



Giuseppe Tarantino

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Italian

Date of birth: 11/04/1991



RESEARCH EXPERIENCE

03/11/2016–today	<i>PhD</i> student at “Giorgio Prodi” Interdepartmental Center for Cancer Research - CIRC. Department of Specialised, Experimental, and Diagnostic Medicine
02/11/2015–today	<i>Research Fellow</i> at “Giorgio Prodi” Interdepartmental Center for Cancer Research - CIRC. Bioinformatician and Data Analyst for the characterization through next generation sequencing of adult rare sarcomas.

EDUCATION

2015	MSc in Bioinformatics (Magna Cum Laude), international degree of the University of Bologna. Thesis: “Molecular modelling studies and cell-based assays to evaluate (anti)-androgenic activity of cannabinoids.” Supervisor: Prof. Elisa Michelini
2013	BSc in Biotechnology, University of Palermo Thesis: “Molecular modelling and virtual High Throughput Screening for the identification of new Dicloroacetate’s derivate.” Supervisor: Prof. Anna Maria Almerico

COURSES AND CERTIFICATIONS

- Stanford University: Machine Learning online course – Professor Andrew Ng
- Lipari School on Computational Life Science - Computational Immunology, Immunotherapy and autoimmune disease
- Bologna 15th Bioinformatics Winter School (Bioinformatics for Biological complexity)
- Training Course Illumina per la piattaforma NextSeq500

SUMMARY OF QUALIFICATION

Proficient in Python and R programming languages. Basic knowledge of Php, html5 and MySQL.

Expert in the analysis of Big Data obtained through massive sequencing (Whole exome sequencing and RNAsequencing) of oncological samples and in particular of rare tumors.

Efficient in the development of “docking” studies to evaluate the interaction between proteins and small molecules.

Skilled in the development of new bioinformatic pipelines and in the development of machine learning methods to decode the behavior of complex biological systems.

AWARDS

- 2016 Grant “Giovanna Fatato” – No profit organization “Corri con Giò” for young researchers engaged in oncology research.

- 2014 Awarded as one of the best students of the school of science of the University of Bologna

PUBLICATIONS in extenso peer reviewed articles

Author of 14 Peer Reviewed Articles, H-index = 4 (source Scopus), three of these derive from national collaborations on the theme of rare tumors with the National Institute of Tumors in Milan and one from an international collaboration with the Knight Cancer Institute of Portland.

Tarantino, Giuseppe*; Nannini, Margherita*; Indio, Valentina; Ravegnini, Gloria ; Astolfi, Annalisa; Urbini, Milena; De Leo, Antonio ; Santini, Donatella; Ceccarelli, Claudio; Gruppioni, Elisa; Altimari, Annalisa; Castellucci, Paolo; Fanti, Stefano; Di Scioscio, Valerio; Saponara, Maristella; Gatto, Lidia; Pession, Andrea; Martelli, Pier Luigi; Casadio, Rita; Pantaleo, Maria. *Molecular modeling evaluation of exon 18 His845_Asn848delinsPro PDGFRA mutation in a GIST patient responding to imatinib*. Scientific Reports. **IF= 4.122**

Indio, V.; Astolfi, A.; Tarantino, G.; Urbini, M.; Patterson, J.; Nannini, M.; Saponara, M.; Gatto, L.; Santini, D.; do Valle, I.F.; Castellani, G.; Remondini, D.; Fiorentino, M.; von Mehren, M.; Brandi, G.; Biasco, G.; Heinrich, M.C.; Pantaleo, M.A. *Integrated Molecular Characterization of Gastrointestinal Stromal Tumors (GIST) Harboring the Rare D842V Mutation in PDGFRA Gene*. *Int. J. Mol. Sci.* 2018, 19, 732. **IF=3.68**

Cevenini L, Calabretta MM, Tarantino G, Michelini E, Roda A. *Smartphone-interfaced 3D printed toxicity biosensor integrating bioluminescent "sentinel cells"*. *Sensors and Actuators B: Chemical* 225, 249-257 **IF=5.667**

Durante S, Vecchiarelli S, Astolfi A, Grassi E, Casadei R, Santini D, Panzacchi R, Ricci C, Serravalle S, Tarantino G, Falconi M, Teti G, Indio V, Pession A, Minni F, Biasco G, Di Marco M. *Copy number gain of chromosome 3q is a recurrent event in patients with intraductal papillary mucinous neoplasm (IPMN) associated with disease progression*. *Oncotarget*. 2016 Aug 22. **IF=5.168**

Masetti R, Castelli I, Astolfi A, Bertuccio SN, Indio V, Togni M, Belotti T, Serravalle S, Tarantino G, Zecca M, Pigazzi M, Basso G, Pession A, Locatelli F. *Genomic complexity and dynamics of clonal evolution in childhood acute myeloid leukemia studied with whole-exome sequencing*. *Oncotarget*. 2016 Jul 22. **IF=5.168**

Cevenini L, Calabretta MM, Lopreside A, Tarantino G, Tassoni A, Ferri M, Roda A, Michelini E. *Exploiting NanoLuc luciferase for smartphone-based bioluminescence cell biosensor for (anti)-inflammatory activity and toxicity*. *Analytical and Bioanalytical Chemistry* **IF=3.307**

Pantaleo MA, Urbini M, Indio V, Ravegnini G, Nannini M, De Luca M, Tarantino G, Angelini S, Gronchi A, Vincenzi B, Grignani G, Colombo C, Fumagalli E, Gatto L, Saponara M, Ianni M, Paterini P, Santini D, Pirini MG, Ceccarelli C, Altimari A, Gruppioni E, Renne SL, Collini P, Stacchiotti S, Brandi G, Casali PG, Pinna AD, Astolfi A, Biasco G. *Genome-wide Analyses Identifies MEN1 and MAX Mutations and a Neuroendocrine-like Molecular Heterogeneity in Quadruple WT GIST*. *Mol Cancer Res*. 2017 Jan 27. **IF=4.597**

Urbini M, Astolfi A, Pantaleo MA, Serravalle S, Dei Tos AP, Picci P, Indio V, Sbaraglia M, Benini S, Righi A, Gambarotti M, Gronchi A, Colombo C, Dagrada GP, Pilotti S, Maestro R, Polano M, Saponara M, Tarantino G, Pession A, Biasco G, Giovanni Casali P, Stacchiotti S. *HSPA8 as a novel fusion partner of NR4A3 in extraskeletal myxoid chondrosarcoma*. *Genes Chromosomes Cancer*. 2017 Apr. **IF=3.362**

Milena Urbini, Annalisa Astolfi, Valentina Indio, Giuseppe Tarantino, Salvatore Serravalle, Maristella Saponara, Margherita Nannini, Alessandro Gronchi, Marco Fiore, Roberta Maestro, Monica Brenca, Angelo Paolo Dei Tos, Gian Paolo Dagrada, Tiziana Negri, Silvana Pilotti, Paolo Giovanni Casali, Guido Biasco, Andrea Pession, Silvia Stacchiotti and Maria Abbondanza Pantaleo. *Identification of SRF-E2F1 fusion transcript in EWSR-negative myoepithelioma of the soft tissue*. Oncotarget. 2017 May **IF=4.67**

Chiara Colombo, Milena Urbini, Annalisa Astolfi, Paola Collini, Valentina Indio, Antonino Belfiore, Nicholas Paielli, Federica Perrone, Giuseppe Tarantino, Elena Palassini, Marco Fiore, Andrea Pession, Silvia Stacchiotti, Maria Abbondanza Pantaleo, Alessandro Gronchi. *Novel intra-genic large deletions of CTNNB1 gene identified in WT desmoid-type fibromatosis*. Genes Chromosomes Cancer. 2018;1–9. **IF=3.362**

Grassi E, Durante S, Astolfi A, Tarantino G, Indio V, Freier E, Vecchiarelli S, Ricci C, Casadei R, Formica F, Filippini D, Comito F, Serra C, Santini D, D'Errico A, Minni F, Biasco G, Di Marco M. Mutational burden of resectable pancreatic cancer, as determined by whole transcriptome and whole exome sequencing, predicts a poor prognosis. Int J Oncol. 2018 Jun;52(6):1972-1980. **IF=3.333**

Urbini, M. Indio, V. Astolfi, A. Tarantino, G. Renne, S.L. Pilotti, S. Dei Tos, A.P. Maestro, R. Collini, P. Nannini, M. Saponara, M. Murrone, L. Dagrada, G.P. Colombo, C. Gronchi, A. Pession, A. Casali, P.G. Stacchiotti, S. Pantaleo, M.A. *Identification of an Actionable Mutation of KIT in a Case of Extraskeletal Myxoid Chondrosarcoma*. Int. J. Mol. Sci. 2018, 19, 1855. **IF=3.687**

Milena Urbini, Margherita Nannini, Annalisa Astolfi, Valentina Indio, Valentina Vicennati, Matilde De Luca, Giuseppe Tarantino, Federica Corso, Maristella Saponara, Lidia Gatto, Donatella Santini, Guido Di Dalmazi, Uberto Pagotto, Renato Pasquali, Andrea Pession, Guido Biasco, and Maria A. Pantaleo. *Whole Exome Sequencing Uncovers Germline Variants of Cancer-Related Genes in Sporadic Pheochromocytoma*. International Journal of Genomics, vol. 2018, Article ID 6582014, 9 pages, 2018. **IF=1.904**

Maria Rosaria Sapienza, Francesco Abate, Federica Melle, Stefania Orecchioni, Fabio Fuligni, Maryam Etebari, Valentina Tabanelli, Maria Antonella Laginestra, Alessandro Pileri, Giovanna Motta, Maura Rossi, Claudio Agostinelli, Elena Sabattini, Nicola Pimpinelli, Mauro Truni, Brunangelo Falini, Lorenzo Cerroni, Giovanna Talarico, Rossana Piccioni, Stefano Amente, Valentina Indio, Giuseppe Tarantino, Francesco Brundu, Marco Paulli, Emilio Berti, Fabio Facchetti, Gaetano Ivan Dellino, Francesco Bertolini, Claudio Tripodo, Raul Rabadan, Stefano A. Pileri. *Blastic plasmacytoid dendritic cell neoplasm: genomics mark epigenetic dysregulation as a primary therapeutic target*. haematol.2018.202093. **IF=9.09**

PUBLICATIONS under review

Giuseppe Tarantino¥, Maria A. Pantaleo¥, Claudio Agostinelli, Milena Urbini, Margherita Nannini, Maristella Saponara, Chiara Castelli, Silvia Stacchiotti, Lidia Gatto, Donatella Santini, Antonio De Leo, Andrea Pession, Valentina Indio*, Annalisa Astolfi1*. *Immune microenvironment profiling of gastrointestinal stromal tumors (GIST) show gene expression patterns associated to immune checkpoint inhibitors response*.

SCIENTIFIC CONGRESSES

-EUSARC 2018 - Abstract: Immune microenvironment profiling of gastrointestinal stromal tumors. Tarantino G, Astolfi A, Indio V, Agostinelli C, Urbini M, Nannini M, Saponara M, Castelli C, Stacchiotti S, Gatto L, Santini D, De Leo A, Pession A, Pantaleo MA.

-XLIII CONGRESSO NAZIONALE AIEOP 2018

-ASCO 2018 - Abstract: Immune microenvironment profiling of gastrointestinal stromal tumors (GIST). Maria A. Pantaleo, Valentina Indio, Giuseppe Tarantino, Claudio Agostinelli, Milena Urbini, Margherita Nannini, Maristella Saponara, Chiara Castelli, Silvia Stacchiotti, Lidia Gatto, Donatella Santini, Antonio De Leo, Andrea Pession, Annalisa Astolfi.

-ASCO 2018 - Abstract: Characterization of tumor microenvironment in extraskeletal myxoid chondrosarcoma (EMC). Valentina Indio, Annalisa Astolfi, Giuseppe Tarantino, Milena Urbini, Chiara Castelli, Salvatore Lorenzo Renne, Paola Collini, Alessandro Gronchi, Chiara Colombo, Anna Maria Frezza, Roberta Maestro, Angelo Paolo Dei Tos, Piero Picci, Paolo Giovanni Casali, Andrea Pession, Maria A. Pantaleo, Silvia Stacchiotti.

-ASCO 2018 - Abstract: Identification of novel intra-genic deletions of CTNNB1 gene in WT desmoid-type fibromatosis. Milena Urbini, Annalisa Astolfi, Paola Collini, Valentina Indio, Antonino Belfiore, Nicholas Paielli, Federica Perrone, Giuseppe Tarantino, Elena Palassini, Marco Fiore, Andrea Pession, Silvia Stacchiotti, Maria A. Pantaleo, Alessandro Gronchi, Chiara Colombo.

-ASCO 2018 - Abstract: Identification of an actionable mutation of KIT in extraskeletal myxoid chondrosarcoma (EMC). Milena Urbini, Valentina Indio, Annalisa Astolfi, Giuseppe Tarantino, Salvatore Lorenzo Renne, Silvana Pilotti, Angelo Paolo Dei Tos, Roberta Maestro, Alessandro Gronchi, Gianpaolo Dagrada, Paola Collini, Monica Brenca, Chiara Colombo, Anna Maria Frezza, Andrea Pession, Paolo Giovanni Casali, Silvia Stacchiotti, Maria A. Pantaleo.

-ASCI 2017 - Abstract: In silico immunological profile of gastrointestinal stromal tumors. Valentina Indio, Annalisa Astolfi, Giuseppe Tarantino, Milena Urbini, Margherita Nannini, Maristella Saponara, Lidia Gatto, Guido Biasco, Maria Abbondanza Pantaleo.

-THE IMPACT OF GENOMIC DEEP SEQUENCING ON PAEDIATRIC RESEARCH AND CLINICAL PRACTICE 2015.

PROJECTS FUNDED

-NATO-SPS: 2016-“Cell Biosensors for Detection of Chemical and Biological Threats”

REFERENCES

Prof.ssa Rita Casadio, Professore ordinario Università di Bologna, Dipartimento di Farmacia e Biotecnologie. Email: rita.casadio@unibo.it Biocomputing lab, via San Giacomo 9/2- 40126 Bologna Tel. +39 0512094005

Prof.ssa Maria Abbondanza Pantaleo, Professoressa associata Università di Bologna, Dipartimento di Medicina Specialistica, Diagnostica e Sperimentale. Email: maria.pantaleo@unibo.it, via massarenti 9 Tel. +39 0516364043