D'Aurizio, R.**; Catona, O.; Pitasi, M.; Li, Y.E.; Ren, B.; Nicolis, S.K. "Bridging between Mouse and Human Enhancer-Promoter Long-Range Interactions in Neural Stem Cells, to Understand Enhancer Function in Neurodevelopmental Disease." *Int. J. Mol. Sci.* 2022, 23, 7964. <https://doi.org/10.3390/ijms23147964>
8. Russo, V., Lallo, E., Munia, A., Spedicato, M., Messerini, L., **D'Aurizio, R.**, Ceroni, E.G., Brunelli, G., et al. "Artificial Intelligence Predictive Models of Response to Cytotoxic Chemotherapy Alone or Combined to Targeted Therapy for Metastatic Colorectal Cancer Patients: A Systematic Review and Meta-Analysis" *Cancers* 14, 4012 (2022) <https://doi.org/10.3390/cancers14164012>
9. Gherardini, L., Inzalaco, G., Imperatore, F., **D'Aurizio, R.**, Franci, L., Miragliotta, V., Boccuto, A., Calandro, P., Andreini, M., Tarditi, A., & Chiariello, M. "The FHP01 DDX3X helicase inhibitor exerts potent anti-tumor activity in vivo in breast cancer pre-clinical models". *Cancers*, 13(19), 1–14 (2021).
10. Grieco, G. E., Sebastiani, G., Fignani, D., Brusco, N., Nigi, L., Formichi, C., Licata, G., Bruttini, M., **D'Aurizio, R.**, Mathieu, C., Gysemans, C., Dotta, F. (2021). "Protocol to analyze circulating small non-coding RNAs by high-throughput RNA sequencing from human plasma samples". *STAR Protocols*, 2(3), 100606
11. Marranci A., **D'Aurizio R.**, Rizzo M., Greene CM, Poliseno L. "High-Throughput Identification of miRNA-Target Interactions in Melanoma Using miR-CATCHv2. 0", *Methods in Molecular Biology* 2265, 487-512
12. Forini F., Nicolini G., Kusmic C., **D'Aurizio R.**, Mercatanti A., Iervasi G., Pitto L." T3 Critically Affects the Mhrt/Brg1 Axis to Regulate the Cardiac MHC Switch: Role of an Epigenetic Cross-Talk.", *Cells* 9, 2155 (2020)
13. Grieco G.E., Sebastiani, G., Eandi C.M., Neri G., Nigi L., Brusco N., **D'Aurizio R.** et al. "MicroRNA Expression in the Aqueous Humor of Patients with Diabetic Macular Edema." *Int. J. Mol. Sci.* 21, 7328 (2020)
14. Guzzolino E., Pellegrino M., Ahuja N., Garrity D., **D'Aurizio R.** et al. "miR-182-5p is an evolutionarily conserved Tbx5 effector that impacts cardiac development and electrical activity in zebrafish", *Cell. Mol. Life Sci.* 77, 3215–3229 (2020) doi.org/10.1007/s00018-019-03343-7
15. Ragusa R., Di Molfetta A., **D'Aurizio R.** et al. "Variations of circulating miRNA in pediatric patients with Heart Failure supported with Ventricular Assist Device: a pilot study." *Scientific Reports* 10, 5905 (2020). <https://doi.org/10.1038/s41598-020-62757-7>
16. Fazio S, Berti G, Russo F, Evangelista M, **D'Aurizio R**, Mercatanti A, Pellegrini M, Rizzo M, "The miR-28-5p Targetome Discovery Identified SREBF2 as One of the Mediators of the miR-28-5p Tumor Suppressor Activity in Prostate Cancer Cells", *Cells*, 2020, 9, 354
17. Guzzolino E, Pellegrino M, Ahuja N, Garrity D, **D'Aurizio R** et al., "miR-182-5p is an evolutionarily conserved Tbx5 effector that impacts cardiac development and electrical activity in zebrafish" *Cell. Mol. Life Sci.* , 2019, doi.org/10.1007/s00018-019-03343-7
18. Anselmi G, Giuliani M, Vezzani G, Ferranti R, Gentile M, Cortese M, Amendola D, Pacchiani N, **D'Aurizio R**, Bruno L, Uematsu Y, Merola M, Maion D, "Characterization of pUL5, an HCMV protein interacting with the cellular protein IQGAP1" *Virology* 2019, 540, [doi:10.1016/j.virol.2019.10.018](https://doi.org/10.1016/j.virol.2019.10.018)
19. Corrado L, Genovese L, Mangano E, Croce R, Di Pierro A, Geraci F, Bordoni R, **D'Aurizio R**, Barizzone N, De Marchi F, Mazzini L. "Analysis of DNA tandem repeats in ALS from Whole Genome Sequencing: Role of FRA10Ac1 gene repeat expansion in ALS". *European Journal of Human Genetics*, 2019, 27, 1489-1489
20. E Guzzolino, M Pellegrino, N Ahuja, D Garrity, **R D'Aurizio**, M Groth, et al. "Mir-182-5p is a Conserved Downstream Effector of Tbx5 Involved in Heart Development and Arrhythmia in Zebrafish", *Circulation Research* 125 (Suppl_1) (2019), A602-A602 , doi.org/10.1161/res.125.suppl_1.602
21. Corrado L, Genovese LM, Mangano E, Di Pierro A, Barizzone N, Bordoni R, Geraci F, **D'Aurizio R**, Croce R, De Marchi F, Mazzini L.

- Systematic analysis of the involvement of DNA tandem repeats in Amyotrophic lateral sclerosis from Whole Genome Sequencing data". *European Journal of Human Genetics*, 2019, 27, 313-314).
22. Marranci A, **D'Aurizio R**, Vencken S, Mero S, Guzzolino E, Rizzo M, Pitto L, Pellegrini M, Chiorino G, Greene CM and Poliseno L. "Systematic evaluation of the microRNAome through miR-CATCHv2.0 identifies positive and negative regulators of BRAF-X1 mRNA", *RNA Biology*, 2019, 16:7, 865-878, doi:10.1080/15476286.2019.1600934
 23. E Mini, A Lapucci, G Perrone, **R D'Aurizio**, C Napoli... et al. "RNA sequencing reveals PNN and KCNQ1OT1 as predictive biomarkers of clinical outcome in stage III colorectal cancer patients treated with adjuvant chemotherapy", *International journal of cancer*, 2019, doi:10.1002/ijc.32326
 24. Guzzardi MA, Ali L Ait, **D'Aurizio R**, Rizzo F, Saggese P, Sanguinetti E, Weisz A, Pellegrini M, Iozzo P, "Fetal cardiac growth is associated with in utero gut colonization" *Nutrition Metabolism and Cardiovascular Diseases*, 2019, 292170-176, doi:10.1016/j.numecd.2018.10.005
 25. Schirripa, M., Borelli, B., **D'Aurizio, R.** et al. "Early modifications of circulating microRNAs levels in metastatic colorectal cancer patients treated with regorafenib." *Pharmacogenomics J* 19, 455–464 (2019) doi:10.1038/s41397-019-0075-3
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 30. Genovese LM, Geraci F, Corrado L, Mangano E, **D'Aurizio R**, Bordoni R, Severgnini M, Manzini G, De Bellis G, D'Alfonso S, Pellegrini M. "A Census of Tandemly Repeated Polymorphic Loci in Genic Regions Through the Comparative Integration of Human Genome Assemblies." *Frontiers in genetics*, 2018 9, 155. doi:10.3389/fgene.2018.00155
 31. **D'Aurizio R**, Semeraro R, Magi A. "Using XCAVATOR and EXCAVATOR2 to identify CNVs from WGS, WES, and TS data" *Current Protocols in Human Genetics*, 2018 98, e65. doi:10.1002/cphg.65
 32. Guzzolino E, **D'Aurizio R**, Pellegrino M, Garrity D, Ahujah N, et al. "MIR-182 is a Tbx5 effector during heart development in zebrafish" *Vascular Pharmacology* 2018 103, 58 doi:10.1016/j.vph.2017.12.031
 33. Hammond AM, Kyrou K, Bruttini M, North A, Galizi R, Karlsson X, Kranjc N, Carpi FM, **D'Aurizio R**, Crisanti A, Nolan T "The creation and selection of mutations resistant to a gene drive over multiple generations in the malaria mosquito." *PLoS Genet* 2017 13(10):e1007039 doi:10.1371/journal.pgen.1007039
 34. Mazzarella L, **D'Aurizio R**, Frige G, Guida A, Belloni E, Marino E, Bernard L, Pelicci PG, Magi A. "Genome-wide identification of actionable copy number alterations from targeted sequencing panels with Excavator2" *Annals of Oncology*, 28,suppl_7,2017,mdx508.002, doi:10.1093/annonc/mdx508.002
 35. Bascetta L, Oliviero A, **D'Aurizio R**, Evangelista M, Mercatanti A, Pellegrini M, Marrocolo F, Bracarda S, Rizzo M. "The Prostate Cancer Cells Resistant to Docetaxel as in vitro Model for Discovering MicroRNAs Predictive of the Onset of Docetaxel Resistance." *Int. J. Mol. Sci.* 2017, 18, 1512, doi:10.3390/ijms18071512
 36. Magi A, Semeraro R, Mingrino A, Giusti B, **D'Aurizio R**. "Nanopore sequencing data analysis: state of the art, applications and challenges" *Briefings in Bioinformatics* 2017, bbx062, doi:10.1093/bib/bbx062
 37. Vitiello M, Tuccoli A, **D'Aurizio R**, Sarti S, Giannecchini L, et al "Context-dependent miR-204 and miR-211 affect the biological properties of amelanotic and melanotic melanoma cells." *Oncotarget* 2017, 8(15), 25395-25417. doi:10.18632/oncotarget.15915
 38. Siena E, **D'Aurizio R**, Riley D, Tettelin H, Guidotti S, Torricelli G, Moxon ER, Medini D. "In- silico prediction and deep-DNA sequencing validation indicate phase variation in 115 Neisseria meningitidis genes." *BMC Genomics* 2016, 17:843 doi:10.1186/s12864-016-3185-1
 39. **D'Aurizio R**, Pippucci T, Tattini L, Giusti B, Pellegrini M, Magi A. "Enhanced copy number variants detection from whole-exome sequencing data using EXCAVATOR2". *Nucleic Acids Research*, 2016 44 20, e154 doi:10.1093/nar/gkw6957
 40. Mini E, **D'Aurizio R**, Perrone G, Magi A, Lapucci A, Tassi R, Napoli C, Picariello L, Landini I, Nobili S. "RNA sequencing reveals a distinct transcriptomic profile predictive of clinical outcome in stage III colorectal cancer patients treated with adjuvant chemotherapy." *European Journal of Cancer* 2016; 61, S199. doi: 10.1016/S0959-8049(16)61705
 41. Forini F, **D'Aurizio R**, Kusmic C, Nicolini G, Baumgart M, Groth M, Ucciferri N, Iervasi G, Pitto L. "A high-throughput approach unveils putative miRNA-mediated mitochondria-targeted cardioprotective circuits activated by T3 in the post ischemia reperfusion setting." *Cardiovascular Research* 2016; 111 (suppl 1), S92-S116
 42. Guzzolino E, Hatcher C, **D'Aurizio R**, Groth M, Baumgart M, Mercatanti A, Russo F, Mariani L, Magliaro C, Pitto L. "Role of miR-182 in zebrafish and mouse models of Holt-Oram syndrome." *Cardiovascular Research* 2016; 111 (suppl 1), S16-S42
 43. **D'Aurizio R**, Russo F, Chiavacci E, Baumgart M, Groth M, D Onofrio M, Arisi I, Rainaldi G, Pitto L and Pellegrini M. "Discovering miRNA regulatory networks in Holt-Oram Syndrome using a Zebrafish model." *Front. Bioeng. Biotechnol.* 2016;4:60. doi: 10.3389/fbioe.2016.0006
 44. Chiavacci E, **D'Aurizio R**, Guzzolino E, Russo F, Baumgart M, Groth M, Mariani L, D Onofrio M, Arisi I, Pellegrini M, Cellerino A, Cremisi F, Pitto L. "MicroRNA 19a replacement partially rescues fin and cardiac defects in zebrafish model of Holt-Oram syndrome." *Scientific Reports* 2015;5:18240. doi:10.1038/srep18240
 45. Bergamini E, **D'Aurizio R**, Leoncini M, Pellegrini M. "CNVScan: detecting borderline copy number variations in NGS data via scanstatistics." *Proc 6th ACM Conf Bioinformatics, Comput Biol Heal Informatics*:335-344. doi:0.1145/2808719.2808754
 46. Tattini L, **D'Aurizio R**, Magi A. "Detection of Genomic Structural Variants from Next-Generation Sequencing Data." *Frontiers in Bioeng*

- and *Biotech* 2015;3:92 doi:10.3389/fbioe.2015.00092
47. Schirripa M, Loupakis F, Cremolini C, Polisenio L, Salvatore L, Tuccoli A, Antoniotti C, **D'Aurizio R**, et al. "Circulating microRNAs in metastatic colorectal cancer (mCRC) patients (pts) treated with regorafenib." *Ann Oncol* 2015, 26(suppl 4):i v57 iv57. doi:10.1093/annonc/mdv233.196
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 49. Magi A, **D'Aurizio R**, Palombo F, Cifola I, Tattini L, Semeraro R, Pippucci T, Giusti B, Romeo G, Abbate R, Gensini GF, "Characterization and identification of hidden rare variants in the human genome." *BMC Genomics*. 2015 Apr 24;16(1):340 doi:10.1186/s12864-015-1481-9
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 53. Cortese M, Calo S, **D'Aurizio R**, Lilja A, Pacchiani N, Merola M. "Recombinant Human Cytomegalovirus (HCMV) RL13 from TR and Merlin strains are human immunoglobulin Fc binding proteins." *PLoS ONE* 7(11) doi:10.1371/journal.pone.0050166
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Ai sensi del Regolamento UE 2016/679 e del d.lgs. 196/2003 aggiornato al d.lgs. n. 101 del 10 agosto 2018