

# Valerio Iebba, M.Sc., Ph.D.

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## CURRENT POSITION

Associate Professor in Microbiology and Clinical Microbiology - University of Trieste

21st February 2023 - present

Projects: Therapeutic and diagnostic potential of gut microbiota in different cancers, combining traditional microbiology, *in vitro* and *in vivo* infections, and functional metagenomics.

Departmental functions:

- Department Council
- Courses Councils
- Teaching Staff

## EDUCATION

### Postdoctoral Research Associate

September 2017 -  
February 2020

- Institute Gustave Roussy, Villejuif, France  
Project: Discovery of fecal metagenomic and metabolomic bacterial signature (GOMS) in patients with breast, kidney and lung cancer, before and after immune checkpoint inhibitors treatment.  
Techniques: metagenomics, bioinformatics, machine learning, programming, mice experiments  
PIs: Prof. Laurence Zitvogel, Prof. Guido Kroemer

- Great Ormond Street, Institute of Child Health, University College London, Infection, Immunity, Inflammation & Physiology Medical Unit, London, UK.  
Project: Early epigenetic responses after pathogen exposure: role of Gamma- and Epsilon-Proteobacteria in pediatric Inflammatory Bowel Diseases.  
Techniques: WB, ELISA, qPCR, bacterial infections, cell transfections, epigenetic techniques (ChIP, methylation assays)  
PI: Prof. Mona Bajaj-Elliot

March 2012 -  
August 2012

- Umberto I Hospital, 'Sapienza' University of Rome, Pediatric Gastroenterology Unit, Rome, Italy – Funded by Broad Medical Research Program (BMRP), Los Angeles  
Project: Characterization of *Escherichia coli* isolates from Inflammatory Bowel Diseases and Cystic fibrosis pediatric patients  
Techniques: bacterial infections, bacterial genomics, adhesion and invasion assays, PCR and qPCR, bacterial genomic engineering, WB, ELISA, epigenetic techniques (ChIP, methylation assays, NOME-seq)  
PIs: Prof. Salvatore Cucchiara, Prof. Serena Quattrucci, Prof. Serena Schippa

2010-2012

**M.Sc., Bioinformatics**, 'Sapienza' University of Rome, Rome, Italy

2014

Thesis: "Detection and characterization of *Neisseria sp.* DNA uptake sequences from genomes and shotgun metagenomic samples"

Techniques: NGS shotgun sequencing, metagenomics, bioinformatics, machine learning, programming  
Advisor: Prof. Nicola Segata

**M.Sc., Biostatistics**, 'Sapienza' University of Rome, Rome, Italy

2012

Thesis: "Metagenomics and metabolomics in Cystic fibrosis patients: a 'functional metagenomics' approach"

Techniques: biostatistics, protein modeling, docking, bioinformatics  
Advisor: Prof. Luca Tardella

**Ph.D., Pediatric Sciences**, 'Sapienza' University of Rome, Rome, Italy

14 January 2010

Dissertation: "Microbiological features in IBD pediatric patients"

Techniques: bacterial isolation, NGS shotgun sequencing, comparative genomics, adhesion and invasion assays, PCR and qPCR, protein purification and modeling, DNA/RNA extraction, TTGE, statistics for microbial ecology

Advisor: Prof. Serena Schippa

Committee: Profs. Francesco Maria Paone, Mario Curione, Roberto Berni Canani

**B.S. and M.S., Biological Sciences**, *summa cum laude*, 'Sapienza' University of Rome

24 July 2006

Thesis: "Isocitrate dehydrogenase from hyperthermophile archeobacterium *Aeropyrum pernix*: thermodynamic and kinetic stability"

Techniques: circular dichroism, spectroscopic fluorescence, protein purification, protein stability assays (urea, temperature), enzymatic activity assays

Advisor: Prof. Valerio Consalvi

## RESEARCH EXPERIENCE

Assistant Professor in Microbiology and Clinical Microbiology - University of Trieste

21st February 2020 -

Projects: During my first years at University of Trieste I fostered international collaborations extending the existing ones (France) to Japan and United States. Setup of laboratory space, securing initial grants, and recruiting fellows, came along with the continuation of wet lab experiments and computational biology approaches within the cancer and microbiota field.

21st February 2023

*Researcher* at Pasteur Institute, Cenci Bolognetti Foundation, Rome, Italy

September 2016 -

Project: Research on microbiota composition in inflammatory diseases and cancer through bioinformatics analysis of 16S, 18S and shotgun samples. Genomic and phenotypic characterization of isolated *E. coli* strains.

September 2017

*Researcher in Genomics and Proteomics*, 'Sapienza' University of Rome and CEINGE Advanced Biotechnologies, Italy

September 2013 -

Project: Metagenomics and metaproteomics of *E. coli*-derived Outer Membrane Vesicles (OMVs).

September 2016

Collaboration with Prof. Piero Pucci, Prof. Angela Duilio

*Visiting researcher* at Swansea University, Institute of Life Sciences 2, Swansea, Galles

1st April 2014 -

Advisor: Prof. Steve Conlan

Project: Chromatin immuno-precipitation (ChIP) optimization with state-of-the-art protocols and kits. Analysis of ChIP-qPCR and ChIP-Seq data.

30th April 2014

## SCOPUS IDENTIFIER ( Author ID: 25227680000 )

<b>h-index</b>	<b>31</b>
Documents	58
Citations	5192
Citing documents	4502
Co-authors	651

**NCBI Bibliography** - <https://www.ncbi.nlm.nih.gov/myncbi/1XqEt88ysrp5b/bibliography/public/>

**ResearchGate** - <https://www.researchgate.net/profile/Valerio-Iebba>

**Scopus** - <https://www.scopus.com/authid/detail.uri?authorId=25227680000>

**Google Scholar** - [https://scholar.google.com/citations?hl=it&user=RKsDaQYAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=it&user=RKsDaQYAAAAJ&view_op=list_works&sortby=pubdate)

**ORCID** - <http://orcid.org/0000-0002-0716-306X>

## PATENTS

1. "A predictive score of cancer immunotherapy outcome based on ecological analysis of gut microbiota", European Patent Application. Filed on 4 November 2022, number EP22306675.4.

Applicant: Institut Gustave Roussy.

Inventors: Laurence Zitvogel, Lisa Derosa, **Valerio Iebba**.

2. “Methods and compositions for treating cancer”, World Patent No. WO2020106983A1. Filed on 28 May 2020. Applicant: Board Of Regents, The University Of Texas System, Institut Gustave Roussy.  
Inventors: Jennifer A. Wargo, Vancheswaran Gopalakrishnan, Miles C. Andrews, Laurence Zitvogel, **Valerio Iebba**.
3. “Microbiota composition, as a marker of responsiveness to anti-PD1/PD-L1/PD-L2 antibodies in lung cancer”, Patent No. 18305757.9-1111, European Patent Application. Filed on 18 June 2018, number EP18305757.9. Applicant: Institut Gustave Roussy.  
Inventors: Laurence Zitvogel, **Valerio Iebba**.

## **PUBLICATIONS ( Total: 59 - First author: 21 - Last author: 6 – Corresponding: 11 )**

### **Keywords**

Microbiota; Microbiome; Cancer; Network topology; Metagenomics; Immunotherapy; Bioinformatics; Metabolomics; SCAFs; Intratumoral bacteria; *Escherichia coli*; AIEC; inflammation; cellular damage; *Bdellovibrio bacteriovorus*; BALOs

### **Publications of the last five years ( articles published 26; IF=700; average IF per publication 26.9 )**

1. Marrocco F, Khan R, Reccagni A, Lin X, Delli Carpini M, **Iebba V**, D'Alessandro G, Limatola C. (2025) Fecal or bacterial transplantation in mice transfer environment-induced brain plasticity and associated behavioral changes. *Frontiers in Physiology*. 2025 May 30; 16:1572854. doi: 10.3389/fphys.2025.1572854. **IF=3.4**
2. Zitvogel L., Derosa L., Routy B., Loibl S., Heinzerling L., de Vries I.J.M., Engstrand L., Alves Costa Silva C., Barbieri D., Boleij A., Bol K., Brusselaers N., Budinska E., Caldas C., Cordero F., Cremolini C., Daillère R., Denkert C., Durand S., Ehrlich S., Eisinger F., Elkrief A., Fall K., Felder B., Ferrere G., Fidelle M., Gaborit J., Gariboldi M., Guindo C.O., **Iebba V**, Lehtio J., Martineau M., Messaoudene M., Monville F, Naccarati A., Pardini B, Pinto F, Piccinno G, Pizzato E., Popovici V, Haj Rachid M., Tarallo S., Schuler-Thurner B, Schuler G., Szallasi Z., Sow C., Trinchieri G., Trochon J.J., Zeller G., Segata N., Kroemer G. (2025) Impact of the ONCOBIOME network in cancer microbiome research. *Nature Medicine*. 2025 Jun; 31: 1085–1098. doi: 10.1038/s41591-025-03608-8. **IF=87.244**
3. Birebent R., Drubay D., Alves Costa Silva C., Marmorino F, Vitali G., Piccinno G., Hurtado Y, Bonato A., Belluomini L., Messaoudene M., Routy B., Fidelle M., Zalcman G., Mazieres J, Audigier-Valette C., Moro-Sibilot D, Goldwasser F, Scherpereel A., Pegliasco H., Ghiringhelli F, Reni A., Barlesi F, Albiges L., Planchard D, Martinez S., Besse B., Segata N., Cremolini C.\*, Zitvogel L.\*, **Iebba V.\***, Derosa L.\* (2025) Surrogate markers of intestinal dysfunction associated with survival in advanced cancers. *OncoImmunology*. 2025. \*These authors contributed equally to this work. **IF=6.5**. Accepted for publication.
4. Chen J, Levy A, Tian A.L., Huang X., Cai G., Fidelle M., Rauber C., Ly P, Pizzato E., Sitterle L., Piccinno G., Liu P, Durand S, Mao M, Zhao L, **Iebba V**, Felchle H., Mallard de La Varende A.L., Fischer J.C., Thomas S., Greten T.F., Jones J.C., Monge C., Demaria S., Formenti S., Belluomini L., Dionisi V, Massard C., Blanchard P, Robert C., Quevrin C., Lopes E., Clémenson C., Mondini M., Meziani L., Zhan Y, Zeng C., Cai Q, Morel D, Sun R, Laurent P.A., Mangoni M., Di Cataldo V, Arilli C., Trommer M., Wegen S., Neppi S., Riechelmann R.P., Camandaroba M.P., Neto E.S., Fournier P.E., Segata N., Holicek P, Galluzzi L., Buqué A., Alves Costa Silva C., Derosa L., Kroemer G., Chen C., Zitvogel L., Deutsch E. (2025) Low-dose irradiation of the gut improves the efficacy of PD-L1 blockade in metastatic cancer patients. *Cancer Cell*. 2025 Mar; 43(3): 361-379.e10. doi: 10.1016/j.ccell.2025.02.010. **IF=48.8**.
5. Dall'Olio F.G., Zrafi W., Roelants V., Ambrosini V., Fourquet A., Mitea C., Passiglia F, Bauckneht M., Bonardel G., Conci N., Benitez J.C., Arena V, Namour C., Naigeon M., Monnet I., Beshiri K., Hoton D, Dursun S., Danlos F.X., Argalia G., Aldea M., Rovera G., Derosa L., **Iebba V**, Gietema H.A., Gounant V, Lacroix V, Remon J, Gautheret D, Chaput N, Job B, Kannouche P.L., Velasco-Nuño M., Zitvogel L., Cella E., Chicharo de Freitas J.R., Vasseur D, Bettaieb M.A., Tagliamento M., Hendriks L., Italiano A., Planchard D, Marabelle A., Barlesi F, Novello S, De Andreis D, Aboubakar Nan F, Ardizzoni A., Zalcman G., Garcia C., Besse B. (2024) Metabolic

tumor volume assessed by 18F FDG - PET CT scan as a predictive biomarker for immune checkpoint blockers in advanced NSCLC and its biological correlates. *Clin Cancer Res.* 2024 Oct 22. doi: 10.1158/1078-0432.CCR-24-1993. **IF=10.4**

6. Garcia-Martinez Y, Alexandrova E, **Iebba V**, Ferravante C., Spinelli M., Franci G., Amoresano A., Weisz A., Trepiccione F, Borriello M, Ingrosso D, Perna A.F. (2024) Does gut microbiota dysbiosis impact the metabolic alterations of hydrogen sulfide and lanthionine in patients with chronic kidney disease? *BMC Microbiol* 24, 436 (2024). doi:10.1186/s12866-024-03590-0. **IF=4**
7. Schettini F, Gattazzo F, Nucera S, Rubio Garcia E., López-Aladid R., Morelli L., Fontana A., Vigneri P, Casals-Pascual C., **Iebba V**, Generali D. (2024) Navigating the complex relationship between human gut microbiota and breast cancer: Physiopathological, prognostic and therapeutic implications. *Cancer Treat Rev.* 2024 Aug 17:130:102816. doi: 10.1016/j.ctrv.2024.102816. **IF=9.6**
8. Pacella I, Pinzon Grimaldos A, Rossi A., Tucci G, Zagaglioni M., Potenza E., Pinna V, Rotella I, Cammarata I, Cancila V, Belmonte B, Tripodo C., Pietropaolo G., Di Censo C., Sciumè G., Licursi V, Peruzzi G., Antonucci Y, Campello S, Guerrieri F, **Iebba V**, Prota R, Di Chiara M., Terrin G., De Peppo V, Grazi G.L., Barnaba V, Piconese S. (2024) Iron capture through CD71 drives perinatal and tumor-associated Treg expansion. *JCI Insight.* 2024 Jul 2:e167967. doi: 10.1172/jci.insight.167967. **IF=6.3**
9. Derosa L.\*, **Iebba V.\***, Alves Costa Silva C.\*, Piccinno G., Wu G., Lordello L., Routy B, Zhao N., Thelemaque C., Birebent R., Marmorino F, Fidelle M., Messaoudene M., Thomas A.M., Zalcmán G., Friard S, Mazieres J, Audigier-Valette C., Moro-Sibilot D, Goldwasser F, Scherpereel A, Pegliasco H, Ghiringhelli F, Bouchard N, Sow C., Darik I, Zoppi S, Ly P, Reni A., Daillère R, Deutsch E., Lee K.A., Bolte L.A., Björk J.R., Weersma R.K., Barlesi F, Padilha L., Finzel A., Isaksen M.L., Escudier B, Albiges L., Planchard D, André F, Cremolini C., Martínez S., Besse B, Zhao L., Segata N., Wojcik J., Kroemer G., Zitvogel L. (2024) Custom scoring based on ecological topology of gut microbiota associated with cancer immunotherapy outcome. *Cell.* 20 June 2024; 187(13):3373 - 3389.e16. doi: 10.1016/j.cell.2024.05.029. \*These authors contributed equally to this work. **IF=45.5**
10. Le Naour J, Montégut L., Pan Y, Scuderi S.A., Cordier P, Joseph A., Sauvat A., **Iebba V**, Paillet J, Ferrere G, Brechard L, Mulot C, Dubourg G, Zitvogel L, Pol J.G., Vacchelli E., Puig P.L., Kroemer G. (2023) Formyl peptide receptor-1 (FPR1) represses intestinal oncogenesis. *Oncimmunology.* 2023 Jul 21;12(1):2237354. doi: 10.1080/2162402X.2023.2237354. **IF=7.723**
11. Schettini F, Fontana A., Gattazzo F, Strina C., Milani M., Cappelletti M.R., Cervoni V, Morelli L., Curigliano G., **Iebba V.\***, Generali D.\* (2023) Fecal microbiota composition is related to response to CDK4/6-inhibitors in metastatic breast cancer: a prospective cross-sectional exploratory study. *European Journal of Cancer.* 20 June 2023, 112948. doi: 10.1016/j.ejca.2023.112948. \*These authors contributed equally to this work. **IF=8.4**
12. Marrocco F, Delli Carpini M., Garofalo S., Giampaoli O., De Felice E., Di Castro M.A., Maggi L., Scavizzi F, Raspa M., Marini F, Tomassini A., Nicolosi R, Cason C., Trettel F, Miccheli A.\*, **Iebba V.\***, D'Alessandro G.\*, Limatola C.\* (2022) Short-chain fatty acids promote the effect of environmental signals on the gut microbiome and metabolome in mice. *Commun Biol.* May 31;5(1):517. doi: 10.1038/s42003-022-03468-9. \*These authors contributed equally to this work. **IF=6.548**
13. Derosa L.\*, Routy B.\*, Thomas A.M.\*, **Iebba V.**, Zalcmán G., Friard S, Mazieres J, Audigier-Valette C., Moro-Sibilot D, Goldwasser F, Silva C.A.C., Terrisse S, Bonvalet M., Scherpereel A, Pegliasco H, Richard C, Ghiringhelli F, Elkrief A, Desilets A, Blanc-Durand F, Cumbo F, Blancó A, Boidot R, Chevrier S, Daillère R, Kroemer G, Alla L, Pons N, Le Chatelier E, Galleron N, Roume H, Dubuisson A, Bouchard N, Messaoudene M, Drubay D, Deutsch E., Barlesi F, Planchard D, Segata N, Martínez S, Zitvogel L., Soria J.C., Besse B. (2022) Intestinal *Akkermansia muciniphila* predicts clinical benefit to PD1 blockade in advanced non-small cell lung cancer patients. *Nature Medicine.* Feb 28(2):315-324. doi: 10.1038/s41591-021-01655-5. \*These authors contributed equally to this work. **IF=87.244**
14. Yonekura S.\*, Terrisse S.\*, Silva C.A.C.\*, Lafarge A., **Iebba V.**, Ferrere G., Goubet A., Fahrner J., Lahmar I, Ueda K., Mansouri G, Pizzato E., Ly P, Mazzenga M, Thelemaque C, Deloger M, Aglave M, Droin N, Opolon P, Puget A, Mann F, Neunlist M, Bessard A, Aymeric L, Bosq J, Paul H, Duong C, Ugolini S, Quiniou V, Berrard S, Ryffel B, Kepp O, Kroemer G, Routy B, Lordello L, Bani M, Segata N, Scoazec J, Pasolli E., Derosa L., Zitvogel L. (2022) Cancer-induced ileopathy and dysbiosis contribute to carcinogenesis. *Cancer Discovery.* Apr

1;12(4):1128-1151. doi: 10.1158/2159-8290.CD-21-0999. \*These authors contributed equally to this work. **IF=39.397**

15. Andrews M.C.\*, Duong C.P.M.\*, Gopalakrishnan V.\*, **Iebba V.\***, Chen W.S.\*, Derosa L.\*, Khan M.A.W., Cogdill A.P., White M.G., Wong M.C., Ferrere G., Fluckiger A., Roberti M.P., Opolon P., Alou M.T., Yonekura S., Roh W., Spencer C.N., Curbelo I.F., Vence L., Reuben A., Johnson S., Arora R., Morad G., Lastrapes M., Baruch E.N., Little L., Gumbs C., Cooper Z.A., Prieto P.A., Wani K., Lazar A.J., Tetzlaff M.T., Hudgens C.W., Callahan M.K., Adamow M., Postow M.A., Ariyan C.E., Gaudreau P.O., Nezi L., Raoult D., Mihalcioiu C., Elkrief A., Pezo R.C., Haydu L.E., Simon J.M., Tawbi H.A., McQuade J., Hwu P., Hwu W.J., Amaria R.N., Burton E.M., Woodman S.E., Watowich S., Diab A., Patel S.P., Glitza I.C., Wong M.K., Zhao L., Zhang J., Ajami N.J., Petrosino J., Jenq R.R., Davies M.A., Gershenwald J.E., Futreal P.A., Sharma P., Allison J.P., Routy B., Zitvogel L., Wargo J.A. (2021) Gut microbiota signatures are associated with toxicity to combined CTLA-4 and PD-1 blockade. *Nature Medicine*. Aug;27(8):1432-1441. doi: 10.1038/s41591-021-01406-6. \*These authors contributed equally to this work. **IF=87.24**
16. Goubet A.G., Wheeler R., Fluckiger A., Qu B., Lemaître F., Iribarren K., Mondragón L., Tidjani Alou M., Pizzato E., Durand S., Derosa L., Aprahamian F., Bossut N., Moya-Nilges M., Derrien D., Chen G., Leduc M., Joseph A., Pons N., Le Chatelier E., Segata N., Yonekura S., **Iebba V.**, Kepp O., Raoult D., André F., Kroemer G., Boneca I.G., Zitvogel L., Daillère R. (2021) Multifaceted modes of action of the anticancer probiotic *Enterococcus hirae*. *Cell Death Differ*. 28(7):2276-2295. doi: 10.1038/s41418-021-00753-8. **IF=12.073**
17. Terrisse S., Derosa L., **Iebba V.**, Ghiringhelli F., Vaz-Luis I., Kroemer G., Fidelle M., Christodoulidis S., Segata N., Thomas A.M., Martin A.L., Sirven A., Everhard S., Aprahamian F., Nirmalathasan N., Aarnoutse R., Smidt M., Ziemons J., Caldas C., Loibl S., Denkert C., Durand S., Iglesias C., Pietrantonio F., Routy B., André F., Pasolli E., Delalogue S., Zitvogel L. (2021) Intestinal microbiota influences clinical outcome and side effects of early breast cancer treatment. *Cell Death Differ*. doi: 10.1038/s41418-021-00784-1. **IF=12.073**
18. **Iebba V.**, Zanotta N., Campisciano G., Zerbato V., Di Bella S., Cason C., Luzzati R., Confalonieri M., Palamara A.T., Comar M. (2021) Profiling of oral microbiota and cytokines in COVID-19 patients. *Frontiers in Microbiology*. doi: 10.3389/fmicb.2021.671813. **IF=6.064**
19. Ferrere G., Tidjani Alou M., Liu P., Goubet A.G., Fidelle M., Kepp O., Durand S., **Iebba V.**, Fluckiger A., Daillère R., Thelemaque C., Grajeda-Iglesias C., Alves Costa Silva C., Aprahamian F., Lefevre D., Zhao L., Ryffel B., Colomba E., Arnedos M., Drubay D., Rauber C., Raoult D., Asnicar F., Spector T., Segata N., Derosa L., Kroemer G., Zitvogel L. (2021) Ketogenic diet and ketone bodies enhance the anticancer effects of PD-1 blockade. *JCI Insight* 6(2):e145207. doi: 10.1172/jci.insight.145207 **IF=9.484**
20. Campisciano G., **Iebba V.**, Zito G., Luppi S., Martinelli M., Fischer L., De Seta F., Basile G., Ricci G., Comar M. (2020) *Lactobacillus iners* and *gasseri*, *Prevotella bivia* and HPV Belong to the Microbiological Signature Negatively Affecting Human Reproduction. *Microorganisms*. 9(1):39. doi: 10.3390/microorganisms9010039. **IF=4.926**
21. Picard M., Yonekura S., Slowicka K., Petta I., Rauber C., Routy B., Richard C., **Iebba V.**, Tidjani Alou M., Becharaf S., Ly P., Pizzato E., Lehmann C.H.K., Amon L., Klein C., Opolon P., Gomperts Boneca I., Scoazec J.Y., Hollebecque A., Malka D., Ghiringhelli F., Dudziak D., Bex G., Vereecke L., van Loo G., Kroemer G., Zitvogel L., Roberti M.P. (2020) Ileal immune tonus is a prognosis marker of proximal colon cancer in mice and patients. *Cell Death Differ*. doi: 10.1038/s41418-020-00684-w. **IF=12.073**
22. Fluckiger A., Daillère R., Sassi M., Sixt B.S., Liu P., Loos F., Richard C., Rabu C., Alou M.T., Goubet A.G., Lemaître F., Ferrere G., Derosa L., Duong C.P.M., Messaoudene M., Gagné A., Joubert P., De Sordi L., Debarbieux L., Simon S., Scarlata C.M., Ayyoub M., Palermo B., Facciolo F., Boidot R., Wheeler R., Boneca I.G., Sztupinszki Z., Papp K., Csabai I., Pasolli E., Segata N., Lopez-Otin C., Szallasi Z., Andre F., **Iebba V.**, Quiniou V., Klatzmann D., Boukhalil J., Khelaifia S., Raoult D., Albiges L., Escudier B., Eggermont A., Mami-Chouaib F., Nistico P., Ghiringhelli F., Routy B., Labarrière N., Cattoir V., Kroemer G., Zitvogel L. (2020) Cross-reactivity between tumor MHC class I-restricted antigens and an enterococcal bacteriophage. *Science*. 369(6506):936-942. doi: 10.1126/science.aax0701. **IF=63.832**
23. Pinacchio C., Scagnolari C., **Iebba V.**, Santinelli L., Innocenti G.P., Frasca F., Bitossi C., Scordio M., Oliveto G., Ceccarelli G., Antonelli G., Mastroianni C.M., d'Ettorre G. (2020) High abundance of genus *Prevotella* is associated with dysregulation of IFN-I and T cell response in

- HIV-1-infected patients. *AIDS*. 34(10):1467-1473. doi: 10.1097/QAD.0000000000002574. **IF=4.632**
24. Riganelli L.\*, **Iebba V.\***, Piccioni M., Illuminati I., Bonfiglio G., Neroni B., Calvo L., Gagliardi A., Levrero M., Merlino L., Mariani M., Capri O., Pietrangeli D., Schippa S., Guerrieri F. (2020) Structural Variations of Vaginal and Endometrial Microbiota: Hints on Female Infertility. *Front Cell Infect Microbiol*. 10:350. doi: 10.3389/fcimb.2020.00350. eCollection 2020. \*These authors contributed equally to this work. **IF=6.073**
  25. Roberti M.P., Yonekura S., Duong C.P.M., Picard M., Ferrere G., Tidjani Alou M., Rauber C., **Iebba V.**, Lehmann C.H.K., Amon L., Dudziak D., Derosa L., Routy B., Flament C., Richard C., Daillère R., Fluckiger A., Van Seuningen I., Chamaillard M., Vincent A., Kourula S., Opolon P., Ly P., Pizzato E., Becharef S., Paillet J., Klein C., Marliot F., Pietrantonio F., Benoist S., Scoazec J.Y., Dartigues P., Hollebecque A., Malka D., Pagès F., Galon J., Gomperts Boneca I., Lepage P., Ryffel B., Raoult D., Eggermont A., Vanden Berghe T., Ghiringhelli F., Vandenabeele P., Kroemer G., Zitvogel L. (2020) Chemotherapy-induced ileal crypt apoptosis and the ileal microbiome shape immunosurveillance and prognosis of proximal colon cancer. *Nat Med*. 26(6):919-931. doi: 10.1038/s41591-020-0882-8. **IF=87.244**
  26. Derosa L.\*, Routy B.\*, Fidelle M.\*, **Iebba V.**, Alla L., Pasolli E., Segata N., Desnoyer A., Pietrantonio F., Ferrere G., Fahrner J., Le Chatellier E., Duong C.P.M., Mondragón L., Iribarren K., Bonvalet M., Terrisse S., Rauber C., Goubet A., Daillère R., Lamaitre F., Reni A., Casu B., Tidjani Alou M., Alves Costa Silva C., Raoult D., Fizazi K., Escudier B., Kroemer G., Albiges L., Zitvogel L. (2020) Gut bacteria composition drives primary resistance to cancer immunotherapy in renal cell carcinoma patients. *European Urology*. pii: S0302-2838(20)30307-9. doi: 10.1016/j.eururo.2020.04.044. \*These authors contributed equally to this work. **IF=23.4**

## BOOK CHAPTERS

1. **Valerio Iebba** (2024) Assessment of adhering and invading properties of *Escherichia coli* strains. *Methods in Cell Biology*. doi: 10.1016/bs.mcb.2024.08.011 (Book Chapter)
2. **Valerio Iebba** (2024) Bacterial predators and BALOs: Growth protocol and relation with mitochondria. *Methods in Cell Biology*. doi: 10.1016/bs.mcb.2024.07.003 (Book Chapter)

## INVITED TALKS

1. “Gut microbial markers and agents in cancer”, MBC Lectures & Seminars, Centro Interdipartimentale di Biotecnologie Molecolari “Guido Tarone”, 13 December 2024, Turin, Italy. Hosted by Federica di Nicolantonio.
2. “Gut microbial markers and agents in cancer”, International Centre for Genetic Engineering and Biotechnology (ICGEB) seminars, 7 December 2023, Trieste, Italy. Hosted by Serena Zacchigna.
3. “Biomarkers in microbiome approaches”, ESMO Advanced Course on Biomarkers for Precision Cancer Medicine, 25-26 November 2022, Zurich, Switzerland
4. “A predictive score of cancer immunotherapy responses based on ecological analysis of gut microbiota”, Italian Society for Cancerology (SIC) Congress, 16-18 November 2022, Venice, Italy
5. “Toposcore”, ONCOBIOME Meeting, 13-14 October 2022, Turin, Italy
6. “Ruolo del microbiota intestinale nella risposta agli immunoterapici: verso una medicina per l'oncologia”, Italian Society for Microbiology (SIM), 50<sup>th</sup> National Congress, 18-21 September 2022, Napoli, Italy
7. “Il microbiota” – Main Lecture during the congress “Hot Topics in Uro-Oncology” - 22 November 2019, Torino, Italy.
8. “Metagenomics, *E. coli* population and cancer”, IRSD (Institut de Recherche en Santé Digestif), 15 March 2019, Toulouse, France.
9. “Intestinal microbiota and *Escherichia coli* involvement in inflammation and cancer”, IRCM (Institut de Recherche en Cancérologie de Montpellier), 22 February 2019, Montpellier, France.
10. “Next generation sequencing applied to microbiota”, Institut Gustave Roussy, 27 October 2017, Villejuif, France.
11. “La Vita, l'Universo...e quasi tutto il Microbiota”, divulgative presentation at Pint of Science, organized by Institute Pasteur – Cenci Bolognetti Foundation, 15 May 2017, Rome, Italy

12. “Intestinal microbiota: biological and clinical features”, Italian Federation for Fight Against Cancer, National Congress, 16-17 May 2016, Catania, Italy
13. “Intestinal microbiota”, Quality of life in the oncologic patient: nutrition and new therapies, Together against the cancer Foundation, National Meeting, 25 November 2015, Rome, Italy
14. “Next Generation Sequencing (NGS) to evaluate microorganism presence in salivary calculi”, Endoscopic Surgery National Congress, Italian Minister of Health, 25 November 2015, Rome, Italy
15. “Bacteriome”, 8<sup>th</sup> International Congress “Probiotics, Prebiotics & New Foods- for microbiota and human health”, Pontifical University Urbaniana, 13<sup>th</sup> September 2015, Rome, Italy
16. “Life, the Universe...and almost all of the Microbiota”, Infection and Immunity Theme Seminars, Institute Of Child Health, 17 April 2012, London, United Kingdom
17. “Mucosa-associated microbiota in Crohn’s disease pediatric patients, and metabolic phenotypes”, Italian Society for Pediatric Gastroenterology, Hepatology and Nutrition (SIGENP), Young Investigator Forum, 20-21 March 2011, Rome, Italy
18. “Gut Microbiota: the role of Probiotics”, Italian Federation of Medical Pediatrics (FIMP), 4<sup>th</sup> National Congress, 30 September – 2 October 2010, Florence, Italy
19. “Intestinal TM7 bacterial phylogenies in active inflammatory bowel disease”, Italian Society for Pediatric Gastroenterology, Hepatology and Nutrition (SIGENP), Young Investigator Forum, 20-21 March 2009, Rome, Italy

## ORAL PRESENTATIONS

1. “Bacterial, fungal and viral gut microbiota signatures predict immunotherapy response in cutaneous and mucosal melanoma patients”, Italian Society for Microbiology (SIM), 51<sup>th</sup> National Congress, 24-27 September 2023, Cagliari, Italy
2. “Lungs from COVID-19 patients harbor a potential immunogenic microbiota”, Italian Society for Microbiology (SIM), 49<sup>th</sup> National Congress, 20-21 September 2021, Virtual Congress, Italy
3. “Impact of SARS-CoV-2 infection on oral microbiota and local immune response”, Italian Society for Microbiology (SIM), 48<sup>th</sup> National Congress, 21-22 September 2020, Virtual Congress, Italy
4. “UNICANCER: French prospective cohort study of treatment-related chronic toxicity in women with localized breast cancer (CANTO): Microbiota biologic sub-study”, ONCOBIOME 1st Meeting, 15-17 January, 2019, Palazzo del Rettorato, Turin, Italy
5. “Cancer - associated intestinal dysbiosis: towards a definition”, EMBO-EMBL Symposium –The Human Microbiome-, September 16-19, 2018, EMBL Training Center, Heidelberg, Germany
6. “Pancreas insufficiency in cystic fibrosis patients drives a different fecal microbiota and metabolic phenotype”, 3<sup>rd</sup> World Congress on Targeting Microbiota, October 21-23, 2015 – Institut Pasteur, Paris, France
7. “Metagenomics and metabolomics in Cirrhotic Hepatitis patients”, Society for Microbial Ecology and Disease (SOMED), 38<sup>th</sup> International Congress, 11-13 October 2015, Verona, Italy
8. “Dysbiotic microbiota in liver cirrhosis relates to systemic inflammation”, 2<sup>nd</sup> World Congress on Targeting Microbiota, October 16-17, 2014 – Institut Pasteur, Paris, France
9. “Innovative therapeutic strategies based on the dual activity, probiotic and antibiotic, of the bacterial predator *Bdellovibrio bacteriovorus*”, Italian Society for Microbiology (SIM), 41<sup>th</sup> National Congress, 13-16 October 2013, Riccione, Italy
10. “Cystic fibrosis transmembrane conductance regulator (*CFTR*) allelic variants relate to shifts in fecal microbiota of cystic fibrosis patients”, European Cystic Fibrosis Society (ECFS), 36<sup>th</sup> International Congress, 12-15 June 2013, Lisbon, Portugal
11. “Development of innovative therapeutic strategies based on the antibacterial activities of *Bdellovibrio* predator bacteria”, X Autumn Convention of Italian Cystic Fibrosis Foundation, 29 November – 1 December 2012, Verona, Italy
12. “*CFTR* allelic variants are related to compositional shifts in fecal microbiota of Cystic Fibrosis patients”, Italian Society for studies on Cystic Fibrosis (SIFC), XVIII National Congress, 14-17 November 2012, Tirrenia, Italy
13. “Epigenetic responses after bacterial challenge: role of gamma- and epsilon-proteobacteria in IBD pediatric patients”, Italian Society for Pediatric Gastroenterology, Hepatology and Nutrition (SIGENP), XIX National Congress, 11-13 October 2012, Parma, Italy
14. “Cystic Fibrosis transmembrane conductance regulator (*CFTR*) allelic variants relate to shifts in fecal microbiota of cystic fibrosis patients”, Italian Society for Microbiology (SIM), 40<sup>th</sup> National Congress, 7-10 October 2012, Riccione, Italy

15. “*Achromobacter xylosoxidans* an emerging pathogen in Cystic Fibrosis patients: from molecular characterization to development of innovative therapeutic strategies based on the antibacterial activities of *Bdellovibrio* predator bacteria”, IX Autumn Convention of Italian Cystic Fibrosis Foundation, 1-3- December 2011, Verona, Italy
16. “Early Epigenetic Responses After Pathogen Exposure: Role of Gamma- and Epsilon-Proteobacteria in Pediatric Inflammatory Bowel Diseases”, Italian Society for Pediatric Gastroenterology, Hepatology and Nutrition (SIGENP), XVIII National Congress, 13-15 October 2011, Padova, Italy
17. “Molecular Characterization of Fecal Microbiota and Metabolic Profiles Association in Cystic Fibrosis Patients”, Italian Society for Microbiology (SIM), 39<sup>th</sup> National Congress, 3-6 October 2011, Riccione, Italy
18. “Mucosa-Associated Microbiota in IBD Pediatric Patients, and Metabolic Phenotypes”, European Society for Pediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN), 44<sup>nd</sup> International Congress, 25-28 May 2011, Sorrento, Italy
19. “Molecular characterization of mucosa-associated intestinal microbiota and intestinal innate immune response: searching for additional mechanisms in pediatric Crohn’s disease”, Ninth Annual Broad Medical Research Program (BMRP) Investigator Meeting, 10-11 February 2011, Los Angeles, California, USA
20. “Dominant Intestinal Mucosa-Associated Microbiota in Pediatric Patients with Inflammatory Bowel Disease”, Italian Society for Microbiology (SIM), 38<sup>th</sup> National Congress, 17-20 October 2010, Riccione, Italy
21. “Molecular characterization of mucosa-associated intestinal microbiota and intestinal innate immune response: searching for additional mechanisms in pediatric Crohn’s disease”, Eighth Annual Broad Medical Research Program (BMRP) Investigator Meeting, 18-19 February 2010, Los Angeles, California, USA
22. “Microbiota and Genetic Adaptation in Pediatric Patients with Inflammatory Bowel Disease”, Italian Society for Pediatric Gastroenterology, Hepatology and Nutrition (SIGENP), XVI National Congress, 22-24 October 2009, Giardini Naxos, Italy
23. “Study of the Pathoadaptive Mutations in *fimH* Gene of *Escherichia coli*”, Italian Society for Microbiology (SIM), 37<sup>th</sup> National Congress, 11-14 October 2009, Turin, Italy
24. “Microbiota and Genetic Adaptation in Pediatric Patients with Inflammatory Bowel Disease”, European Society for Pediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN), 42<sup>nd</sup> International Congress, 3-6- June 2009, Budapest, Hungary
25. “Dominant Mucosa-Associated Microbiota in Celiac Children at Diagnosis and after Gfd”, Italian Society for Microbiology (SIM), 36<sup>th</sup> National Congress, 12-15 October 2008, Rome, Italy

## TEACHING EXPERIENCE (lessons held in English, French, Italian)

### Teaching courses - total 350 hours / year (University of Trieste):

2020-present

- Medicine and Surgery (2nd academic year)
- Dentistry (2nd academic year)
- Laboratory Technicians (1st, 2nd, 3rd academic year)
- Technicians of prevention in the workplace (1st academic year)
- Dental hygiene (1st academic year)
- Nursery (1st academic year)
- Health assistance (1st academic year)

Received 9.2/10 average rating for teaching effectiveness from student surveys

**Teaching courses - total 24 hours / year (Sapienza University of Rome):** Undergraduate ‘Molecular Methods in Microbiology’ (Teaching Course, Laboratory and Discussion section); Undergraduate ‘Laboratory Microbiology’ (Laboratory section).

2009-2016

<b>Undergraduate Student Instructor (Sapienza University of Rome):</b>	2010-2017
<ul style="list-style-type: none"> <li>- Lectures on 'Microbiome and metagenomic analysis' for undergraduate students of the Molecular Microbiology course in Medical Biotechnologies.</li> <li>- Bioinformatic training laboratory for undergraduate students of the Molecular Microbiology course in Medical Biotechnologies: use of Linux shell, Python shell, microbial datasets, repositories and available pipelines for metagenomic characterization of microbial communities.</li> </ul>	
<b>Master Lecturer:</b>	
<ul style="list-style-type: none"> <li>● "<i>Microbiome and probiotics</i>". Lecture for Master students in 'Oral medicine and special needs patients', Director: Prof. Matteo Biasotto – Trieste, Italy</li> </ul>	2021-present
<ul style="list-style-type: none"> <li>● "<i>Metagenomic approaches in bacteriology and virology</i>" for Master students in 'Medical Virology', Director: Prof. Guido Antonelli and Prof. Carolina Scagnolari - Rome, Italy</li> </ul>	2019-present
<ul style="list-style-type: none"> <li>● "<i>Nutrition and cancer: experimental approaches</i>". Lecture for Master students in 'Dietary behavior and related diseases' Code T4ALIMEA, Director: Prof. Michèle Chabert – Paris, France</li> </ul>	2020-2024
<ul style="list-style-type: none"> <li>● "<i>Nutrition and cancer: experimental approaches</i>". Lecture for Master students in 'Nutraceuticals and modulation of the intestinal microbiota in oncology', Director: Prof. Massimo Libra – Catania, Italy</li> </ul>	2020-2021
<b>CEM Courses Lecturer:</b>	
School of permanent formation "Human Microbiome. Physiopathology and therapeutic approaches". Scientific Director: Prof. Marco Astegiano.	2021
"Metagenomics and culturomics: complementary aspects of the <i>omic</i> microbiology". Scientific Directors: Prof. Valerio Iebba	2021

## COMMITTEE MEMBER

<b>PhD in "Complex Systems for Life Sciences" (University of Turin)</b>	23rd July 2021
Antonio Francavilla, BSc	
Project: Small non-coding RNAs in Gastrointestinal Diseases: an investigation on Celiac Disease and Colorectal Cancer	
Tutor: Prof. Raffaele A. Calogero, Prof. Alessio Naccarati	
Invited by Prof. Alessio Naccarati	
<b>PhD in "Basic and Applied biomedical Sciences" (University of Catania)</b>	25th November 2021
Invited by Prof. Massimo Libra	
<b>School of Specialization in Microbiology and Virology (University of Trieste)</b>	2020-present
Organizers: Prof. Manola Comar, Dr. Valerio Iebba	
<b>School of Specialization in Pharmacology (University of Trieste)</b>	2020-present
Organizer: Prof. Giuliana Decorti	
<b>School of Specialization in Geriatrics (University of Trieste)</b>	2020-present
Organizer: Prof. Michela Zanetti	

## AWARDS AND HONORS

Qualification for Assistant Professor in France: qualification #16265292996, Maître de Conférences, 65-Biologie cellulaire, obtained on 3rd February 2016 and valid till 31st December 2020	2016
Ben Gustaffson Award for best oral communication, Society for Microbial Ecology and Disease (SOMED), 38 <sup>th</sup> International Congress, 11-13 October 2015, Verona, Italy	2015
Young Investigator Award (Under 40) for one of the four best projects among 80 presented at international level at Italian Pasteur Institute – Cenci Bolognetti Foundation	2014

NOVARTIS Prize 2013 for the Best Scientific Paper on the theme: 'Pathogenic microorganisms: functional genomics, pathogenic mechanisms, vaccines', Italian Society for General Microbiology and Microbial Biotechnology (SIMGBM), XXX National Congress, 18-21 September 2013, Ischia, Italy	2013
DICOFARM Prize 2011 for the Best Young Investigator Research Project, Italian Society for Pediatric Gastroenterology, Hepatology and Nutrition (SIGENP), XVIII National Congress, 13-15 October 2011, Padua, Italy	2011
Poster of Distinction, European Society for Pediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN), 44 <sup>nd</sup> International Congress, 25-28 May 2011, Sorrento, Italy	2011
Best Oral Communication, Italian Society for Pediatric Gastroenterology, Hepatology and Nutrition (SIGENP), XVI National Congress, 22-24 October 2009, Giardini Naxos, Italy	2009

## EVENT ORGANIZATION (Organizer or Chairman)

### Organizer

- "Micro-informatics - A bioinformatics course for microbiologists - Second Edition", Italian Society for Microbiology (SIM) Advanced School, organizer and coordinator of the Metagenomics module, May-June 2025.
- "Micro-informatics - A bioinformatics course for microbiologists", Italian Society for Microbiology (SIM) Advanced School, organizer and coordinator of the Metagenomics module, 4th April 2024.
- "Metagenomics and culturomics: complementary aspects of the omic microbiology", University of Trieste, 11 December 2020.
- "Helicobacter pylori and gastric oncogenesis, impact of the host genotoxic response". Prof. Eliette Touati, Unit of Helicobacter Pathogenesis, Department of Microbiology, Institut Pasteur, Paris, France. Seminar of Institut Pasteur Rome – Cenci Bolognetti Foundation, 23 June 2016.
- Italian Society for Microbiology (SIM) National Congress 2015; Naples, Italy

### Chairman

- Young Researchers in Life Sciences YRLS – 2019 edition, Paris, France (Judge and Chairman)
- Italian Society for Microbiology (SIM) National Congress 2015; Naples, Italy

## NGS, RAW DATA DEPOSITED (DOI provided if published paper) - last five years

<b>Data type</b>	<b>Title</b>	<b>Accession</b>	<b>Samples</b>	<b>Year</b>
NGS - shotgun (.fastq.bz2)	Custom scoring based on ecological topology of gut microbiota associated with cancer immunotherapy outcome doi: 10.1016/j.cell.2024.05.029	BioProject: PRJNA1023797	499	2024
NGS - 16S (.fastq.gz)	Iron capture through CD71 drives perinatal and tumor-associated Treg expansion doi: 10.1172/jci.insight.167967	BioProject: PRJNA1091183	18	2024
NGS - shotgun (.fastq.bz2)	Intestinal low dose radiotherapy improves the efficacy of PD-L1 blockade in metastatic cancer patients	BioProject: PRJNA1058463	233	2023
NGS - 16S (.fastq.gz)	Metabolic tumor burden assessed by [18F] FDG - PET CT scan as a predictive biomarker for immune checkpoint blockers in advanced NSCLC and its biological correlates: a multicentric study doi: 10.1158/1078-0432.CCR-24-1993	BioProject: PRJNA1042648	60	2023
NGS - 16S (.fastq.gz)	Fecal microbiota composition is related to response to CDK4/6-inhibitors in metastatic breast cancer: a prospective cross-sectional exploratory study doi: 10.1016/j.ejca.2023.112948	BioProject: PRJNA946762	14	2023

NGS - 16S (.fastq.gz)	Oral and blood microbiota compositional changes relate to interferon and endothelial genes expression in COVID-19 patients	BioProject: PRJNA982049	85	2023
NGS - shotgun (.fastq.bz2)	Klebsiella pneumoniae contributes to altered cytotoxicity of thiopurines in vitro: possible implications of biotransformation and bacterial metabolism	BioProject: PRJNA977201	8	2023
NGS - 16S (.fastq.gz)	Formyl peptide receptor-1 (FPR1) represses intestinal oncogenesis doi: 10.1080/2162402X.2023.2237354	BioProject: PRJNA976931	117	2023
NGS - shotgun (.fastq.bz2)	Cancer induces a stress ileopathy depending on beta-adrenergic receptors and promoting dysbiosis that contribute to carcinogenesis doi: 10.1158/2159-8290.CD-21-0999	BioProject: PRJNA785093	405	2021
NGS – 16S (.fastq.gz)	Intestinal Akkermansia muciniphila predicts clinical response to PD-1 blockade in advanced non-small cell lung cancer patients doi: 10.1038/s41591-021-01655-5	BioProject: PRJNA782662	47	2021
NGS – 16S (.fastq.gz)	Environmental signals modify gut microbiome and metabolome enhancing neural plasticity through short-chain fatty acids doi: 10.1038/s42003-022-03468-9	BioProject: PRJNA722696	20	2021
NGS – 16S (.fastq.gz)	Profiling of oral microbiota and cytokines in COVID-19 patients doi: 10.3389/fmicb.2021.671813	BioProject: PRJNA692359	41	2021
NGS – 16S (.fastq.gz)	Structural variations of vaginal and endometrial microbiota: hints on female infertility doi: 10.3389/fcimb.2020.00350	BioProject: PRJNA603234	68	2020

## PROFESSIONAL SOCIETIES

American Association for Cancer Research (AACR); Society for Immunotherapy of Cancer (SITC); American Society for Microbiology (ASM); European Association for Cancer Research (EACR); Italian Society for Microbiology (SIM), Italian Society for Cancer (SIC).

## PROFESSIONAL SERVICE

### Editorial activity

**Journal Reviewer:** American Journal of Gastroenterology; Applied and Environmental Microbiology; Applied Microbiology; Biochemie; BMC Microbiology; Canadian Journal of Microbiology; Digestive and Liver Disease; Frontiers in Cellular and Infection Microbiology; Frontiers in Microbiology; Infection Genetics and Evolution; Journal of Pediatric Gastroenterology and Nutrition; Microbiome; Microorganisms; Scientific Reports; World Journal of Gastroenterology.

**Grant Proposal Reviewer:** Broad Medical Research Program (BMRP) – 4 proposals; Austrian Science Fund (FWF) – 1 proposal; Pasteur Institute Paris – 2 proposals; National Science Centre Poland - 2 proposals; Human Frontier Science Program (HFSP) - 1 proposal; International Center for Genetic Engineering and Biotechnology (ICGEB) - 1 proposal.

### Other Professional Service:

- Member of the scientific board of “Micro-informatics - A bioinformatics course for microbiologists”, Italian Society for Microbiology (SIM) Advanced School
- Member of International Consortia for the following projects: H2020 ONCOBIOME (<https://cordis.europa.eu/project/id/825410/it>); Million Microbiome of Humans Project (MMHP) (<https://db.cngb.org/mmhp/memberships>).
- Participant of the European IHMCSA Human Microbiome Action WP6 Delphi survey "Consensus on Microbiome-based biomarkers validation process".

- Member of the ‘Pediatric Gut Microbiota Study Group’ of the Italian Society for Gastroenterology (SIGE, 2009); Member of the ‘AIEC Study Group’ established by Enterome Company, Paris, France.
- Member of the “Fecal Microbiota Transplant (FMT) Group” of Sapienza University of Rome and Policlinico Umberto I, Rome.

#### **Community Outreach:**

- SHARPER - Night of Researchers, Divulgative lesson on microbiota and diseases
- Summer Formation Modules for high school students, 2020-present, Lesson on “The role of microbiota in sexually transmitted diseases”, Trieste, Italy
- Intervention as scientific speaker and artistic performer (piano playing) during ESOF2020, Trieste, Italy.
- Lecturer for Bristol-Meyer-Squibb (BMS), “How to analyze microbiome studies”
- Valerio Iebba. “Il Microbiota: un nuovo mondo inesplorato”. (May 2018) IBSA Foundation (Lugano, Switzerland, <http://www.ibsafoundation.org/it>) and Institut Pasteur – Cenci Bolognetti Foundation (Roma, Italy, <http://www.istitutopasteur.it>). Carocci editor and printing (Roma, Italy, <http://www.carocci.it>). *Synopsis*: Divulgation book (in Italian language) for elementary/middle/high school about the different microbiota inhabiting our body districts and their functions. The book is accompanied by a cartoon designed by the Italian School of Comics and Cartoons, to achieve better communication and divulgation especially for the kids.