

FEDERICA FRASCA
Curriculum Vitae

Place Rome,
Date 01/02/2023

Part I – General Information

Full Name	Federica Frasca
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Part II – Education

Type	Year	Institution	Notes
University graduation	2015	Sapienza, University of Rome	Bachelor's Degree in "Scienze Naturali" – 108/110. Title of sperimental thesis: " <i>Variabilità del DNA mitocondriale nella popolazione cimbra della provincia di Verona</i> ".
	2018	Sapienza, University of Rome	Master's Degree in "Genetica e Biologica Molecolare nella Ricerca di Base e Biomedica" – 110/110 cum laude. Title of sperimental thesis: " <i>Caratterizzazione di una nuova popolazione di linfociti T CD8+ regolatori nel diabete mellito insulino – dipendente</i> ".
PhD	2022	Sapienza, University of Rome	PhD in "Life Science" (XXXIV cycle). Title of thesis: " <i>Viral infections in acute and chronic respiratory diseases: genetic diversity of viruses and interferon defence mechanisms</i> ".

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
2022	2023	Sapienza University of Rome	Post Doctoral research fellow (categoria B tipo I – SSD MED/07 nell'ambito del progetto di Ateneo 2020, numero di protocollo: RM120172B29590C6), carrying out the following research: " <i>Studio del ruolo degli interferon (IFN) di tipo I-III e della reattività in vitro alla stimolazione con IFN di tipo I nelle infezioni da citomegalovirus nei pazienti trapiantati in vista dello sviluppo di un nuovo modello clinico-diagnostico per identificare i pazienti trapiantati con un più alto rischio di infezione da citomegalovirus (CMV)</i> ".

IIIB – Other Appointments (Scientific Support, professional experience, and editorial activities)

Start	End	Position
2016	2018	Training for experimental Master's degree thesis at Immuno-Infectivology and Clinical Trials Research Area, Children's Hospital Bambino Gesù Research Institute of Rome, Italy.
2020	2020	Scientific support for ETHOS S.R.L. Company. Preparation of a report and prework material for virtual advisory board: " <i>Unmet clinical needs in management and treatment of nephropathic cystinosis</i> ".
2022	2022	Collaboration activity with B NATURAL S.R.L. Society (Corbetta, MI): " <i>Development of a protocol for the detection of the virucidal activity of Propolis</i> ".
From 2020		Peer Reviewer for "Archives of Virology" (Springer-Verlag GmbH Austria, part of Springer Nature)
From 2022		Editorial Assistant for "New Microbiologica", quarterly journal of basic and clinical microbiological sciences (Edizioni internazionali S.R.L. EDIMES, Edizioni Medico Scientifiche, Pavia).

Part IV – Teaching experience

Year	Institution	Lecture/Course
2019 – 2020	Sapienza, University of Rome	Cultore della Materia. Assistant of the course "Basi cellulari e molecolari della vita" (Dental Hygiene Bachelor Degree, Cassino).
2021 – 2022	Sapienza, University of Rome	Tutoring assignment for second level Master's in Molecular Virology, Department of Molecular Medicine (Onerous contract). Main topics of tutoring: " <i>Tecniche di Biologia Molecolare applicate allo studio dei virus; Tecniche di Biologia Cellulare applicate allo studio dei virus; Citofluorimetria nelle infezioni virali</i> ".
2020 – 2021	Sapienza, University of Rome	Tutoring assignment for Master's degree students of Pharmaceutical Chemistry and Technology course. Activities of tutoring: review of the main topics of the course of Molecular Biology and learning tests.
2018 – 2022	Sapienza, University of Rome	Teaching assignment, Second level Master's in Molecular Virology, Department of Molecular Medicine. Topic of the lectures: " <i>CRISPR/CAS9 per lo studio delle interazioni virus-ospite</i> "; " <i>Patogenesi molecolare dell'infezione da West Nile Virus</i> "; " <i>Il virus dell'Epatite E: un agente di zoonosi emergente</i> "; " <i>COVID-19: il punto sulle terapie e vaccini in uso</i> "; " <i>Analisi genetiche mediante Real Time PCR</i> ".

Part V – Society Memberships, Awards and Honors

Year	Title
2021	The 13rd Edition of ICAR -CROI Awards for young Italian Investigators. “ <i>Impairment of type I/III IFN response in the upper airways of SARS-CoV-2 patients</i> ” presented as Science Spotlight to Virtual CROI 2021.
2022	The 14 th Edition of ICAR-CROI Awards for young Italian Investigators. “ <i>Detection of circulating and airway autoantibodies to IFN in severe COVID-19 patients</i> ” and “ <i>Longitudinal study of anti-Spike antibodies in children after SARS-CoV-2 infection</i> ”.
2020 and 2022	Socio SIM (Società Italiana di Microbiologia)
2021 – 2022	Young Scientist Membership for ESCMID (European Society of Clinical Microbiology and Infectious Diseases)

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Part VIA – Grants as PI (principal investigator)

Year	Title	Program	Grant value
2020	<i>Characterization of type I/III IFN gene signature, delineation of virus-induced inflammasome activity and analysis of Th1/Th2 phenotype in severe acute respiratory syndrome coronavirus (SARS-CoV-2) infected patients.</i>	Research Projects Financing (Avvio alla Ricerca, tipo 1), Sapienza University of Rome. Role: Principal Investigator. Num. Prot. AR120172B6F1F6D9	1.000,00

Part VIB – Grants as I (investigator)

Year	Title	Program	Grant value
2019	<i>Dengue virus-mosquito-host interactions: assessing type I interferon mediated immune process and immunological effects of mosquito salivary glands on Dengue infection.</i>	2019 ACTIONS CONCERTÉES INTERPASTEURIENNES (ACIP), Pilot Project proposal, Pasteur Institute, Parise France. Role: component. <i>We planned to perform a comprehensive examination of IF-I activation in DENGUE virus infection, by integrating virological, immunological, clinical, and entomological data on IFN gene/protein signatures and frequencies/function of specific immune-cell subsets.</i>	49.000,00
2019	<i>Determination of Interferon stimulated genes inhibiting mouse papillomavirus replication in mouse keratinocytes and mediating in vivo anti papillomavirus response</i>	Research Projects Financing, Sapienza University of Rome. Role: component. (Num. Prot. RP11916B6EC60AF3).	3.000,00

2021	<i>Development of a new integrative approach for monitoring SARS-CoV-2 infection-induced versus vaccine-acquired innate and T cell immunity in HIV-1 infected patients.</i>	Gilead, Fellowship Program. Role: component.	28.000,00
2022	<i>Immune response and microbiota signature following natural SARS-CoV-2 infection and vaccination in HIV-infected individuals.</i>	Research Projects Financing, Sapienza University of Rome. Role: component. Num. Prot. RM1221814ED155C3	10.000,00

Part VII – Congress Participation as presenting author

Part VIIA – Oral Communication

Year	Title	Congress
2022	<i>Prospective monitoring of HIV-1 infected patients after SARS-CoV-2 mRNA vaccination: characterization of IFN gene expression signature and humoral immune response.</i> Federica Frasca , Mirko Scordio, Leonardo Sorrentino, Matteo Fracella, Alessandra D'auria, Ginevra Bugani, Francesca Di Paolo, Letizia Santinelli, Luca Maddaloni, Carla Selvaggi, Eugenio Nelson Cavallari Anna Napoli, Lilia Cinti, Piergiorgio Roberto, Giancarlo Ceccarelli, Aurelia Gaeta, Guido Antonelli, Claudio Maria Mastroianni, Gabriella d'Ettore, Carolina Scagnolari.	50° Congresso SIM, Società Italiana Microbiologia (Napoli, NA).
2022	<i>Impairment of IFN-I after COVID-19 mRNA vaccine in HIV-1 patients: the downside of a robust humoral immunity?</i> Federica Frasca , Mirko Scordio, Leonardo Sorrentino, Matteo Fracella, Alessandra D'auria, Ginevra Bugani, Francesca Di Paolo, Letizia Santinelli, Luca Maddaloni, Carla Selvaggi, Eugenio Nelson Cavallari Anna Napoli, Lilia Cinti, Piergiorgio Roberto, Giancarlo Ceccarelli, Aurelia Gaeta, Guido Antonelli, Claudio Maria Mastroianni, Gabriella d'Ettore, Carolina Scagnolari.	XXI Congresso Nazionale SIMIT (Napoli, NA).
2022	<i>Longitudinal characterization of interferon and antibody response following vaccination against SARS-CoV-2 in patients with HIV-1 infection.</i> Federica Frasca , Mirko Scordio, Letizia Santinelli, Luca Maddaloni, Leonardo Sorrentino, Matteo Fracella, Alessandra D'auria, Carla Selvaggi, Eugenio Nelson Cavallari, Anna Napoli, Lilia Cinti, Piergiorgio Roberto, Giancarlo Ceccarelli, Aurelia Gaeta, Guido Antonelli, Claudio Maria Mastroianni, Gabriella d'Ettore, Carolina Scagnolari.	14° Italian Conference on AIDS and Antiviral Research (ICAR) (Bergamo, BG).

2022	<i>Biological and clinical significance of natural circulating and airway neutralizing antibodies to IFN-I in COVID-19 patients. Federica Frasca, Mirko Scordio, Leonardo Sorrentino, Matteo Fracella, Giuseppe Oliveto, Agnese Viscido, Camilla Bitossi, Alessandra D'Auria, Ginevra Bugani, Letizia Santinelli, Alessandra Pierangeli, Luigi Celani, Giancarlo Ceccarelli, Claudio Maria Mastroianni, Gabriella D' Ettore, Guido Antonelli, Carolina Scagnolari</i>	32 nd ECCMID, European Congress of Clinical Microbiology and Infectious Diseases.
2021	<i>Analysis of anti-Spike neutralizing antibodies and levels of circulating biomarkers in COVID-19 patients. Federica Frasca, Mirko Scordio, Giuseppe Oliveto, Agnese Viscido, Leonardo Sorrentino, Letizia Santinelli, Claudia Pinacchio, Giancarlo Ceccarelli, Elio Gentilini, Eugenio Nelson Cavallari, Aurelia Gaeta, Gabriella d'Ettore, Alessandra Pierangeli, Guido Antonelli, Carolina Scagnolari.</i>	5th National Congress of the Italian Society for Virology (SIV/ISV).
2021	<i>Impairment of type I/III IFN response in the upper airways of SARS-CoV-2 patients. Federica Frasca, Mirko Scordio, Agnese Viscido, Giuseppe Oliveto, Camilla Bitossi, Carolina Scagnolari.</i>	Virtual CROI, Science Spotlight presentation).
2020	<i>Higher frequency of CD4+PD1+ T cells and Interferon-Stimulate Genes are associated to a decrease in CD4+ Treg levels in HIV-1 infected patients. Federica Frasca, Mirko Scordio, Letizia Santinelli, Giancarlo Ceccarelli, Claudio Mastroianni, Guido Antonelli, Ivano Mezzaroma, Gabriella d'Ettore, Carolina Scagnolari.</i>	12° Italian Conference on AIDS and Antiviral Research (ICAR) – Digital Edition
201	<i>Lineage 1 and 2 West Nile Virus infection equally affect the IFN response and dendritic cells maturation. Federica Frasca, Maura Statzu, Alessandra Pierangeli, Letizia Santinelli, Mirko Scordio, Chiara Nonne, Agnese Sgrigna, Beniamino Caputo, Vitiello Laura, Massimo Gentile, Elisabetta Riva, Guido Antonelli, Carolina Scagnolari.</i>	3° SIV-ISV, Società Italiana Virologi (Padova, PD).

Part VIIB – Oral Poster Presentation

Year	Title	Congress
2022	<i>Alterations in IFN-omega expression and anti-IFNomega neutralizing antibodies in severe COVID-19 patients. Federica Frasca, Mirko Scordio, Leonardo Sorrentino, Matteo Fracella, Letizia Santinelli, Eugenio Nelson Cavallari, Camilla Bitossi, Agnese Viscido, Giancarlo Ceccarelli, Alessandra Pierangeli, Ombretta Turriziani, Claudio Maria Mastroianni, Guido Antonelli, Gabriella d'Ettore, Carolina Scagnolari.</i>	6° SIV-ISV, Società Italiana Virologi.

2022	<i>Dysregulation in IFNω levels and anti-IFN-ω neutralizing antibodies correlate with biochemical and hematological parameters predictive of disease severity in COVID-19 male patients. Federica Frasca, Mirko Scordio, Leonardo Sorrentino, Matteo Fracella, Letizia Santinelli, Eugenio Nelson Cavallari, Camilla Bitossi, Agnese Viscido, Giancarlo Ceccarelli, Alessandra Pierangeli, Ombretta Turriziani, Claudio Maria Mastroianni, Guido Antonelli, Gabriella d'Ettore, Carolina Scagnolari.</i>	14° Italian Conference on AIDS and Antiviral Research (ICAR).
2021	<i>Binding and neutralizing antibodies to interferon (IFN) α/β and defective IFN transcriptional profile in COVID-19 patients. Federica Frasca, Mirko Scordio, Giuseppe Oliveto, Leonardo Sorrentino, Agnese Viscido, Camilla Bitossi, Alessandra D'Auria, Ginevra Bugani, Alessandra Pierangeli, Luigi Celani, Giancarlo Ceccarelli, Claudia Pinacchio, Letizia Santinelli, Claudio Maria Mastroianni, Gabriella D' Ettore, Guido Antonelli, Carolina Scagnolari.</i>	13° Italian Conference on AIDS and Antiviral Research (ICAR)
2020	<i>Dysregulation of interferon stimulated gene response in the respiratory tract of patients with coronavirus disease 2019 (COVID-19). Federica Frasca, Mirko Scordio, Agnese Viscido, Giuseppe Oliveto, Camilla Bitossi, Laura Mazzuti, Daniele Di Carlo, Massimo Gentile, Angelo Solimini, Giancarlo Ceccarelli, Claudio Maria Mastroianni, Gabriella d'Ettore, Ombretta Turriziani, Alessandra Pierangeli, Carolina Scagnolari, Guido Antonelli.</i>	48° National conference SIM, Società Italiana di Microbiologia (VIRTUAL SIM).

Part VIIC – Poster Presentation

2020	<i>Toll like receptors, IFN-λ and IFN-stimulated genes expression in cystic fibrosis patients with rhinovirus infection. Federica Frasca, Camilla Bitossi, Agnese Viscido, Giuseppe Oliveto, Mirko Scordio, Maria Trancassini, Valeria Pietropaolo, Fabio Midulla, Giuseppe Cimino, Paolo Palange, Alessandra Pierangeli, Carolina Scagnolari, Guido Antonelli.</i>	30° ECCMID, European Congress of Clinical Microbiology and Infectious Diseases
2019	<i>The impairment of IFN response and dendritic cells maturation is similar during lineage 1 and 2 WNV infection. Federica Frasca, Maura Statzu, Alessandra Pierangeli, Mirko Scordio, Chiara Nonne, Agnese Sgrigna, Beniamino Caputo, Vitiello Laura, Massimo Gentile, Elisabetta Riva, Guido Antonelli, Carolina Scagnolari.</i>	47° National Conference SIM, Società Italiana di Microbiologia

Part VIII – Research Activities

Keywords

Brief Description

Interferon	Federica Frasca has experience in studying the crosstalk between viruses and the host defence signalling pathways to understand how the activation of molecular sensors of microbial pathogens, and the modulation of Interferon (IFN) response and innate immune cells could be related to clinical severity of acute, persistent, zoonotic, and arthropod-borne-viral infections. The principal viruses investigated were respiratory viruses [e.g., respiratory syncytial virus (RSV), rhinovirus (HRV) and coronavirus, including SARS-CoV-2 and surrogate models such as the feline coronavirus, (FCoVII) and the bovine coronavirus (BCoV)], human immunodeficiency virus (HIV-1), cytomegalovirus (CMV), and arboviruses such Dengue virus, West Nile Virus, USUTU virus and Chikungunya. Federica has expanded its expertise evaluating the antiviral and virucidal effectiveness of natural and synthetic antiviral molecules. The investigation on how virus-bacteria interactions affect innate immunity in immunocompromised and cystic fibrosis patients is a further scientific topic included in her research activity. Federica has developed competence on cell culture techniques, flow cytometry methods, virus propagation experiments, antiviral/virucidal assays and bioassays for the detection of anti-IFN and anti-MDA5 antibodies. She also has developed strong ability in molecular techniques as standard PCR assays for detection of viruses and Real time PCR for quantification of viral nucleic acids and gene expression measurements by Real Time PCR (qPCR).
Innate immune response	
virus – host interaction	
respiratory viruses	
arthropod-borne viruses	
antiviral and virucidal activity of compounds.	

Part IX– Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	29 / 26*	SCOPUS / ISI WEB OF SCIENCE	2018	2023
Books [scientific]	1	ELSEVIER	2022	2022

Total Impact factor	157.186** (Journal Citation Reports)
Total Citations	193 (Scopus)
	164 (Isi Web of Science)
Average Citations per Product	6.655 (Scopus)
	6.307 (Isi Web of Science)
Hirsch (H) index	8 (Scopus)
	8 (Isi Web of Science)
Normalized H index***	1.6

* Updated to 2022.

The following publication is missing in SCOPUS: Natural Flavonoid Derivatives Have Pan-Coronavirus Antiviral Activity. Mori M. et al., Microorganisms (2023)”.

The following publications are missing in ISI WEB OF SCIENCE:

- Natural Flavonoid Derivatives Have Pan-Coronavirus Antiviral Activity. Mori M. et al., Microorganisms (2023)”
- Analysis of serum microRNAs and rs2910164 GC single-nucleotide polymorphism of miRNA-146a in COVID-19 patients. Pinacchio et al., J Immunoassay Immunochem (2022)
- No detection of SARS-CoV-2 in cystic fibrosis patients at the Regional (Lazio) Reference Center for CF in Italy. Scagnolari et al., J Cyst Fibros (2020)

** Related to the year of publication

*** H index divided by the academic seniority (time span from graduation).

Part X – Publications

Part XA – International papers

* last IF available

1. Natural Flavonoid Derivatives Have Pan-Coronavirus Antiviral Activity. Mori M, Quaglio D, Calcaterra A, Ghirga F, Sorrentino L, Cammarone S, Fracella M, D'Auria A, Frasca F, Criscuolo E, Clementi N, Mancini N, Botta B, Antonelli G, Pierangeli A, Scagnolari C. *Microorganisms* 2023, 11, 314. doi.org/10.3390/microorganisms11020314. **IF (2021)*: 4.926. Citations: 0**
2. The nonfunctional ACE2 isoform, but not the SARS-CoV-2 receptor, is induced as an interferon-stimulated gene, in SARS-CoV-2 infected adults. Oliveto G, Scagnolari C, Frasca F, Sorrentino L, Matera L, Nenna R, Viscido A, Scordio M, Petrarca L, Maria Zicari A, Gentilini E, D'Ettore G, Ceccarelli G, Midulla F, Antonelli G, Pierangeli A. *Cytokine*. 2022 Oct;158:155997. doi: 10.1016/j.cyto.2022.155997. **IF (2021)*: 3.926. Citations: 0**
3. High prevalence of Merkel cell polyomavirus is associate with dysregulation in transcript levels of TLR9 and type I IFNs in a large cohort of CF patients from the Italian (Lazio) reference center for cystic fibrosis. Bitossi C, Viscido A, Prezioso C, Brazzini G, Trancassini M, Borrazzo C, Passerini S, Frasca F, Scordio M, Sorrentino L, Oliveto G, Fracella M, D'Auria A, Selvaggi C, Cimino G, Midulla F, Pierangeli A, Antonelli G, Moens U, Pietropaolo V, Scagnolari C. *Microb Pathog*. 2022. doi: 10.1016/j.micpath.2022.105644. **IF (2021)*: 3.848. Citations: 0**
4. Anti-IFN- α - ω neutralizing antibodies from COVID-19 patients correlate with downregulation of IFN response and laboratory biomarkers of disease severity. Frasca F, Scordio M, Santinelli L, Gabriele L, Gandini O, Criniti A, Pierangeli A, Angeloni A, Mastroianni CM, d'Ettore G, Viscidi RP, Antonelli G, Scagnolari C. *Eur J Immunol*. 2022 Apr 13;10.1002/eji.202249824. doi: 10.1002/eji. 202249824. **IF (2021)*: 6.688. Citations: 4**
5. Comparison by age of the local interferon (IFN) response to SARS-CoV-2 suggests a role for IFN- ϵ and - ω . Pierangeli A, Gentile M, Oliveto G, Frasca F, Sorrentino L, Matera L, Nenna R, Viscido A, Fracella M, Petrarca L, d' Ettore G, Ceccarelli G, Midulla F, Antonelli G, Scagnolari C. *Frontiers in Immunology*. 2022. doi: 10.3389/fimmu.2022.873232. **IF (2021)*: 8.787. Citations: 1**
6. High frequency of neutralizing antibodies to type I Interferon in HIV-1 patients hospitalized for COVID-19. Scordio M, Frasca F, Santinelli L, Sorrentino L, Pierangeli A, Turriziani O, Mastroianni C.M, Antonelli G, Viscidi R. P, d'Ettore G, Scagnolari C. *Clin Immunol*. 2022. doi: 10.1016/j.clim.2022.109068. **IF (2021)*: 10.190. Citations: 0**
7. Distribution of Interferon Lambda 4 Single Nucleotide Polymorphism rs11322783 Genotypes in Patients with COVID-19. Sorrentino L, Silvestri V, Oliveto G, Scordio M, Frasca F, Fracella M, Bitossi C, D'Auria A, Santinelli L, Gabriele L, Pierangeli A, Mastroianni CM, d'Ettore G, Antonelli G, Caruz A, Ottini L, Scagnolari C. *Microorganisms*. 2022 Feb 4;10(2):363. doi: 10.3390/microorganisms10020363. **IF (2021)*: 4.926. Citations: 0**

8. Potential Use of Tea Tree Oil as a Disinfectant Agent against Coronaviruses: A Combined Experimental and Simulation Study. Romeo A, Iacovelli F, Scagnolari C, Scordio M, Frasca F, Condò R, Ammendola S, Gaziano R, Anselmi M, Divizia M, Falconi M. *Molecules*. 2022 Jun 12;27(12):3786. doi.org/10.3390/molecules27123786. **IF (2021)*: 4.927. Citations: 2**
9. Analysis of serum microRNAs and rs2910164 GC single-nucleotide polymorphism of miRNA-146a in COVID-19 patients. Pinacchio C, Scordio M, Santinelli L, Frasca F, Sorrentino L, Bitossi C, Oliveto G, Viscido A, Ceci FM, Celani L, Ceccarelli G, Antonelli G, Mastroianni CM, d'Ettorre G, Scagnolari C. *J Immunoassay Immunochem*. 2022 Jul 4;43(4):347-364. doi: 10.1080/15321819.2022.2035394. **IF (2012)*: 0.727. Citations: 3**
10. KI and W Polyomavirus in Respiratory Samples of SARS-CoV-2 Infected Patients. Prezioso C, Moens U, Oliveto G, Brazzini G, Piacentini F, Frasca F, Viscido A, Scordio M, Guerrizio G, Rodio DM, Pierangeli A, d'Ettorre G, Turriziani O, Antonelli G, Scagnolari C, Pietropaolo V. *Microorganisms*. 2021 Jun 9;9(6):1259. doi: 10.3390/microorganisms9061259. **IF (2021): 4.926. Citations: 2**
11. SARS-CoV-2 Entry Genes Expression in Relation with Interferon Response in Cystic Fibrosis Patients. Bitossi C, Frasca F, Viscido A, Oliveto G, Scordio M, Belloni L, Cimino G, Pietropaolo V, Gentile M, d'Ettorre G, Midulla F, Trancassini M, Antonelli G, Pierangeli A, Scagnolari C. *Microorganisms*. 2021 Jan 3;9(1):E93. doi: 10.3390/microorganisms9010093. **IF (2021): 4.926. Citations: 2**
12. Potential IFN γ Modulation of Inflammasome Pathway in Chlamydia trachomatis Infected Synovial Cells. *Life (Basel)*. Filardo S, Di Pietro M, Frasca F, Diaco F, Scordio M, Antonelli G, Scagnolari C, Sessa R. 2021 Dec 7;11(12):1359. doi: 10.3390/life11121359. **IF (2021): 3.252. Citations: 3**
13. Alteration of type I interferon response is associated with subclinical atherosclerosis in virologically suppressed HIV-1-infected male patients. Santinelli L, De Girolamo G, Borrazzo C, Vassalini P, Pinacchio C, Cavallari EN, Statzu M, Frasca F, Scordio M, Bitossi C, Viscido A, Ceccarelli G, Mancone M, Mastroianni CM, Antonelli G, d'Ettorre G, Scagnolari C. *J Med Virol*. 2021 Apr 29. doi: 10.1002/jmv.27028. **IF (2021): 20.693. Citations: 3**
14. ACE2 expression is related to the interferon response in airway epithelial cells but is that functional for SARS-CoV-2 entry? Scagnolari C, Bitossi C, Viscido A, Frasca F, Oliveto G, Scordio M, Petrarca L, Mancino E, Nenna R, Riva E, De Vito C, Midulla F, Antonelli G, Pierangeli A. *Cytokine*. 2021 Apr. 140:155430. doi: 10.1016/j.cyto.2021.155430. **IF (2021): 3.926. Citations: 9**
15. Differential induction of type I and III interferon genes in the upper respiratory tract of patients with coronavirus disease 2019 (COVID-19). Scagnolari C, Pierangeli A, Frasca F, Bitossi C, Viscido A, Oliveto G, Scordio M, Mazzuti L, Di Carlo D, Gentile M, Solimini A, Ceccarelli G, Pugliese F, Mastroianni CM, d'Ettorre G, Turriziani O, Antonelli G. *Virology and Infectious Diseases COVID-19 Study Group of Sapienza University. Virus Res*. 2021 Jan 5:198283. doi: 10.1016/j.virusres.2020.198283. **IF (2021): 6.286. Citations: 14**
16. High abundance of genus *Prevotella* is associated with dysregulation of IFN-I and T cell response in HIV-1-infected patients. Pinacchio C, Scagnolari C, Iebba V, Santinelli L, Innocenti GP, Frasca F, Bitossi C, Scordio M, Oliveto G, Ceccarelli G, Antonelli G, Mastroianni CM, d'Ettorre G. *AIDS*. 2020 Aug 1;34(10):1467-1473. doi: 10.1097/QAD.0000000000002574. **IF (2020): 4.177. Citations: 11**
17. Analysis of type I IFN response and T cell activation in severe COVID-19/HIV-1 coinfection: A case report. d'Ettorre G, Recchia G, Ridolfi M, Siccardi G, Pinacchio C, Innocenti GP, Santinelli L, Frasca F, Bitossi C, Ceccarelli G, Borrazzo C, Antonelli G, Scagnolari C, Mastroianni CM. *Medicine (Baltimore)*. 2020 Sep 4;99(36):e21803. doi: 10.1097/MD.00000000000021803. **IF (2020): 1.889. Citations: 12**

18. Decreased Type I Interferon Production by Plasmacytoid Dendritic Cells Contributes to Severe Dengue. Upasani V, Scagnolari C, Frasca F, Smith N, Bondet V, Vanderlinden A, Lay S, Auerswald H, Heng S, Laurent D, Ly S, Duong V, Antonelli G, Dussart P, Duffy D, Cantaert T. *Front Immunol.* 2020 Dec 17;11:605087. doi: 10.3389/fimmu.2020.605087. **IF (2020): 7.561. Citations: 8**
19. No detection of SARS-CoV-2 in cystic fibrosis patients at the Regional (Lazio) Reference Center for CF in Italy. Scagnolari C, Bitossi C, Frasca F, Viscido A, Oliveto G, Scordio M, De Vito C, Trancassini M, Midulla F, Cimino G, Pierangeli A, Antonelli G. *J Cyst Fibros.* 2020 Sep;19(5):837-838. doi: 10.1016/j.jcf.2020.06.018. **IF (2020): 5.482. Citations: 6**
20. Naringenin is a powerful inhibitor of SARS-CoV-2 infection in vitro. Clementi N, Scagnolari C, D'Amore A, Palombi F, Criscuolo E, Frasca F, Pierangeli A, Mancini N, Antonelli G, Clementi M, Carpaneto A, Filippini A. *Pharmacol Res.* 2020 Oct 20:105255. doi: 10.1016/j.phrs.2020.105255. **IF (2020): 7.658. Citations: 57**
21. Modulation of Phenylalanine and Tyrosine Metabolism in HIV-1 Infected Patients with Neurocognitive Impairment: Results from a Clinical Trial. Innocenti GP, Santinelli L, Laghi L, Borrazzo C, Pinacchio C, Fratino M, Celani L, Cavallari EN, Scagnolari C, Frasca F, Antonelli G, Mastroianni CM, d'Ettorre G, Ceccarelli G. *Metabolites.* 2020 Jul 3;10(7):274. doi: 10.3390/metabo10070274. **IF (2020): 4.932. Citations: 3**
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