

# ANDREINA BAJ, MD, PHD

## Curriculum Vitae

Home address	Work address
Via Gradisca 31 21100 Varese (Italy)	Laboratory of Clinical Microbiology Ospedale di Circolo e Fondazione Macchi Viale Borri 57 21100 Varese (Italy)  Laboratory of Microbiology University of Insubria Via Monte generoso 47 2100 Varese (Italy)
Mobile 339 5045686	E mail: <a href="mailto:andreina.baj@uninsubria.it">andreina.baj@uninsubria.it</a> <a href="mailto:andreina.baj@asst-settelaghi.it">andreina.baj@asst-settelaghi.it</a>

PROFILE	
Nationality	Italian
Date of Birth	25/09/1971
ORCID ID	<a href="https://orcid.org/0000-0003-0088-2712">https://orcid.org/0000-0003-0088-2712</a>
Scopus ID	55982137100
Web of Science ID	C-8047-2013
EMPLOYMENT HISTORY	
2022	Achievement of the National Scientific qualification as associate in the Italian higher education system, in the call 2021/2023 (Ministerial Decree n. 553/2021 and 589/2021) for the disciplinary field of 06/A3 - Microbiology and clinical microbiology.
2006 -present	Assistant Professor (Medical Microbiology), Faculty of Medicine, University of Insubria, Varese, Italy
2007-present	Medical Chief Officer at ASST Sette Laghi "Circolo Hospital and Macchi Foundation", Varese, Italy, Laboratory of Microbiology and Virology

PUBLICATIONS	
Total number of publications in peer-review journals	91

Total number of citations:	Scopus: 2965
<b>H index</b>	Scopus: 26

<b>EDUCATION</b>	
2006	Ph.D. degree "Internal Medicine and Medical Therapy", University of Pavia. Experimental thesis: "Activity of antiviral compounds against coxsackievirus B4: effects on acute and persistent infection"
2005	Post graduate degree at The University School for Advanced Studies, University School for Advanced Studies, Pavia (January 14th, 2005).
2002	Specialization degree "cum laude" in Microbiology and Virology, University of Insubria. Experimental thesis: "In vitro study on HIV cytopathic effect on epithelial cells" (March 4 <sup>th</sup> , 2002)
1998	State examination exam for the exercise of the medical profession and registration with the Order of Physicians and Surgeons of the Province of Varese (register n. 05525, July 7h 1998)
1997	M.D. degree "cum laude", University Medical School of Pavia. Experimental thesis: "Coxsackievirus B and human kidney cells: induction of differentiated cytopathic effects on glomerular and tubular cells".
<b>TEACHING ACTIVITY</b>	
<b>2005-present</b>	Professor of Microbiology in the courses of Medicine, Dentistry, Dental Hygiene, Nurses; Laboratory Technician; Technician of Cardiocirculatory Physiopathology and Cardiovascular Perfusion, Physiotherapist, University of Insubria; Professor of Microbiology in the Specialization School of Microbiology and Virology
<b>2015-present</b>	Professor of Microbiology in the Specialization School of Pharmacology, Pathological Anatomy, Hygiene, Infectious Diseases, Clinical Pathology, Pneumology, Microbiology and Virology
<b>CLINICAL ACTIVITY</b>	
2006-present	Medical executive, ASST Sette Laghi "Circolo Hospital and Macchi Foundation, Laboratory of Medical Microbiology and Virology
2002-2006	PhD student, ASST Sette Laghi "Circolo Hospital and Macchi Foundation, Laboratory of Medical Microbiology and Virology
1997-2002	Postgraduate student, ASST Sette Laghi "Circolo Hospital and Macchi Foundation, Laboratory of Medical Microbiology and Virology.

RESEARCH FELLOWSHIP ABROAD	
2010	Clinical research at the Institute of Human Virology, Baltimore, Maryland, USA (Prof. Robert Gallo's lab), with the project "Poliovirus persistence in patients with Post-Polio Syndrome"
<p><b>MAIN RESEARCH AREAS</b></p> <ul style="list-style-type: none"> <li>• Study of the persistence of Torque Teno Virus (TTV) and its interaction with the immune system, with the aim of elucidating the mechanisms regulating human virome stability and establishing TTV as a functional marker of host immune status. Given the limited understanding of viral persistence—partly due to the lack of suitable experimental models—advanced 3D cellular systems are developed and applied to recapitulate complex tissue microenvironments and diverse immune conditions, including immunosuppression. Integrating advanced cell culture, molecular virology, and experimental immunology approaches, the research focuses on TTV replication and persistence, mechanisms of immunomodulation, and determinants of viral entry. This work supports the development of virome-based diagnostic tools and promotes the use of TTV as a biomarker of immunocompetence across clinical settings, including transplantation, immunosuppressive therapies, and oncology, within a strongly translational framework.</li> <li>• study of persistent viral infections, with regard to pathogenetic mechanism of persistence and its relationship with tissue damage and the consequent clinical onset. In this field the main research activity was addressed to the etiopathogenetic correlation between persistent enteroviral infection and juvenile diabetes and post-polio syndrome.</li> <li>• study of cellular and molecular mechanisms involved in inflammatory intestinal disease; object of the study is the link between microbiota modifications and derangements of enteric neuronal circuitries leading to the development of enteric neuropathies underlying intestinal ischemia and inflammation.</li> <li>• Development of molecular test for identification and quantification of SARS CoV-2 in different samples</li> <li>• Identification of SARS-CoV-2 by rapid salivary test: pilot study for a mass screening program, ASST Sette Laghi - Ospedale di Circolo di Varese - S.C. Odontostomatologia (non pharmacologic interventional study)</li> <li>• Identification of SARS CoV-2 in urine samples of COVID-19 patients, ASST Sette Laghi - Ospedale di Circolo di Varese - S.C. Laboratory of Microbiology (non pharmacologic interventional study)</li> <li>• Identification of anti-SARS-CoV-2 antibodies by ELISA e Lateral Flow Assay in contextual saliva and serum samples, ASST Sette Laghi - Ospedale di Circolo di Varese - S.C. Odontostomatologia (non pharmacologic interventional study)</li> </ul>	

RESEARCH GRANTS	
2023	Agreement with IBSA Institut Biochimique SA (Switzerland): development of a molecular test to identify polyomaviruses
2022	<b>Fondazione Regionale della Ricerca Biomedica, Regione Lombardia</b> Identification of Novel molecules Supporting the Impact of $\beta$ -lactams against clinically-relevant Gram-Negative multidrug resistant Organisms. Scientific supervisor of the ASST Settelaghi.
2020	Agreement with IBSA Institut Biochimique SA (Switzerland): development of a molecular test to identify SARS CoV-2.
2019-2020	Scientific supervisor of the University of Insubria scholarship "Correlation between HuC/D modifications and BDNF and TrkB levels in enteric nervous system of adolescent mouse after dysbiosis induced by antibiotic chronic treatment"
2019	PRIN 2017. Host-breast tumour microenvironment: study of key molecules secreted by stromal and tumour cells and their role on the modification of extracellular matrix, with special attention on hyaluronan, and on the enhancement of breast cancer progression.

2019	Banca del Monte Foundation: project "Study of physiopatological mechanisms underlying functional diseases of gastroenteric system"
2015 – present	Research project supported by FAR (Fondi di Ricerca di Ateneo), University of Insubria
2013-2014	Pathogenetic role of enteroviruses in type 1 diabetes" (Juvenile Diabetes Research Foundation, JRDF, New York)
2011-2013	Etiology of late consequences of polio" (Regione Lombardia)
2011-2012	Viral pathogenesis of the post-polio syndrome" (Fondazione Comunitaria del Varesotto ONLUS)
2008-2011	PRIN 2007. "Molecular analysis of farmacoresistance determinants.
2010-2012	Enteroviruses as triggering factors of type 1 diabetes and associated autoimmune thyroid disorders in children" (Fondazione Cariplo)
2008-2010	Persisting noninfectious fragments of poliovirus in PPS patients" (Post-Polio Health International)
<b>MAIN COLLABORATION AND RESEARCH PROJECTS</b>	
2024-present	Collaboration with the Organ Transplant Research and Development Center on donor-derived neoplasms.
2025-present	Scientific supervisor of PhD student in Experimental and Translational Medicine, University of Insubria. Project: "3D Cellular Models for Studying Torquetenovirus Persistence in Complex Immunological Microenvironments".
2022-2023	Scientific director of the departmental research grant "Epidemiology and virological characteristics of SARS CoV-2 infection in the province of Varese
2022-present	Scientific supervisor of PhD student in Experimental and Translational Medicine, University of Insubria. Project: "Role of bacteriophage and commensal bacteria cross-talk in a murine model of Inflammatory Bowel Disease".
2021-present	Scientific supervisor of PhD student in Experimental and Translational Medicine, University of Insubria. Project: "The measure of total species-specific Torque Teno Virus (TTV) Viremia as a predictive marker of immune system function"
2020	National project (Società per Azioni Esercizi Aeroportuali- SEA): "Memorandum of understanding scientific study on screening COVID-19"
2020	Scientific supervisor of COVID-19 project at University of Insubria: "Rapid Salivary Test suitable for a mass screening program to detect SARS-CoV-2: A diagnostic accuracy study
2020 -present	Collaboration with Department of Medicine and Surgery, University of Insubria and Ospedale di Circolo and Fondazione Macchi, Varese: Prof. Claudio Azzolini (Ophtalmology), Prof Daniela Negrini and Prof Andrea Moriondo (Physiology), Dr. Viviana Orlandi (Microbiology), Prof. Paolo Grossi e Dr.ssa Daniela Dalla Gasperina (Infectious Diseases), Prof. Giulio Carcano (Surgery), Prof. Fausto Sessa and Dr.ssa Anna Maria Chiaravalli, (Pathological Anatomy), Prof. Angelo Tagliabue and Dr.Lorenzo Azzi (Dentistry), Prof Davide Vigetti and prof. Alberto Passi (Biochemistry), Dr.ssa Cristina Giaroni (Pharmacology)
2020-present	Collaboration with Dott. Gustavo Di Lallo (Microbiology, Tor Vergata University, Rome)

2017 -present	Collaboration with Dott.ssa Maria Cecilia Giron (Pharmacology, University of Padua)
2011 -2015	Collaboration with the Network for Pancreatic Organ Donors with Diabetes (nPOD), Juvenile Diabetes Research Foundation (JDRF), University of Florida
2011-2014	Collaboration with Dr. Oscar Diaz-Horta, John P. Hussman Institute for Human Genomics University of Miami, Miller School of Medicine
2010-2015	Collaboration with Dr.ssa Jean Carr, Institute of Human Virology (IHV), University of Maryland, School of Medicine, Baltimore.
2006-2009	Collaboration with Prof. Salvatore Monaco, Neurology, Policlinico G.B. Rossi di Verona Borgo Roma
2006-2009	Collaboration with Prof. Gianluigi Zanusso, University of Verona, Department of Neuroscience
2003-2008	Collaboration with Prof. Takashi Onodera, University of Tokyo
1999-2002	Collaboration with Prof. Giovanni Camussi (renal immunopathology), Turin University
<b>RESEARCH AWARDS</b>	
<b>2020</b>	"TRPV4 channels dominant role in the temperature modulation of intrinsic contractility and lymph flow of rat diaphragmatic lymphatics": selected by The American Physiological Society for a collection from the APS that showcases some of the best recently published articles in physiological research.
<b>2008</b>	Post-Polio Health International Award-2008 (St. Louis, MO): "Persisting noninfectious fragments of poliovirus in PPS patients"
<b>PATENT</b>	
2020	Fasano, Mauro; Alberio, Tiziana; Azzi, Lorenzo; Baj, Andreina; Lualdi, Marta Rapid assay for in vitro diagnosis of SARS-CoV-2 infection in a biological fluid Dep. N 102020000006400
<b>PARTICIPATION TO ACADEMIC BOARDS</b>	
2025 to present	President of the Joint Faculty–Student Committee (CPDS) of the School of Medicine, University of Insubria
2024 to present	Member of the scientific committee of the Research Center for the Study and Development of Organ Transplantation, University of Insubria
2023 to present	Director of School of Specialization in Microbiology and Virology, University of Insubria.
2023 to present	Member of the Committee for Internal Quality Assurance of Research and Third Mission (AiQuaR) Department of Medicine and Technological Innovation, University of Insubria
2023 to present	Appointment as a member of the Triennial Commissions for the definition of the criteria for the distribution of the FAR University Research Fund, University of Insubria
2023 to present	Member of The Commission for Internal Quality Assurance (AiQua) - Single-Cycle Master's Degree Course in Medicine and Surgery

2020 to present	Member of The Commission for Internal Quality Assurance (AiQua) - three-year CdS in Dental Hygiene
2021 to present	Member of the Teaching Board of the PhD in Experimental and Translational Medicine, University of Insubria
2019-2021	Responsible of School of Specialization in Microbiology and Virology, University of Insubria.
2013-2016	Member of the Teaching Board of the PhD in Experimental and Translational Medicine, University of Insubria
2006 to present	Professor of Microbiology in the Specialization School of Pharmacology, pathological anatomy, Hygiene, Infectious Diseases, Clinical Pathology, Pneumology
2006 to present	Member of the degree board in Medicine and Surgery course
<b>EDITORIAL ACTIVITY</b>	
2023	Review editor: Frontiers in Immunology - Vaccines and Molecular Therapeutics
2023	Review editor: Frontiers in Immunology- Viral immunology
2020	Contribution by invitation: volume 176 "The Microbiome", Elsevier Progress in Molecular Biology and Translational Science
2020 to present	Guest Associate Editor: Cells- Gut microbiota- derived metabolites and host gut-brain communication
2020 to present	Guest Associate Editor: Frontiers in Endocrinology- Gut endocrinology
2021 to present	Associate Editor for Virology Journal, Clinical Virology section and Emerging Viruses section
2019 to present	Referee for international journals: Emerging Infectious Diseases, Scientific Reports, Vaccines, Pediatric Diabetes, Cells, Plos One, Future Virology, Virology Journal, International Journal of Molecular Sciences, Biology Letters, Frontiers in Cardiovascular Medicine, Emerging Microbes and Infections, Journal of Medical Virology
2020	Murray-Medical Microbiology-9 ed. Curatorship: Microscopy and in vitro culture, Molecular Diagnosis, Pseudomonas and related bacteria, Serologic diagnosis
2017	Murray-Medical Microbiology-8 ed. Curatorship: Microscopy and in vitro culture, Molecular Diagnosis, Pseudomonas and related bacteria, Serologic diagnosis
2013	Antonio Toniolo, Alessandro Salvatoni, Giovanni Federico, Giuseppe Maccari, Oscar Díaz-Horta, and Andreina Baj. Enteroviruses in Blood. In: K.W. Taylor, H. Hyoty, A. Toniolo, A.J. Zuckerman (eds.), Diabetes and Viruses, DOI 10.1007/978-1-4614-4051-2_15, © Springer Science+Business Media New York 2013
2007	Toniolo A, Baj A. Classificazione dei Batteri. In: Antonelli G, Clementi M, Poggi G, Rossolini G. Principi di Microbiologia Medica. p. 1-12, MILANO: Ambrosiana, ISBN: 9788808180735
<b>PUBLICATIONS</b>	

Publications in peer-reviewed scientific international journals: 91

National and international meetings: 70 (oral communications and posters)

H-index: 26, citations 2972 (Scopus, April 27th, 2026)

1. Bosi A., Banfi D., Capó J.D., Ponti A., Faggin S., Moro E., Caputi V., Bresesti I., Crema F., Giron M.C., Agosti M., Salvatore S., Baj A., Giaroni C. Sex-dependent alteration of the enteric neuromuscular function after antibiotic-induced dysbiosis in juvenile mice and effect of *Lactocaseibacillus rhamnosus* GG (2025) *Biomedicine and Pharmacotherapy*, 189, art. no. 118263
2. Vigezzi A., Brani P., Dalla Gasperina D., Azzi L., Giaroni C., Inversini D., Pettinato G., Massaad M., Carcano G., letto G., Baj A. Preclinical approaches in regenerative medicine for treating end-stage renal disease: a scoping review (2025) *Frontiers in Endocrinology*, 16, art. no. 1549744
3. Cianci R., Caldarelli M., Brani P., Bosi A., Ponti A., Giaroni C., Baj A. Cytokines Meet Phages: A Revolutionary Pathway to Modulating Immunity and Microbial Balance (2025) *Biomedicines*, 13 (5), art. no. 1202
4. Cianci R., Caldarelli M., Brani P., Bosi A., Ponti A., Giaroni C., Baj A. Role of the Virome in Vaccine-Induced Immunization (2025) *Vaccines*, 13 (9), art. no. 895
5. Bosi A., Baranzini N., Ponti A., Moretto P., Moro E., Crema F., Cianci R., Karousou E., Viola M., Passi A., Vigetti D., Baj A., Grimaldi A., Severgnini P., Giaroni C. Intestinal Ischemia/Reperfusion Injury Influences Hyaluronan Homeostasis in the Rat Brain (2025) *International Journal of Molecular Sciences*, 26 (20), art. no. 10064
6. Brani P., Manzoor H.Z., Spezia P.G., Vigezzi A., letto G., Dalla Gasperina D., Minosse C., Bosi A., Giaroni C., Carcano G., Maggi F., Baj A. Torque Teno Virus: Lights and Shades (2025) *Viruses*, 17 (3), art. no. 334
7. Dal Lago S., Brani P., letto G., Dalla Gasperina D., Gianfagna F., Giaroni C., Bosi A., Drago Ferrante F., Genoni A., Manzoor H.Z., Ambrosini A., De Cicco M., Quartarone C.D., Khemara S., Carcano G., Maggi F., Baj A. Torque Teno Virus: A Promising Biomarker in Kidney Transplant Recipients (2024) *International Journal of Molecular Sciences*, 25 (14), art. no. 7744
8. Eberhart T, Stanley FU, Ricci L, Chirico T, Ferrarese R, Sisti S, Scagliola A, Baj A, Badurek S, Sommer A, Culp-Hill R, Dzieciatkowska M, Shokry E, Sumpton D, D'Alessandro A, Clementi N, Mancini N, Cardaci S. ACOD1 deficiency offers protection in a mouse model of diet-induced obesity by maintaining a healthy gut microbiota. *Cell Death Dis.* 2024 Feb 1;15(2):105.
9. Azzolini C, Premi E, Donati S, Falco A, Torreggiani A, Sicurello F, Baj A, Azzi L, Orro A, Porta G, Azzolini G, Sorrentino M, Melillo P, Testa F, Simonelli F, Giardina G, Paolucci U. Ten Years of Experience With a Telemedicine Platform Dedicated to Health Care Personnel: Implementation Report. *JMIR Med Inform.* 2024 Jan 26
10. Biagini D, Oliveri P, Baj A, Gasperina DD, Ferrante FD, Lomonaco T, Ghimenti S, Lenzi A, Bonini A, Vivaldi F, Oger C, Galano JM, Balas L, Durand T, Maggi F, Di Francesco F. The effect of SARS-CoV-2 variants on the plasma oxylipins and PUFAs of COVID-19 patients. *Prostaglandins Other Lipid Mediat.* 2023 Dec;169:106770
11. Piralla, A., Mojoli, F., Pellegrinelli, L., (...), Baj, A., Baldanti, F., Pariani, E. Impact of SARS-CoV-2 Omicron and Delta variants in patients requiring intensive care unit (ICU) admission for COVID-19, Northern Italy, December 2021 to January 2022. *Respiratory Medicine and Research*, 2023, 83.
12. Morreale, Chiara; Giaroni, Cristina, Baj, Andreina, Folgori, Laura,

- Barcellini, Lucia; Dhimi, Amraj, Agosti, Massimo, Bresesti, Ilia. Effects of Perinatal Antibiotic Exposure and *Neonatal Gut Microbiota*. *Antibiotics* Volume 12, Issue 2 February 2023 Article number 258
13. Focosi, Daniele; Baj, Andreina; Azzi, Lorenzo; Novazzi Federica; Maggi, Fabrizio. TTV viral load as a predictor of antibody response to SARS COV-2 vaccination. *Journal of Heart and Lung Transplantation* Volume 42, Issue 2, Pages 143 – 144. February 2023
  14. Novazzi, Federica; Giombini, Emanuela; Rueca, Martina; Baj, Andreina; Fabeni, Lavinia; Genoni, Angelo; Ferrante, Francesca Drago, Gramigna, Giulia; Gruber, Cesare Ernesto Maria; Boutahar, Sara; Minosse, Claudia; Butera, Ornella. Genomic surveillance of SARS-CoV-2 positive passengers on flights from China to Italy, December 2022. *Euro surveillance*, Volume 28, Issue 21 January 2023
  15. Gianfagna F, Veronesi G, Baj A, Dalla Gasperina D, Siclari S, Drago Ferrante F, Maggi F, Iacoviello L, Ferrario MM. Anti-SARS-CoV-2 antibody levels and kinetics of vaccine response: potential role for unresolved inflammation following recovery from SARS-CoV-2 infection. *Scientific reports* 2022 12(1): 1-9.
  16. Stincarelli, M.A., Baj, A., Guidotti, B., Spezia, P.G., Novazzi, F., Lucenteforte, E., Tillati, S., Focosi, D., Maggi, F., Gianecchini, S. Plasma Torquetenovirus (TTV) microRNAs and severity of COVID-19. *Virology Journal* 2022, 19 (1), art. 79 .
  17. Spezia P.G., Baj A., Drago Ferrante F., Boutahar S., Azzi L., Genoni A., Dalla Gasperina D., Novazzi F., Dentali F., Focosi D., Maggi F. Detection of Torquetenovirus and Redondovirus DNA in Saliva Samples from SARS-CoV-2-Positive and -Negative Subjects (2022) *Viruses*, 14 (11)
  18. Focosi D., Novazzi F., Baj A., Maggi F. Monkeypox: An international epidemic (2022) *Reviews in Medical Virology* 32 (6), art. no. e2392
  19. Giron M.C., Baj A., Giaroni C. Editorial: Neuroendocrine signalling pathways along the microbiota-gut-brain axis in functional gut disorders (2022) *Frontiers in Endocrinology*, 13, art. no. 996382
  20. Salvini M., Damonte C., Mortara L., Maggi F., Bruno A., Pellegrini G., Mora B., Brociner M., Ingrassia A., Mattarucchi R., Bianchi B., Sirocchi D., Agnoli S., Rumi E., Merli M., Fossati A., Bassi S., Bombelli R., Gallazzi M., Borsani O., Baj A., Franchi M., Grossi P.A., Passamonti F. Immunogenicity and clinical efficacy of anti-SARS-CoV-2 vaccination in patients with hematological malignancies: Results of a prospective cohort study of 365 patients. (2022) *American Journal of Hematology*, 97 (8), pp. E321 - E324
  21. Bosi A, Banfi D, Bistoletti M, Catizzone LM, Chiaravalli AM, Moretto P, Moro E, Karousou E, Viola M, Giron MC, Crema F, Rossetti C, Binelli G, Passi A, Vigetti D, Giaroni C, Baj A. Hyaluronan Regulates Neuronal and Immune Function in the Rat Small Intestine and Colonic Microbiota after Ischemic/Reperfusion Injury. *Cells*. 2022 Oct 25;11(21):33
  22. Focosi, D., Novazzi, F., Baj, A., Ferrante, F.D., Boutahar, S., Genoni, A.P., Gasperina, D.D., Maggi, F. Sotrovimab-emergent resistance in SARS-CoV-2 Omicron: A series of three cases. *Journal of Clinical Virology Plus* 2022, 2 (3), art. no. 100097.
  23. Tanda ML, Ippolito S, Gallo D, Baj A, Novazzi F, Genoni A, Annoni M, Mancini N, Clementi N, Finzi G, Piantanida E, Premoli P, Lai A, Dalla Gasperina D, Maggi F, Uccella S. SARS-CoV-2 detection in primary thyroid sarcoma: coincidence or interaction? 2022, *Journal of endocrinological investigation*.
  24. Novazzi, F., Focosi, D., Baj, A., Ambrosini, A., Boutahar, S., Maggi, F. SARS-CoV-2 recombinant XN, Italy. *Journal of Clinical Virology Plus*

- 2022, 2 (3), art. no. 100084.
25. Baj, A., Gasperina, D.D., Focosi, D., Forlani, G., Ferrante, F.D., Novazzi, F., Azzi, L., Maggi, F. Safety and immunogenicity of synchronous COVID19 and influenza vaccination. *Journal of Clinical Virology Plus* 2022, 2 (3), art. no. 100082.
  26. Morreale, C., Bresesti, I., Bosi, A., Baj, A., Giaroni, C., Agosti, M., Salvatore, S. Microbiota and Pain: Save Your Gut Feeling. *Cells* 2022, 11 (6), art. no. 971.
  27. Novazzi, F., Baj, A., Pasciuta, R., Genoni, A., Drago Ferrante, F., Tripiciano, R., Catanoso, G., Focosi, D., Maggi, F. A CLUSTER OF SARS-COV-2 DELTA VARIANT OF CONCERN ADDITIONALLY HARBORING F490S, NORTHERN LOMBARDY, ITALY. *International Journal of Infectious Diseases* 2022,116, pp. 271-272.
  28. Bresesti, I., Salvatore, S., Valetti, G., Baj, A., Giaroni, C., Agosti, M. The Microbiota-Gut Axis in Premature Infants: Physio-Pathological Implications. *Cells* 2022, 11 (3), art. no. 379.
  29. Novazzi, F., Baj, A., Genoni, A., Focosi, D., Maggi, F. Expansion of L452R-Positive SARS-CoV-2 Omicron Variant, Northern Lombardy, Italy. *Emerging Infectious Diseases* 2022, 28 (6), pp. 1301-1302.
  30. Ietto, G., Mortara, L., Gasperina, D.D., Iovino, D., Azzi, L., Baj, A., Ageno, W., Genoni, A.P., Acquati, F., Gallazzi, M., Spina, G., Coco, G., Pierin, F., Noonan, D., Vigezzi, A., Monti, E., Iori, V., Masci, F., Franchi, C., Di Saverio, S., Carcano, G. Immune-Mediated Mechanisms in Patients Testing Positive for SARS-CoV-2: Protocol for a Multianalysis Study. *JMIR Research Protocols* 2022, 11 (1), art. no. e29892.
  31. Bosi A, Banfi D, Bistoletti M, Moretto P, Moro E, Crema F, Maggi F, Karousou E, Viola M, Passi A, Vigetti D, Giaroni C, Baj A. Hyaluronan: A Neuroimmune Modulator in the Microbiota-Gut Axis. 2021. *Cells* 2022, 11(1), 126
  32. Azzi L, Dalla Gasperina D, Veronesi G, Shallak M, Ietto G, Iovino D, Baj A, Gianfagna F, Maurino V, Focosi D, Maggi F. Mucosal immune response in BNT162b2 COVID-19 vaccine recipients. *EBioMedicine*. 2022 Jan 1;75:103788.
  33. Baj A, Zago C, Tamborini A, Colombo A, Cassani G, Rossi A, Pasciuta R, Novazzi F, Prestia M, Capuano R, Genoni A, Azzi L, Dalla Gasperina D, Spezia PG, Focosi D, Maggi F (2021). Performance Assessment of the LIAISON® SARS-CoV-2 Antigen Assay On Nasopharyngeal Swabs. *The new Microbiologica*, 44(4).
  34. Pariani E, Pasciuta R, Novazzi F, Baj A, Galli C, Pellegrinelli L, Bubba L, Cereda D, Puzelli S, Focosi D, Agosti M. How multiplex testing approach to respiratory viruses detection can enhance influenza surveillance. *Journal of Clinical Virology Plus*. 2021 Dec 1;1(4):100050.
  35. Baj A, Novazzi F, Pasciuta R, Genoni A, Ferrante FD, Valli M, Partenope M, Tripiciano R, Ciserchia A, Catanoso G, Focosi D, Maggi F. Breakthrough Infections of E484K-Harboring SARS-CoV-2 Delta Variant, Lombardy, Italy. *Emerg Infect Dis*. 2021 Dec;27(12):3180-3182.
  36. Novazzi F, Tadorelli S, Baj A, Focosi D, Maggi F. Asymptomatic SARS-CoV-2 Vaccine Breakthrough Infections in Health Care Workers Identified Through Routine Universal Surveillance Testing. *Ann Intern Med*. 2021 Oct 19:M21-3486
  37. Baj A, Novazzi F, Ferrante FD, Genoni A, Tettamanzi E, Catanoso G, Gasperina DD, Dentali F, Focosi D, Maggi F. Spike protein evolution in the SARS-CoV-2 Delta Variant of Concern: a case series from Northern Lombardy. *Emerg Microbes Infect*. 2021 Oct 15:1-10.

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