



PERSONAL INFORMATION

FOCACCEZZI CHIARA

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07/01/1978, Roma (RM)

WORK EXPERIENCE

- December 17, 2021 – present: **Researcher R.T.D. lettera B**, SSD MED/04, at Università degli Studi di Roma Tor Vergata, Facoltà di Medicina, Dipartimento di Scienze Cliniche e Medicina Traslazionale, Via Montpellier 1, 00133, Roma;
- September 01, 2019 – December 16, 2021: **Researcher R.T.D. lettera A**, SSD MED/04, at Università Telematica San Raffaele Roma, Via di Val Cannuta 247, 00166 Roma;
- September 01, 2018 – August 31, 2019: **Full professor** at M.I.U.R. Istituto Istruzione Superiore “M. Amari – P. Mercuri”, Via Romana 11/13, Ciampino (RM);
- February 01, 2017 – August 03, 2018: **Assegnista di ricerca** (categoria B tipo 2, area 06 "Scienze Mediche", Macrosettore: 06/N; Settore Concorsuale: 06/N1) at Immunology Unit - Dipartimento di Medicina Interna e Specialità Mediche, Sapienza Università di Roma - Policlinico Umberto I, Viale del Policlinico 155 - 00161 Roma (RM), Supervisor Prof. V. Barnaba;
- 2016 - present: **External Scientific Member** for **Organismo Preposto al Benessere Animale** at Plaisant s.r.l., evaluator of scientific projects that use animal models prior to submission for the ministerial authorization (D.L. 24 March 2014, n. 26);
- June 01, 2016 – November 30, 2016: **Researcher** for Fondazione Francesco Balsano at Immunology Unit - Dipartimento di Medicina Interna e Specialità Mediche, Sapienza Università di Roma - Policlinico Umberto I, Viale del Policlinico 155 - 00161 Roma (RM); Supervisor Prof. V. Barnaba;
- June 01, 2015 – May 31, 2016: **Post-Doc Fellow Fondazione Umberto Veronesi** at Immunology Unit - Dipartimento di Medicina Interna e Specialità Mediche, Sapienza-Università di Roma - Policlinico Umberto I, Viale del Policlinico 155 - 00161 Roma (RM); Supervisor Prof. V. Barnaba;
- 2014: Registration at the national register of biologists, O.N.B., Sezione A, AA_070306;
- October 15, 2012 – May 31, 2015: **Researcher** for Fondazione Francesco Balsano at Immunology Unit - Dipartimento di Medicina Interna e Specialità Mediche, Sapienza-Università di Roma - Policlinico Umberto I, Viale del Policlinico 155 - 00161 Roma (RM); Supervisor Prof. V. Barnaba;
- July 05, 2012 – October 14, 2012: **Post-Doc Fellow** at Arcispedale Santa Maria Nuova, Istituto in Tecnologie Avanzate e Modelli Assistenziali in Oncologia IRCCS, Viale Risorgimento, 80, 42100 Reggio Emilia (RE); Supervisor Prof.ssa A. Albini;
- March 16 – July 04, 2012: **Researcher** for Fondazione MultiMedica ONLUS, Polo Scientifico Tecnologico - Via G. Fantoli 16/15, 20138 Milano (MI), Supervisor Prof.ssa A. Albini;
- September 16, 2011– March 07, 2012: **Researcher** for IRCCS MultiMedica, Polo Scientifico Tecnologico - Via G. Fantoli 16/15, 20138 Milano (MI), Supervisor Prof.ssa A. Albini;
- February 02, 2009 – August 03, 2011: **Post-Doc Fellow** at MultiMedica Holding S.p.A., Polo Scientifico Tecnologico - Via G. Fantoli 16/15, 20138 Milano (MI), Supervisor Prof.ssa A. Albini;
- December 01, 2008 – January 01, 2009: **Assegnista di ricerca** (art. 51, c. 6, legge 449/1997) at Dipartimento di Biologia Laboratorio di Patologia Generale e Molecolare, Facoltà di Scienze Matematiche, Fisiche e Naturali, Università degli Studi di Roma Tor Vergata, Via della Ricerca Scientifica s.n.c., 00133 Roma (RM); Supervisor Dott.ssa C. Montesano;
- November 01, 2007 – November 30, 2008: **Collaborator free of charge** at Dip. di Medicina Sperimentale e Scienze Biochimiche and at Centro Interdipartimentale – Stazione per la Tecnologia Animale, Facoltà di Medicina, Università degli Studi di Roma Tor Vergata, Via Montpellier 1, 00133 Roma (RM), Supervisors Prof. R. Bei, Prof. M. Mattei;

- October 09, 2006 – September 15, 2007: **Research Assistant** at Institute of Human Virology IHV, sez. Basic Science, University of Maryland, School of Medicine Baltimore, MD, USA; Supervisor Prof. C. D. Pauza;
- 17/01/2005: **Qualification to the profession of biologist**, Università degli Studi di Roma Tor Vergata;
- November 01, 2004 – October 08, 2006: **PhD Student** at Centro Interdipartimentale – Stazione per la Tecnologia Animale and at Dip. di Medicina Sperimentale e Scienze Biochimiche, Facoltà di Medicina, Università degli Studi di Roma Tor Vergata, Via Montpellier 1, 00133 Roma (RM), Responsabili Prof. M. Mattei e Prof. R. Bei;
- October 20, 2003 – October 19, 2004: **Researcher** for Tecnofarmaci S.C.p.A. at Centro Interdipartimentale – Stazione per la Tecnologia Animale, Università degli Studi di Roma Tor Vergata, Via Montpellier 1, 00133 Roma (RM); Supervisor Prof. M. Mattei;
- September 01, 2001 – March 01, 2002: **Erasmus Student** at Institute of Human Genetics, The Bartholin Building, University of Aarhus, Wilhelm Meyers Allé, DK-8000 Aarhus C, Denmark; Supervisor Dott.ssa L. L. Hansen.

EDUCATION AND TRAINING

- October 2011 – July 2017: **Clinical Biochemistry Specialty School Specialized** (area non medica), Università degli Studi di Tor Vergata, Policlinico Tor Vergata PTV, Viale Oxford 81, 00133 Roma (RM). Thesis: “Role of IL-18 and of IL-18 Receptor on CD8+ T cells in Non-Small Cell Lung Cancer patients. Biomarker or immune checkpoint inhibitor assistant”. Score **50/50 cum laude**.
- January 2013 – July 2013: **High School teaching qualification** obtained with TFA qualifying course (Tirocinio Formativo Attivo, D.M. 249/2010), class A050-Natural Sciences (DPR 14 February 2016, n.19, ex-A060), Università degli Studi di Tor Vergata, Via della Ricerca Scientifica, 1 – 00133 Roma (RM). Score **98/100**.
- November 2004 – October 2007: **Immunology PhD**, Laboratory of General Pathology and Animal Facility, Facoltà di Medicina, Università degli Studi di Roma Tor Vergata, Via Montpellier 1, 00133 Roma (RM). Thesis “Active immunotherapy inhibition of cancerogenesis process in breast tumor originated in ErbB2/neu transgenic mouse model”.
- September 2001 – March 2002: **Erasmus Student** at University of Aarhus, DK-8000 Aarhus C, Denmark.
- November 1997 - November 2003: **Biological Sciences Degree** (v.o. 5 anni), Laboratory of General and Molecular Pathology, Dip. di Biologia, Facoltà di Scienze Matematiche, Fisiche e Naturali, Università degli Studi di Roma Tor Vergata Via della Ricerca Scientifica s.n.c., 00177, Roma. Thesis “Study of ErbB family receptors in human tumors as target in immunotherapy protocols”. Score **110/110 cum laude**.

COURSES AND CERTIFICATIONS

- 19-23 March 2012: Advanced Course “Flow cytometry, level II: advanced diagnostic and research applications”, Università degli Studi di Milano;
- 16 November 2011: Course “Biotechnologies and Medicine”, CISEF – Centro Internazionale di Studi e Formazione Germana Gaslini, c/o IRCCS MultiMedica, Sesto S. Giovanni (MI);
- 11-15 July 2011: Course “Rome Course Syllabus – Bench to Bedside Translational Molecular Medicine”, Istituto Superiore di Sanità – George Mason University, Roma;
- 8 - 10 June 2011: Course “Statistic in Biomedic Research”, CNR - European Brain Research Institute, Roma;
- 11 May 2011: Mini Master “Cardio-Oncology”, 42° National Congress of Cardiology ANMCO 2011, Firenze, Fortezza da Basso;
- 29 September – 1 October 2010: Theoretical practical course “Stem Cells”, Scuola Nazionale di Citometria – XXVIII Conferenza Nazionale di Citometria, Università degli Studi di Urbino;
- 22 – 23 June 2009: Theoretical practical course “Molecular Imaging in Drug Discovery and Preclinical Development”, Università di Milano e European Network of Excellence Diagnostic Molecular Imaging (DiMI), Milano;
- 10-12 February 2009: Course “Operator Training on BD FACS Canto II e BD DiVa 6.1.1”, Becton Dickinson Biosciences, Buccinasco (Mi);
- 02 February 2009 – 03 August 2011: Theoretical and Practical Training Course “Training of expert research in functional imaging, genomics and proteomics applied to the development of innovative strategies for cancer prevention, diagnosis and treatment”, Training Course financed by Ministry of Education and Research (M.I.U.R.) according to the Art. 12 del D.M. 593 dell’8 august 2000. IRCCS MultiMedica, Polo Scientifico Tecnologico - Via G. Fantoli 16/15, 20138 Milano;
- November 2007: Training Course “Laboratory Animal Sciences”, Centro Europeo di Ricerca sul Cervello (C.E.R.C./E.B.R.I) / Fondazione Santa Lucia di Roma;
- March – April 2006: Course “Basic statistic course for biomedicine PhD students”, Università degli Studi di Roma Tor Vergata.

ATTIVITA' DIDATTICA

- **Lecturer of the Master’s Degree Course:**
 - AA 2020-2021: “Scienze e tecniche delle attività motorie preventive e adattate” (LM67), teaching “Corretti stili di vita”, SSD MED/04; Università Telematica San Raffaele, Roma
 - AA 2019-2020: “Scienze e tecniche delle attività motorie preventive e adattate” (LM67), teaching “Corretti stili di vita”, SSD MED/04; Università Telematica San Raffaele, Roma
- **“Cultore della materia” of the Master’s Degree Course:**
 - AA 2020-2021: “Scienze della Nutrizione Umana” (LM61), combined teaching “Intolleranze alimentari, Immunità e Farmaci”, Module SSD MED/04; Università Telematica San Raffaele, Roma
 - AA 2019-2020: “Scienze della Nutrizione Umana” (LM61), combined teaching “Intolleranze alimentari, Immunità e Farmaci”, Module SSD MED/04; Università Telematica San Raffaele, Roma
- **Lecturer in PhD Programmes:**
 - AA 2020 – 2021: “Tissue engineering and remodeling biotechnologies for body function” (Cycle XXIV, XXXV, XXXVI), Università degli Studi di Roma Tor Vergata;
 - AA 2020 – 2021: “Molecular Medicine” (Cycle XXXVI), Università degli studi di Roma “La Sapienza”
- **Thesis committee:**
 - AA 2019-2020: Bachelor’s Degree in Scienze Motorie (L22), Università Telematica San Raffaele Roma;
 - AA 2019-2020: Bachelor’s Degree in Scienze Motorie, (L22 indirizzo Calcio), Università Telematica San Raffaele Roma;
 - AA 2019-2020; AA 2020-2021: Master’s Degree in Scienze e tecniche delle attività motorie preventive e adattate (LM67), Università Telematica San Raffaele Roma;
 - AA 2019-2020; AA 2020-2021: Master’s Degree in Scienze della Nutrizione Umana (LM61), Università Telematica San Raffaele Roma;
 - AA 2019-2020; AA 2020-2021: Master’s Degree in Scienze della Nutrizione Umana (LM61 indirizzo Nutraceutica), Università Telematica San Raffaele Roma;
- **Thesis Supervisor:**
 - AA 2019-2020; AA 2020-2021: Master’s Degree in Scienze e Tecniche delle Attività Motorie Preventive e Adattate (LM67), Università Telematica San Raffaele Roma;
- **Thesis Co-Supervisor:**
 - AA 2019-2020 - present: Master’s Degree in Scienze della Nutrizione (LM61); Università Telematica San Raffaele Roma;
 - AA 2019-2020 - present: Master’s Degree in Scienze e Tecniche delle Attività Motorie Preventive e Adattate (LM67), Università Telematica San Raffaele Roma;
 - AA 2020-2021-present: Master’s Degree in Biotechnological Sciences, Università degli Studi di Roma Tor Vergata, Università Telematica San Raffaele Roma;
- **Member of University Boards:**
 - AA 2019-2020 – present: member of the “Commissione Paritetica Docenti-Studenti”, Università Telematica San Raffaele Roma;
 - AA 2019-2020 – present: member of the “Commissione Riconoscimenti” at the Master’s Degree in Scienze e Tecniche delle Attività Motorie Preventive e Adattate (LM67), Università Telematica San Raffaele Roma;
 - AA 2020-2021: member of the Quality Assurance Group (AQ), Università Telematica San Raffaele Roma;
 - AA 2020-2021: member of the Working Group for the preparation of the University Strategic Plan 2021/2023, Università Telematica San Raffaele Roma;
- October 2019, **Lecturer in the Course** “Benessere degli Animali da Laboratorio e Metodi Alternativi alla Sperimentazione Animale”, Istituto Zooprofilattico Sperimentale Lazio e Toscana M. Aleandri, Sede di Roma e CIMETA, Università degli Studi di Roma Tor Vergata.

PERSONAL SKILLS AND COMPETENCES

Languages Skills

-Listening Skills
-Reading Skills
-Writing Skills
-Speaking Skills

ITALIAN

Mother Tongue- C2
Mother Tongue- C2
Mother Tongue- C2
Mother Tongue- C2

ENGLISH

Excellent-C1
Excellent-C1
Excellent-C1
Excellent-C1

SPANISH

Beginner-A1
Beginner-A1
Beginner-A1
Beginner-A1

Digital Skills

-Communicating
-Handling information and content

Intermediate
Intermediate

-Transacting	Intermediate
-Problem solving	Intermediate
-Being safe and legal online	Intermediate

Relational and Organizational Skills

- Excellent ability of team working and sharing of common spaces and devices, respecting the good laboratory practices and colleagues.
- Flexible to different type of work and very collaborative
- Excellent capability to work in a multicultural environment, skilled during study/job experiences abroad and in various laboratories in Italy;
- Excellent organizational, coordination and work planning skills;
- Good planning and management skills of databases containing large amounts of data.

Technical Skills and Competences

- ANIMAL MODELS. MOUSE: enlargement, control and screening of outbred, inbred or transgenic mice colonies; necropsy, blood and organs recovery, preparation of organs homogenate and cells cultures from blood, spleen, lymph node, bone marrow and peritoneal cavity; per os, intra peritoneal (i.p.), endovena (e.v.), sub cute (s.c.), intra muscular (i.m.) administrations; in vivo tumor growth assay (suc cute, i.p. and tail vein assay of cancer metastasis); DNA purification from tail, DCs cultures and differentiation from bone marrow. RABBIT: immunization and bleeding for polyclonal antibody production. ZEBRAFISH: Familiar with fish and tank maintenance.
- CELLULAR AND MOLECULAR BIOLOGY. Flow cytometry (FACSCalibur, FACSCanto e LSR Fortessa, BD), membrane and intracellular staining combining up to 13 fluorochromes, viability, apoptosis and cell cycle analysis, ROS detection assay, Acridine Orange acid vesicles assay, mitochondrial membrane potential assay ($\Delta\Psi$), cell proliferation, familiar with BD Cell Sorter FACS ARIA II; Sterility working; Primary and stabilized healthy and tumoral cell cultures, cancer stem cell cultures, cell culture preparation from fresh peripheral blood, buffycoat or frozen cells of healthy and HIV/HBV/HCV positive subjects (human and monkey); T Cell Cloning; Lymphocytes population purification using Miltenyi magnetic beads; DNA/RNA extraction with classic extraction protocol and Qiagen extraction kit; Nucleic Acid quantification; Retro Transcription; PCR on blood and tissue samples; Cloning; Sequencing; ELISA, Elispot; Western-Blot; Immunoprecipitation; Immunohistochemistry; Immunofluorescence; Cell proliferation and citotoxicity assay (MTT, LDH, SRB); β -gal senescence assay; Soft agar assay; Cell migration assay, morphogenesis, chemoinvasion assay.
- SOFTWARE KNOWLEDGE. Office; flow cytometry analysis software (FlowJo, CellQuest, Diva, ModFit); ImageJ; GraphPad Prism; sequence analysis software (Sequencer, MacClade, MacVector, Genescan, Genotyper); Endnote; web browsing.

Other Skills

- **Volunteer** for the AIRC fundraising events for research “Arance della Salute”, at IRCCS Multimedica (MI), 2010, 2011, 2012;
- **Collaborator** in the organization of the event 1° EMBL Monterotondo International PhD Students Minisymposium, “Animal Model – Tips and Tricks from Nature”, 12-14 May 2005, Roma.

RESEARCH ACTIVITIES

- **Oncology/Cancer Biology:** In vivo and in vitro analysis of the effects of drugs and/or molecules with antitumor activity; Tumor immunotherapy; Analysis of tumor infiltrating CD8 and NK T cells; Analysis of the causes of cardiac toxicity in cancer patients following chemotherapy treatments; Study of the role of the microenvironment on cancer cells.
- **Nutrition:** Analysis of the effect of natural compounds on the growth of cancer cells in vitro and in vivo
- **Immunology:** Adaptive immune response and cross presentation; TCR repertoire analysis of gamma delta T lymphocytes, sequencing of the CDR3 region of the T cell receptor.
- **Involvement in Research projects:**
 - 2021-present. Participant in the project financed by M.U.R. PRIN 2020, Project “Gene/environment interactions in breast and thyroid cancers: defining the biological role of and actioning endocrine disruptors and lifestyle to develop rational therapeutic/preventive interventions (Asteroid)”. Unit Project leader Prof. R. Bei;
 - 2020-present. Participant in the project financed by European Defence Agency (EDA), Project “Biological Effects of Radiofrequency Electromagnetic Fields (RFBIO)”. Unit Project leader Prof. R. Bei;

- 2019-2021. Participant in the project financed by Ministero Difesa, Project Gream3. “Genotossicità delle radiazioni elettromagnetiche nelle applicazioni militari”. Unit Project leader Prof. R. Bei;
 - 2019-2021. Participant in the project financed by Università “Tor Vergata”- Ricerca Scientifica di Ateneo MISSION: SUSTAINABILITY, “The use of specific drug cocktails to boost the immune response and antitumor activity of the ErbB2/neu anti-cancer vaccine in head and neck cancer (HNC)”, Project Leader Prof. R. Bei;
 - 2015-2017. Participant in the project financed by Istituto Pasteur Italia, Project "Immunometabolic checkpoints of Treg performance in HCV-related metabolic inflammation and cancer", Project Leader Prof. S. Piconese;
 - 2015-2017. Participant in the project financed by Associazione Italiana Ricerca sul Cancro AIRC, cod. IG-2014, grant number 15199, Project "From the validation of immunogenic cell death to the discovery of lung tumor antigens by immunoproteomics", Project Leader Prof. V. Barnaba;
 - 2015-2016. Participant in the project financed by Fondazione Italiana Sclerosi Multipla FISM Onlus, Project "Ruolo delle risposte di cellule T CD8+ a epitopi associati a cellule T apoptotiche nella SM e nella encefalomyelite sperimentale autoimmune" (cod. 2015/R/04), Project Leader Prof. V. Barnaba;
 - 2014-2015 Participant in the project financed by Fondo per gli Investimenti di Ricerca di Base Protocollo FIRB 2011/13 no. RBAP10TPXK, Project "Eventi cellulari e molecolari nella patogenesi delle infezioni croniche da HBV o HCV", Project Leader Prof. V. Barnaba;
 - 2012-2013 Participant in the project financed by Associazione Italiana Ricerca sul Cancro AIRC, cod IG-2010, number 10756, Project Leader Prof. V. Barnaba;
 - 2012-2013 Collaboratore nel progetto finanziato da Fondazione Cariplo INGM, Project "Improving vaccines for the developing world by means of new adjuvants potentiating effector and memory responses", Project Leader Prof. V. Barnaba;
 - 2009-2012 Participant in the research activities of the group led by Prof.ssa A. Albini, Multimedica (MI);
 - 2006-2007 Participant in the research activities of the group led by Prof. C.D. Pauza, Institute of Human Virology, University of Maryland, MD, USA;
 - 2003-2009 Participant in the research activities of the group led by Prof. R. Bei, Università degli Studi di Roma Tor Vergata;
 - 2003-2009 Participant in the research activities of the group led by Prof. M. Mattei, Centro Interdipartimentale – Stazione per la Tecnologia Animale, Università degli Studi di Roma Tor Vergata.
- **Reviewer for international peer-review journals:** AMAC, Asian Pacific Journal of Tropical Biomedicine, Tumor Biology, Vaccines, Applied Sciences, International Journal of Molecular Sciences, Clinical Immunology, Nutrition and Cancer, Kuwait Journal of Science.
 - **Guest editor**
 - **Pathogens** Special Issue “Cancer Vaccines: Design Considerations and Recent Advances”;
 - **IJMS** Special Issue “The Effect of Dietary Factors on Cancer 3.0”;

SCIENTIFIC PUBLICATIONS

• H-index: 15 (WOS-SCOPUS). Number of citations: 806 (WOS)- 818 (SCOPUS).
**equally contributed*

1. Feizi N, **Focaccetti C**, Pacella I, Tucci G, Rossi A, Costanza M, Pedotti R, Sidney J, Sette A, La Rocca C, Procaccini C, Matarese G, Barnaba V, Piconese S. CD8+ T cells specific for cryptic apoptosis-associated epitopes exacerbate experimental autoimmune encephalomyelitis. *Cell Death Dis.* 2021 Oct 29;12(11):1026. doi: 10.1038/s41419-021-04310-6.
2. Benvenuto M*, Ciuffa S*, **Focaccetti C***, Sbardella D, Fazi S, Scimeca M, Tundo GR, Barillari G, Segni M, Bonanno E, Manzari V, Modesti A, Masuelli L, Coletta M, Bei R. Proteasome inhibition by bortezomib parallels a reduction in head and neck cancer cells growth, and an increase in tumor-infiltrating immune cells. *Sci Rep.* 2021 Sep 24;11(1):19051. doi: 10.1038/s41598-021-98450-6.
3. Benvenuto M*, **Focaccetti C***, Ciuffa S, Fazi S, Bei A, Miele MT, Albonici L, Cifaldi L, Masuelli L, Bei R. Polyphenols affect the humoral response in cancer, infectious and allergic diseases and autoimmunity by modulating the activity of TH1 and TH2 cells. *Curr Opin Pharmacol.* 2021 Oct;60:315-330. doi: 10.1016/j.coph.2021.08.005. Epub 2021 Sep 11.
4. Brandetti E, **Focaccetti C**, Pezzolo A, Ognibene M, Folgiero V, Cotugno N, Benvenuto M, Palma P, Manzari V, Rossi P, Fruci D, Bei R, Cifaldi L. Enhancement of Neuroblastoma NK-Cell-Mediated Lysis through NF-κB p65 Subunit-Induced Expression of FAS and PVR, the Loss of Which Is Associated with Poor Patient Outcome. *Cancers (Basel).* 2021 Aug 29;13(17):4368. doi: 10.3390/cancers13174368.
5. Masuelli L, Benvenuto M, **Focaccetti C**, Ciuffa S, Fazi S, Bei A, Miele MT, Piredda L, Manzari V, Modesti A, Bei R.

- Targeting the tumor immune microenvironment with "nutraceuticals": From bench to clinical trials. *Pharmacol Ther.* 2021 Mar;219:107700. doi: 10.1016/j.pharmthera.2020.107700. Epub 2020 Oct 9. Citations: 0; I.F.: 10.557
6. Albonici L, Benvenuto M, **Focaccetti C**, Cifaldi L, Miele MT, Limana F, Manzari V, Bei R. PlGF Immunological Impact during Pregnancy. *Int J Mol Sci.* 2020 Nov 18;21(22):8714. doi: 10.3390/ijms21228714. Citations: 0; I.F.: 4.556
 7. Benvenuto M, Albonici L, **Focaccetti C**, Ciuffa S, Fazi S, Cifaldi L, Miele MT, De Maio F, Tresoldi I, Manzari V, Modesti A, Masuelli L, Bei R. Polyphenol-Mediated Autophagy in Cancer: Evidence of In Vitro and In Vivo Studies. *Int J Mol Sci.* 2020 Sep 10;21(18):6635. doi: 10.3390/ijms21186635. Citations: 1; I.F.: 4.556
 8. Gallerano D, Ciminati S, Grimaldi A, Piconese S, Cammarata I, **Focaccetti C**, Pacella I, Lancellotti F, Sacco L, Caronna R, Melaiu O, Fruci D, D'Oria V, Manzi E, Sagnotta A, Peruzzi G, Terenzi V, Battisti A, Cassoni A, Fadda MT, Brozzetti S, Fazi C, Grazi GL, Valentini V, Chirletti P, Polimeni A, Barnaba V, Timperi E - Genetically-driven CD39 expression shapes human tumor-infiltrating CD8+ T cell functions – *Int J Cancer.* 2020 Nov 1;147(9):2597-2610. doi: 10.1002/ijc.33131. Citations: 2; I.F.: 5.145
 9. **Focaccetti C***, Benvenuto M*, Ciuffa S, et al. Curcumin Enhances the Antitumoral Effect Induced by the Recombinant Vaccinia Neu Vaccine (rV-neuT) in Mice with Transplanted Salivary Gland Carcinoma Cells. *Nutrients.* 2020;12(5):E1417. Published 2020 May 14. doi:10.3390/nu12051417. Citations: 1; I.F.: 4.546
 10. Grimaldi A, Cammarata I, Martire C, **Focaccetti C**, Piconese S, Buccilli M, Mancone C, Buzzacchino F, Giron Berrios JR, D'Alessandris N, Tomao S, Giangaspero F, Paroli M, Caccavale R, Spinelli GP, Girelli G, Peruzzi G, Nisticò P, Spada S, Panetta M, Cecere FL, Visca P, Facciolo F, Longo F, Barnaba V - Combination of chemotherapy and PD-1 blockade induces T cell responses to tumor non-mutated neoantigens. *Commun Biol.* 2020;3(1):85. Published 2020 Feb 25. doi:10.1038/s42003-020-0811-x. Citations: 3; I.F.: 4.165
 11. Benvenuto M*, **Focaccetti C***, Izzi V*, Masuelli L, Modesti A, Bei R - Tumor antigens heterogeneity and immune response-targeting neoantigens in breast cancer - *Semin Cancer Biol.* 2019 Nov 4. pii: S1044-579X(19)30299-8. doi:10.1016/j.semcancer.2019.10.023. Citations: 3; I.F.: 11.090
 12. **Focaccetti C***, Izzi V*, Benvenuto M, Fazi S, Ciuffa S, Giganti MG, Potenza V, Manzari V, Modesti A, Bei R - Polyphenols as Immunomodulatory Compounds in the Tumor Microenvironment: Friends or Foes? - *Int J Mol Sci.* 2019 Apr 6;20(7). pii:E1714. doi: 10.3390/ijms20071714. Citations: 19; I.F.: 4.556
 13. Pacella I, Procaccini C, **Focaccetti C**, Miacci S, Timperi E, Faicchia D, Severa M, Rizzo F, Coccia E, Bonacina F, Mitro N, Norata G, Rossetti G, Ranzani V, Pagani M, Giorda E, Wei Y, Matarese G, Barnaba V, Piconese S - Fatty acid metabolism complements glycolysis in the selective regulatory T cell expansion during tumor growth - *Proc Natl Acad Sci U S A.* 2018 Jul 10;115(28):E6546-E6555. doi: 10.1073/pnas.1720113115. Epub 2018 Jun 25. Citations: 72; I.F.: 9.412
 14. Pacella I, Cammarata I, **Focaccetti C**, Miacci S, Gulino A, Tripodo C, Ravà M, Barnaba V, Piconese S. Wnt3a Neutralization Enhances T-cell Responses through Indirect Mechanisms and Restrains Tumor Growth. *Cancer Immunol Res.* 2018 Aug;6(8):953-964. doi: 10.1158/2326-6066.CIR-17-0713. Epub 2018 Jul 17. Citations: 12; I.F.: 8.728
 15. Timperi E, **Focaccetti C**, Gallerano D, Panetta M, Spada S, Gallo E, Visca P, Venuta F, Diso D, Prelaj A, Longo F, Facciolo F, Nisticò P, Barnaba V - IL-18 receptor marks functional CD8+ T cells in non-small cell lung cancer – *Oncoimmunology*, 2017 May 12; 6(7): e1328337. doi.org/10.1080/2162402X.2017.1328337. Citations: 12; I.F.: 5.869
 16. Timperi E, Pacella I, Schinzari V, **Focaccetti C**, Sacco L, Farelli F, Caronna R, Del Bene G, Longo F, Ciardi A, Morelli S, Vestri AR, Chirletti P, Barnaba V, Piconese S – Regulatory T cells with multiple suppressive and potentially pro-tumor activities accumulate in human colorectal cancer – *Oncoimmunology.* 2016 Apr 25;5(7):e1175800. doi: 10.1080/2162402X.2016.1175800. Citations: 12; I.F.: 5.869
 17. **Focaccetti C***, Bruno A*, Magnani E, Bartolini D, Principi E, Finzi G, Sessa F, Noonan D, Albini A – Effects of 5-Fluorouracil on morphology, cell cycle, proliferation, apoptosis, autophagy and ROS production in endothelial cells and cardiomyocytes - *PLoS One.* 2015 Feb 11;10(2):e0115686. doi: 10.1371/journal.pone.0115686. Citations: 122; I.F.: 2.740
 18. Masuelli L, Di Stefano E, Fantini M, Mattera R, Benvenuto M, Marchcchella L, Sacchetti P, **Focaccetti C**, Bernardini R, Tresoldi I, Izzi V, Mattei M, Frajese GV, Lista F, Modesti A, Bei R. Resveratrol potentiates the in vitro and in vivo anti-tumoral effects of curcumin in head and neck carcinomas. *Oncotarget.* 2014 Nov 15;5(21):10745-62. Citations: 62; I.F.: 5.168
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SPEAKER AT CONFERENCES

- **Focaccetti C**, Benvenuto M, Ciuffa S, Fazi S, Nardi A, Modesti A, Masuelli L, Bei R. Intramammary vaccine delivery counteracts mammary tumor growth more efficiently than systemic vaccine delivery. World Conference on Vaccination and Immunology held during April 05-06, 2021;
- **Focaccetti C**, Benvenuto M, Ciuffa S, Fazi S, Nardi A, Modesti A, Masuelli L, Bei R. Intratumoral vaccination using recombinant vaccinia virus targeting ErbB2/neu to inhibit mammary gland carcinomas growth in BALB-neuT mouse model. International Webinar on Breast Cancer & Therapy (IWBCT 2021) held during March 08-09, 2021;
- **Focaccetti C**, Benvenuto M, Ciuffa S, Fazi S, Scimeca M, Nardi A, Bonanno E, Modesti A, Masuelli L, Bei R. Curcumin administration potentiates the immune response and anti-tumor activity of the anti-cancer vaccine targeting ErbB2/neu in BALB-neuT mice transplanted with salivary gland carcinomas cells. International Vaccine Congress Vaccines Virtual 2021 held during March 19-20, 2021;
- Speaker at the course "Benessere degli Animali da Laboratorio e Metodi Alternativi alla Sperimentazione Animale", title "Modelli Animali in Oncologia", Istituto Zooprofilattico Sperimentale Lazio e Toscana M. Aleandri, Sede di Roma e CIMETA, Università degli Studi di Roma Tor Vergata, held during October 14-18, 2019;
- **Focaccetti C** (*speaker*), Parodi A, Rampinelli I, Pennesi G, Albin A. Effect of 5-Fluorouracil toxicity on cardiac and vascular cells, *Cardioncology* 2009, Istituto Europeo di Oncologia (IEO), Milano held on September 25, 2009.

POSTERS PRESENTATION AT NATIONAL AND INTERNATIONAL CONGRESS OR CONFERENCE

1. Grimaldi A, Cammarata I, **Focaccetti C**, Martire C, Paroli M, Peruzzi G, Buzzacchino F, Panetta M, Spada S, Girelli G, Longo F, Facciolo F, Ciliberto G, Mancone C, Nisticò P, Barnaba V - Discovery of new chemotherapy-associated antigens induced by immunogenic cell death in NSCLC - 2nd Joint Meeting of the German-Society-for-Immunology (DGfI) and the Italian-Society-of-Immunology-Clinical-Immunology-and-Allergology (SIICA), Munich, Germany, September, 10th-13th, 2019
2. Pacella I, Procaccini C, **Focaccetti C**, Miacci S, Timperi E, Faicchia D, Severa M, Rizzo F, Coccia EM, Bonacina F, Mitro N, Norata GD, Rossetti G, Ranzani V, Pagani M, Giorda E, Wei Y, Matarese G, Barnaba V, Piconese S – Fatty acid metabolism complements glycolysis in the selective regulatory T cell expansion during tumor growth – 5th European Congress of Immunology ECI, Amsterdam, Netherlands, September 2nd-5th, 2018
3. Pacella I, Procaccini C, **Focaccetti C**, Matarese G, Barnaba V, Piconese S – Fatty acid metabolism complements glycolysis in the selective regulatory T cell expansion during tumor growth – Cell Symposia-Translational Immunometabolism, Basel, Switzerland, June 24th-26th, 2018
4. **Focaccetti C**, Cammarata I, Martire M, Pacella I, Feizi N, Salvetti M, Centonze D, Costanza M, Pedotti R, Piconese S, Barnaba V – Role of CD8+ T cell response to apoptotic T cell-associated epitopes in multiple sclerosis and in experimental autoimmune encephalomyelitis – Congresso Scientifico annuale FISM, Rome, 28th-30th May, 2018
5. Gasparri ML, **Focaccetti C**, Paroli M, Palombo F, Besharat AR, Marchetti C, Fischetti M, Benedetti Panici P, Barnaba V - Immune response to Chemotherapy-Associated Antigens as preoperative predictor of oncologic outcome in Ovarian Cancer patients: a pilot study – XVIII World Congress International Society of Gynecological Endocrinology ISGE 2018 – Florence, March 7-10, 2018

6. Gasparri ML, **Focaccetti C**, Paroli M, Palombo F, Besharat AR, Marchetti C, Fischetti M, Benedetti Panici P, Barnaba V - Immune response to Chemotherapy-Associated Antigens as preoperative predictor of oncologic outcome in Ovarian Cancer patients: a pilot study – XX International Meeting of the European Society of Gynaecological Oncology ESGO 2017 –Vienna, Austria, November 4 -7, 2017
7. Pacella I, Procaccini C, Focaccetti C, Miacci S, Faicchia D, Matarese G, Barnaba V, Piconese S – Fatty acid metabolism complements glycolysis in the selective regulatory T cell expansion during tumor growth – Keystone Symposia-Integrating metabolism and immunity, Dublin, Ireland, May 29th-June 2nd, 2017
8. Martire C, Pacella I, Cammarata I, Feizi N, **Focaccetti C**, Salvetti M, Centonze D, Costanza M, Pedotti R, Piconese S. Barnaba V – Role of CD8 T cell response to apoptotic T cell-associated epitopes in multiple sclerosis and in experimental autoimmune encephalomyelitis – Congresso Scientifico annuale FISM, Rome, 29th-31st May, 2017
9. Timperi E, **Focaccetti C**, Gallerano D, Panetta M, Spada S, Visca P, Facciolo F, Prelaj A, Longo F, Diso D, Venuta F, Nisticò P, Barnaba V - IL-18 receptor marks functional CD8 T cells in Non-Small Cell Lung Cancer – XI National Congress of Italian Society of Immunology, Clinical Immunology and Allergology, Bari May 28th-31st 2017
10. Grimaldi A, **Focaccetti C**, Peruzzi G, Del Bene G, Spada S, Longo F, Nisticò P, Mancone C, Barnaba V – Discovery of new chemotherapy-associated antigens induced by immunogenic cell death in lung adenocarcinoma with reverse tumor immunology strategy - XI National Congress of Italian Society of Immunology, Clinical Immunology and Allergology, Bari May 28th-31st 2017
11. **Focaccetti C**, Grimaldi A, Peruzzi G, Del Bene G, Spada S, Longo F, Nisticò P, Barnaba V - “T cell interrogation system”: validation of immunogenic cell death and discovery of lung tumor antigens - X National Congress of Italian Society of Immunology, Clinical Immunology and Allergology, Abano Terme (PD) May 25th-28th 2016
12. Pacella I, **Focaccetti C**, Timperi E, Barnaba V, Piconese S – Immunometabolic checkpoints of Treg performance in cancer - X National Congress of Italian Society of Immunology, Clinical Immunology and Allergology, Abano Terme (PD) May 25th-28th 2016
13. Gallerano D, Timperi E, **Focaccetti C**, Sacco L, Lancellotti F, Fazzi K, Manzi E, Diodoro MG, Brozzetti S, Grazi GL, Chirletti P, Barnaba V – Human primary cell lines from tumor and non-tumor tissue for the study of colorectal cancer immunity - X National Congress of Italian Society of Immunology, Clinical Immunology and Allergology, Abano Terme (PD) May 25th-28th 2016
14. Timperi E, **Focaccetti C**, Grimaldi A, Gallerano D, Panetta M, Facciolo F, Nisticò P, Barnaba V – Phenotypic and functional adaptation of tumor infiltrating lymphocytes in non-small cell lung cancer - X National Congress of Italian Society of Immunology, Clinical Immunology and Allergology, Abano Terme (PD) May 25th-28th 2016
15. Pacella I, **Focaccetti C**, Timperi E, Barnaba V, Piconese S – Lipid metabolism affects regulatory T cell dynamics in cancer – 4th European Congress of Immunology ECI VIENNA September 6-9, 2015
16. Albin A, **Focaccetti C**, Bruno A, Magnani E, Principi E, Masini c, Bucci EO, Finzi G, Sessa F, Noonan DM – Cellular and molecular characterization of 5-Fluorouracil (5-FU) induced toxicity on human cardiomyocytes and endothelial cells - EACR-AACR-SIC 2015 Special Conference, Firenze, June 20-23, 2015
17. Pacella I, **Focaccetti C**, Wei Y, Mancini-Bourguine M, Michel ML, Barnaba V, Piconese S – Dinamiche delle cellule T regolatorie in malattie infiammatorie epatiche virus- o non-virus-associate – Liver Gymnasium 2, Padova, June 18-19, 2015

- Further 35 posters presented at congresses between 2005 and 2014.

PARTECIPATION IN SCIENTIFIC SOCIETIES

- Member Società Italiana di Immunologia, Immunologia Clinica ed Allergologia (SIICA), 2012, 2013, 2014, 2015, 2016;
- Member European Association for Cancer Research (EACR), 2009, 2010, 2011;
- Member Società Italiana Cancerologia (SIC) 2009, 2010, 2011.

WINNER OR ELIGIBLE FOR RESEARCH FELLOW, CONTRACT OR ASSEGNI DI RICERCA

- 15/11/2018: **Eligible** (11°/37) in the final ENEA ranking of the public competition based on qualifications and interview exam for the recruitment of permanent researchers (Rif. 01/2017-POS.28), “Sviluppo di tecnologie innovative per la comprensione di meccanismi patogenetici di malattie multifattoriali e di effetti da agenti ambientali”;
- 14/02/2017: **Winner** in the final ranking of the public competition based on qualifications and exams aimed at the recruitment of high school teaching staff (D.D.G. n. 106 del 23 February 2016);
- 30/10/2012: **Winner** in the selection for the assignment of an Assegno di Ricerca at Dip. di Medicina dei Sistemi, Università Roma Tor Vergata, relativo al progetto “Sviluppo di Molecole innovative nella terapia anti-aterosclerosi”, settore disciplinare BIO/12.
- 17/11/2011: **Eligible** in the selection for the assignment of an Assegno di Ricerca at Dip. di Biologia, Università Roma Tor Vergata, relativo al progetto “Caratterizzazione di anticorpi specifici per fosfatasi umane”, settore disciplinare BIO/18;
- 31/12/2009: **Eligible** as collaborator in the selection at Istituto Superiore di Sanità for the project “Sperimentazione

- vaccino anti HIV” Avviso Q;
- 31/12/2009: **Eligible** as collaborator in the selection at Istituto Superiore di Sanità for the project “Sperimentazione vaccino anti HIV” Avviso I;
 - 31/12/2009: **Eligible** as collaborator in the selection at Istituto Superiore di Sanità for the project “Sperimentazione vaccino anti HIV” Avviso F;
 - 31/12/2009 **Eligible** as collaborator in the selection at Istituto Superiore di Sanità for the project “Sperimentazione vaccino anti HIV” Avviso E;
 - 28/12/2009: **Eligible** as collaborator in the selection at Istituto Superiore di Sanità for the project “Come contrastare la Pandemia Influenzale: individuazione di nuovi farmaci efficaci (u. o. 4)”, Fasc. 9AHF;
 - 27/11/2009: **Eligible** as collaborator in the selection at Istituto Superiore di Sanità for the project “ChildINNOVAC”, Fasc. Q53;
 - 21/10/2009: **Eligible** as collaborator in the selection at Istituto Superiore di Sanità for the project “Seventh Framework Programme FP7: Development and validation of microarray based automated diagnostic system for the detection of influenza virus types and subtypes at point-of-care” FLUARRAY, Fasc. Q49;
 - 11/02/2009: **Eligible** as collaborator in the selection at Istituto Superiore di Sanità for the project “Design of a vaccine to immunize neonates against Streptococcus agalactiae (GBS) infections through a durable maternal immune response” (agreement n. 200481), Fasc. Q03;
 - 11/02/2009: **Eligible** as collaborator in the selection at Istituto Superiore di Sanità for the project FP7 Grant-Agree n. 202230 – GENINCA “Genomic instability and alterations in precancerous lesions and/or cancer”, Fasc. Q8I avviso B;
 - 11/02/2009: **Eligible** as collaborator in the selection at Istituto Superiore di Sanità for the project FP7 Grant-Agree n. 202230 – GENINCA “Genomic instability and alterations in precancerous lesions and/or cancer”, Fasc. Q8I avviso A;
 - 04/11/2008: **Eligible** in the selection for the assignment of an Assegno di Ricerca at Istituto di Tecnologie Biomediche (ITB) - CNR (MI) on the subject “Ricerca, caratterizzazione e sviluppo di nuovi antibiotici”, as part of the framework agreement between CNR and the Lombardy Region - Project “Nanoscienze per materiali e applicazioni biomediche”;
 - 06/08/2008: **Eligible** as collaborator in the selection at Istituto Superiore di Sanità for the project “Base molecolare delle malattie mieloproliferative e croniche e sviluppo di nuove terapie.

La sottoscritta dichiara che tutto quanto ivi riportato corrisponde a verità, ai sensi degli articoli 46 e 47 del D.P.R. 445/200 ed è a conoscenza che, ai sensi dell’art. 76 del D.P.R. 445/2000, le dichiarazioni mendaci, la falsità negli atti e l’uso di atti falsi sono puniti ai sensi del codice penale e delle leggi speciali. La sottoscritta autorizza al trattamento dei dati personali contenuti nel presente curriculum vitae, secondo quanto previsto dall’art. 13 del D. Lgs. 196/2003 e dal “Regolamento europeo sulla protezione dei dati personali”.

Roma 10/01/2022

Dott.ssa Chiara Focaccetti

