

**BIOGRAPHICAL SKETCH**

NAME: Marta Giovanetti

eRA COMMONS USER NAME (credential, e.g., agencylogin): Giovanetti M

POSITION TITLE: Visiting Researcher at the Oswaldo Cruz Foundation (FIOCRUZ).

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date YYYY	FIELD OF STUDY
University of Rome "Tor Vergata", Italy	BS	2011	Human Biology
University of Rome "Tor Vergata", Italy	MS	2013	Cellular and Molecular Biology
Oswaldo Cruz Foundation Salvador, Brazil	Visiting Fellow	2015	Phylogenetic, Phylodynamics and Bioinformatics
University of Rome "Tor Vergata", Faculty of Medicine, Italy	Ph.D.	2017	Immunology and Applied Biotechnology
Department of Zoology, University of Oxford, United Kingdom	Visiting Research Fellow	2017	Phylogenetic, Phylodynamics and Phylogeographic Inference
Gonçalo Moniz Research Center, Oswaldo Cruz Foundation, Salvador, Brazil	Post Doc	2017-2018	Genomic Surveillance; Next-Generation-Sequencing. Metagenomics.
Oswaldo Cruz Foundation Rio de Janeiro, Brazil	Visiting Researcher	2018-ongoing	Genomic Surveillance; Next-Generation-Sequencing. Metagenomics.
Katholieke Universiteit Leuven, Belgium	Visiting Research Fellow	2019	Discovery by Metagenomics
Bioinformatics Centre of the KwaZulu-Natal Research Innovation and Sequencing Platform (KRISP), at University of KwaZulu-Natal, South Africa	Visiting Research Fellow	2019	Discovery by Metagenomics, Bioinformatics
Faculty of Medicine, Campus Biomedico University, Rome, Italy	Visiting Professor	2020	Molecular Biology, Virology and Bioinformatics



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## A. Personal Statement

My research focuses on investigating the patterns of gene flow in pathogen populations, focusing in phylogenetics and phylogeography as tools to recreate and understand the determinants of viral outbreaks and how this information can be translated into public policy recommendations. More specifically, my research focuses on recent arboviral outbreaks in Latin America (Zika, Chikungunya, Dengue and Yellow fever viruses and more recently SARS-CoV-2 in Brazil, Italy and South Africa), combining genetic, spatial and ecological information. I am interested in the epidemiology and ecology of viruses in natural populations. My research involves developing and applying techniques to integrate virus genetic data with traditional clinical and demographic data.

After completing my PhD in molecular evolution of RNA viruses in the University of Rome Tor Vergata in Italy and performing field work in Sierra Leone with Ebola virus, I've started a postdoctoral position in the Laboratory of Prof. Luiz Carlos Junior Alcantara at the Fundação Oswaldo Cruz (FIOCRUZ), Salvador, Brazil, investigating the evolution of arthropod-borne viruses. I am currently a Visiting Researcher fellow at the Regional Reference Laboratory of Flavivirus in the Oswaldo Cruz Institute in the Fundação Oswaldo Cruz in Rio de Janeiro, Brazil working with the ZIBRA-2 project (Zika in Brazil real-time analysis, [www.zibra2project.org](http://www.zibra2project.org)), a project that aims to improve genomic surveillance of emergent and re-emergent RNA viruses circulating in Brazil. We built upon recent methodological advances in virus nanopore sequencing (e.g. Faria et al., 2017, Nature; Quick et al., 2016, Nature; Faria et al., Science 2018; Giovanetti et al., Cell Report 2020), that gave us the possibility to generate more than 5000 complete genomes from viruses from different geographic regions in Brazil. My research focuses on generating these genomes in real-time using nanopore sequencing technology and to analyse large datasets of genetic data to gain insights into the origins and mode of spread of key viral pathogens with significant public health impact.

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## **B. Positions and Honors**

**2015 – 2016** Gonçalo Moniz Research Center, Oswaldo Cruz Foundation, Salvador, Bahia, Brazil. Visiting Fellow.

**2017** Department of Zoology, University of Oxford, United Kingdom. Visiting Research Fellow.

**2017-2018** Gonçalo Moniz Research Center, Oswaldo Cruz Foundation, Salvador, Brazil. Post-doctoral fellow.

**2018 – Present** Federal University of Minas Gerais State (UFMG), Instituto de Ciências Biológicas. Visiting Professor (Bioinformatics).

**2018 – Present** Oswaldo Cruz Foundation Rio de Janeiro, Brazil, Visiting Researcher fellow.

**2019** Katholieke Universiteit Leuven, Belgium. Visiting Research Fellow.

**2019** Bioinformatics Centre of the KwaZulu-Natal Research Innovation and Sequencing Platform (KRISP), at University of KwaZulu-Natal, South Africa. Visiting Research Fellow.

**2020** Campus Biomedico University, Rome Italy. Visiting Professor.

**2021.** Associate Professor in Microbiology, habilitation to Prof (Level II) (National Scientific Qualification), September 2021.

**Reviewer for multiple journals:** Plos One, PeerJ, American journal of infectious diseases (Am J Infect Dis), Journal of Medical Virology, Infection Genetics and Evolution, Microbial Pathogenesis, Nature Microbiology, Emerging Infectious Diseases, Lancet Infectious Diseases.

**Editor in peer-review journals:** Plos One, Frontiers in Genetics

**Language:** English –Portuguese – Italian (mother tongue).

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## **C. Contribution to Science**

### **SARS-CoV-2:**

Dr. Giovanetti was fully involved in the SARS-CoV-2 genomic monitoring in Brazil, Italy and South Africa. Currently she was recognized as the Researcher with the majority number and most cited papers on COVID-19 in Brazil (over 30 publications and 1000 citations) (more available here: <https://jornal.usp.br/ciencias/usp-esta-entre-as-20-instituicoes-que-mais-publicam-sobre-covid-no-mundo/>), and she was also awarded the “*Researcher Productivity Fellowship*” considering her numbers of publications and her dedication in Science by the Conselho Nacional de Desenvolvimento Científico e Tecnológico CNPq.

### **Arbovirus**

In the arbovirus research group of the Oswaldo Cruz Foundation (FIOCRUZ), coordinated by Dr. Luiz Alcantara, Dr Giovanetti has carried out genomic and epidemiological surveillance activities during the Zika virus (ZIKV) (<http://www.zibraproject.org/>)(<http://www.who.int/emergencies/zika-virus/articles/then-now-vazquez/en/>), Chikungunya (CHIKV) and Yellow Fever (YFV) epidemics registered in Brazil between the years 2015 to 2021. Doing genomic surveillance of arboviruses since

2016, through the ZIBRA project (Zika in Brazil Real time Analysis) in partnership with PAHO / WHO and the Ministry of Health, she was involved in the development of protocols for the generation of complete genomes (using nanopore technology) of different arboviruses such as Zika (ZIKV), Chikungunya (CHIKV), West Nile Fever (WNV), Yellow Fever (YFV), Punta Toro (PTV), Saint Louis (SLV), Oropouche (OROV), Dengue 1-4 (DENV), Mayaro (MAYV), Ilheus (ILHV) and, Japanese Encephalitis (JEV). Those protocols have been tested using positive samples from infected individuals, stored in the different Brazilian Government Public Health Laboratory (LACENs), in the FIOCRUZ/Recife, in the arbovirus reference laboratory from the Oswald Cruz Institute/FIOCRUZ-RJ, in the Gorgas Institute of Panama, in the Laboratory Central Public Health of Paraguay and in the National Institute of Public Health of Angola. To date, they have generated more than 5,000 complete viral genomes available in public databases.

During the second stage of the ZIBRA project in the Midwest Brazil (zibra2project.org), they were also involved in a mobile sequencing mission, for the genomic monitoring (using nanopore sequencing) of the arboviruses circulating and co-circulating in that region, such as Zika, dengue e chikungunya, and they generated more than 200 complete viral genomes in real time. Also, during this project, a developing protocol for metagenomics was tested and presented successful outcomes. These researches have resulted in publications in renowned journals as follows: Zika virus in the Americas: Early epidemiological and genetic findings, *Science*, 2016; Establishment and cryptic transmission of Zika virus in Brazil and the Americas in *Nature* 2017; Multiplex PCR method for MinION and Illumina sequencing of Zika and other virus genomes directly from clinical samples, *Nature Protocol*, 2017. Genomic and epidemiological monitoring of yellow fever virus transmission potential in *Science* 2018; Genetic evidence of Zika virus in mother's breast milk and body fluids of a newborn with severe congenital defects, *Clinical Microbiology And Infection*, 2018; Genomic, epidemiological and digital surveillance of Chikungunya virus in the Brazilian Amazon in *PLoS Negl Trop Dis* 2019; Circulation of chikungunya virus East/Central/South African lineage in Rio de Janeiro, Brazil, *PLoS One* 2019; Lipidomic Analysis Reveals Serum Alteration of Plasmalogens in Patients Infected With ZIKA Virus, *Frontiers in Microbiology*, 2019; Yellow fever virus re-emergence and spread in Southeast Brazil, 2016-2019, *Journal of Virology*, 2019; Return of the founder Chikungunya virus to its place of introduction into Brazil is revealed by genomic characterization of exanthematic disease cases, *Emerging Microbes & Infections*, 2019; A computational method for the identification of Dengue, Zika and Chikungunya virus species and genotypes, *PLoS One*, 2019 and Genomic and Epidemiological Surveillance of Zika Virus in the Amazon Region, *Cell Reports*, 2020.

During those activities she established also international collaborations with researchers from the University of Oxford and the University of Birmingham, both in the UK, and with Dr. Tulio de Oliveira from the KwaZulu-Natal Research and Innovation Sequencing Platform, in South Africa. Moreover, National collaborations have been established with researchers from the University of São Paulo, such as Dr. Ester Sabino from the Institute of Tropical Medicine of the University of Sao Paulo, and a partnership with Fundação Ezequiel Dias, Minas Gerais. Dr. Giovanetti works alongside the Dr. Alcantara and the Dr. Ana Maria Bispo de Filippis in the regional reference diagnostic service of the Flavivirus Laboratory of the Oswaldo Cruz Institute, Rio de Janeiro.

Recently (October 2021) due to her commitment in the arbovirus surveillance research she was awarded by [the L'Oréal-UNESCO For Women in Science prize](#).

### **HTLV and HIV**

Brazil has locally high concentrations of both African and Japanese descendants, both populations with high levels of HTLV and HIV infection. Dr Giovanetti have used sequencing and other molecular modalities to understand the history of those infections and the dynamics of their epidemiology.

### **Ebola**

Dr Giovanetti was also involved in fieldwork in Sierra Leone during the Ebola Outbreak in West Africa in 2015-2016.

### Research Support

**2015–2017.** Research Project as Principal Investigator: Identification and Influence of Different Subtypes and/or Recombinant HIV Forms and Viro-immunological Determinants in Viral Persistence and Determination of Clinical Severity.  
Founded by Gilead Italy (10,000 Euro).

**2018-Present.** Research Project as Principal Investigator: Genomic monitoring of Zika, Chikungunya, Dengue and Yellow Fever viruses and early detection of potential emerging viruses in Brazil.  
Founded by CNPq, Conselho Nacional de Desenvolvimento Científico e Tecnológico, Brazil. (30,000 Reais)

**2020- Present.** Research Project as Principal Investigator: One Health International Network for SARS-CoV-2 real time genomic monitoring.  
Founded by CRP - ICGEB Research Grants Programme 2020 (Special call on COVID-19). (15,000 Euro).

**2021- Present.** L'Oréal-UNESCO For Women in Science 2021 Programme. (50,000 Reais).

### Interested topics

- Molecular epidemiology and evolution of human viruses
- Clinical-epidemiological correlations in human viruses
- Development of new bioinformatics tools for the study of human / host virus genes
- Next generation sequencing
- Metagenomics
- Phylodynamics
- Molecular Epidemiology
- Genomic monitoring of emerging and re-emerging viral pathogens

She has authored 133 articles published in international peer-review journals, 2 book chapters and she also have involved in the development of 3 open-source software for virus genotyping.

**Regarding human resources,** she has already co-advised 5 Ph.D. students, advised 2 Ph.D. students, 3 MSc students and 1 graduate student.

A full list of all peer-reviewed publications can be found below and at: Plataforma Lattes –URL:  
<http://lattes.cnpq.br/9419783526731494>

1. Lourenço, José; Barros, Sílvia C.; Zé-Zé, Líbia ; Daminieli, Daniel S.C.; **Giovanetti, Marta**; Osório, Hugo C.; Amaro, Fátima; Henriques, Ana M.; Ramos, Fernanda; Luís, Tiago; Duarte, Margarida D.; Fagulha, Teresa; Alves, Maria J.; Obolski, Uri. West Nile virus transmission potential in Portugal. *Communications Biology*, v. 5, p. 6, 2022.
2. Slavov, Svetoslav Nanev Bezerra, Rafael Dos Santos Rodrigues, Evandra Strazza Santos, Elaine Vieira Borges, Joseane Serrano De La Roque, Débora Glenda Lima Patané, José Salvatore Leister Lima, Alex Ranieri Jerônimo Ribeiro, Gabriela Viala, Vincent Louis De Lima, Loyze Paola Oliveira Martins, Antonio Jorge Dos Santos Barros, Claudia Renata Marqueze, Elaine Cristina Bernardino, Jardelina De Souza Todão Moretti, Debora Botequio Brassaloti,

Ricardo Augusto Cassano, Raquel De Lello Rocha Campos Mariani, Pilar Drummond Sampaio Corrêa Kitajima, João Paulo Santos, Bibiana Assato, Patricia Akemi Da Silva Da Costa, Felipe Allan Poleti, Mirele Daiana Lesbon, Jessika Cristina Chagas, **Giovanetti, Marta**; et al.; Genomic monitoring of the SARS-CoV-2 B.1.1.7 (WHO VOC Alpha) in the Sao Paulo state, Brazil. *Virus Research*, v. 308, p. 198643, 2022.

3. Simionatto, Victoria Zucherato; Evaristo, Mariane; Santos, Elaine Vieira; Mello, Ralyria; Donizetti Candido, Érika ; Araujo, Danielle Bastos; De Oliveira, Danielle Bruna Leal; Durigon, Edson Luiz; **Giovanetti, Marta**; Alcantâra, Luiz Carlos Júnior; Cilião-Alves, Daiani Cristina; Haddad, Rodrigo; Covas, Dimas Tadeu; Kashima, Simone; Slavov, Svetoslav Nanev. SARS-CoV-2 serological cross-reactivity testing in Brazilian blood donors, October-December, 2019. *Journal of infection*, v. 1, p. 11, 2022.
4. Viana, Raquel Moyo, Sikhulile Amoako, Daniel G. Tegally, Houriiyah Scheepers, Cathrine Althaus, Christian L. Anyaneji, Ugochukwu J. Bester, Phillip A. Boni, Maciej F. Chand, Mohammed Choga, Wonderful T. Colquhoun, Rachel Davids, Michaela Deforche, Koen Doolabh, Deelan Du Plessis, Louis Engelbrecht, Susan Everatt, Josie Giandhari, Jennifer **Giovanetti, Marta** Hardie, Diana Hill, Verity Hsiao, Nei-Yuan Iranzadeh, Arash Ismail, Arshad, et al. Rapid epidemic expansion of the SARS-CoV-2 Omicron variant in southern Africa. *Nature*, v. 1, p. 11, 2022.
5. Carnevale, Sergio; **Giovanetti, Marta**; Benvenuto, Domenico; Ciccozzi, Massimo; Broccolo, Francesco. Is Molecular Mimicry between hPF4 and SARS-CoV-2 Spike Protein a Potential Basis for Autoimmune Responses in Vaccinated and Naturally Infected Patients? *Seminars in Thrombosis and Hemostasis*, v. 1, p. 111, 2022.
6. Maruotti, Antonello; **Giovanetti, Marta** ; Divino, Fabio; Broccolo, Francesco; Angeletti, Silvia; Ciccozzi, Massimo. Prisoners of variants, or free to act as prisoners of swabs? The case of Italy. *Journal of Medical Virology*, v. 1, p. 11, 2022.
7. Pinotti, Francesco; Wikramaratna, Paul S.; Obolski, Uri; Paton, Robert S.; Damineli, Daniel S. C.; Alcantara, Luiz C.J.; **Giovanetti, Marta** ; Gupta, Sunetra; Lourenço, José. Potential impact of individual exposure histories to endemic human coronaviruses on age-dependent severity of COVID-19. *BMC Medicine*, v. 19, p. 19, 2021.
8. Fiorentini, Simona; Messali, Serena; Zani, Alberto; Caccuri, Francesca; **Giovanetti, Marta**; Ciccozzi, Massimo; Caruso, Arnaldo. First Detection Of Sars-Cov-2 spike protein N501 mutation in Italy in August, 2020. *Lancet Infectious Diseases*, v. 1, p. 11, 2021.
9. Xavier, Joilson ; Fonseca, Vagner; Bezerra, Joao Felipe; Do Monte Alves, Manoella; Mares-Guia, Maria Angélica; Claro, Ingra Morales; De Jesus, Ronaldo; Adelino, Talita; Araújo, Emerson; Cavalcante, Karina Ribeiro Leite Jardim; Tosta, Stephane; De Souza, Themis Rocha; Moreira Da Cruz, Flavia Emanuelle; De Araújo Fabri, Allison; De Oliveira, Elaine Cristina; De Moura, Noely Fabiana Oliveira; Do Carmo Said, Rodrigo Fabiano; De Albuquerque, Carlos Frederico Campelo; Azevedo, Vasco; De Oliveira, Tulio; De Filippis, Ana Maria Bispo; Venâncio Da Cunha, Rivaldo; Luz, Kleber Giovanni; **Giovanetti, Marta**; Alcantara, Luiz Carlos Junior. Chikungunya virus ECSA lineage reintroduction in the northeasternmost region of Brazil. *International Journal Of Infectious Diseases*, v. 345, p. 11345, 2021.
10. Tegally, Houriiyah Wilkinson, Eduan Lessells, Richard J. Giandhari, Jennifer Pillay, Sureshnee Msomi, Nokukhanya Mlisana, Koleka Bhiman, Jinal N. Von Gottberg, Anne Walaza, Sibongile Fonseca, Vagner Allam, Mushal Ismail, Arshad Glass, Allison J. Engelbrecht, Susan Van Zyl,

Gert Preiser, Wolfgang Williamson, Carolyn Petruccione, Francesco Sigal, Alex Gazy, Inbal Hardie, Diana Hsiao, Nei-Yuan Martin, Darren York, Denis , **Giovanetti, Marta**; et al. ; Sixteen novel lineages of SARS-CoV-2 in South Africa. *Nature Medicine*, v. 1, p. 11, 2021.

11. Nonaka, C.K.V. ; Franco, M.M. ; Graf, T.; Barcia, C.A.L. ; Mendonca, R.N.A.; Sousa, K.A.F.; Neiva, L.M.C.; Fosenca, V.; Mendes, A.V.A. ; Aguiar, R.S.; **Giovanetti, Marta** ; Souza, B.S.F. Genomic Evidence of SARS-CoV-2 Reinfection Involving E484K Spike Mutation, Brazil. *Emerging Infectious Diseases*. v. 11, p. 1111, 2021.
12. Tegally, Houriiyah Wilkinson, Eduan **Giovanetti, Marta** Iranzadeh, Arash Fonseca, Vagner Giandhari, Jennifer Doolabh, Deelan Pillay, Sureshnee San, Emmanuel James Msomi, Nokukhanya Mlisana, Koleka Von Gottberg, Anne Walaza, Sibongile Allam, Mushal Ismail, Arshad Mohale, Thabo Glass, Allison J. Engelbrecht, Susan Van Zyl, Gert Preiser, Wolfgang Petruccione, Francesco Sigal, Alex Hardie, Diana Marais, Gert Hsiao, Marvin, et al.; Emergence of a SARS-CoV-2 variant of concern with mutations in spike glycoprotein. *Nature*, v. 1, p. 111, 2021.
13. Iani, Felipe C.M. ; **Giovanetti, Marta** ; Fonseca, Vagner ; Souza, William M. ; Adelino, Talita E.R. ; Xavier, Joilson ; Jesus, Jaqueline G. ; Pereira, Maira A. ; Silva, Marcos V.F. ; Costa, Alana V.B. ; Silva, Erniria C. ; Mendes, Márcia C.O. ; Filippis, Ana M.B. ; Albuquerque, Carlos F.C. ; Abreu, André L. ; Oliveira, Marluce A.A. ; Alcantara, Luiz C.J. ; Faria, Nuno R. . Epidemiology and evolution of Zika virus in Minas Gerais, Southeast Brazil. *Infection Genetics And Evolution*, v. 1, p. 104785, 2021.
14. Graf, T. ; Vazquez, C. ; **Giovanetti, Marta** ; Bruycker-Nogueira, F. ; Fonseca, V. ; Claro, I. M. ; Jesus, J. G. ; Gomez, A. ; Xavier, J. ; Mendonca, M. C. L. ; Villalba, S. ; Torales, J. ; Gamarra, M. L. ; Theze, J. ; Filippis, A. M. B. ; Azevedo, V. ; Oliveira, T. ; Franco, L. ; Albuquerque, C. F. C. ; Irala, S. ; Holmes, E. C. ; Rico, J. A. M. ; Alcantar, L. C. J. . Epidemiologic History and Genetic Diversity Origins of Chikungunya and Dengue Viruses, Paraguay. *Emerging Infectious Diseases* (ONLINE), v. 1, p. 11, 2021.
15. Parolin, Cristina ; Virtuoso, Sara ; **Giovanetti, Marta** ; Angeletti, Silvia ; Ciccozzi, Massimo ; Borsetti, Alessandra . Animal Hosts and Experimental Models of SARS-CoV-2 Infection. *Chemotherapy*, v. 1, p. 1-9, 2021.
16. Pinotti, Francesco; Obolski, Uri ; Wikramaratna, Paul; **Giovanetti, Marta**; Paton, Robert; Klenerman, Paul; Thompson, Craig; Gupta, Sunetra; Lourenço, José. Real-time seroprevalence and exposure levels of emerging pathogens in infection-naive host populations. *Scientific Reports*, v. 11, p. 5825, 2021.
17. Fabris, S.; **Giovanetti, Marta**.; Angeletti, Silvia; A,R.; Ciccozzi, Massimo; Giancarlo Ceccarelli; Gabriella, D. Targeting Microbiome: An Alternative Strategy for Fighting SARS-CoV-2 Infection. *Chemotherapy*, v. 1, p. 11, 2021.
18. Cella, Eleonora; Benedetti, Francesca; Fabris, Silvia; Borsetti, Alessandra; Pezzuto, Aldo; Ciotti, Marco; Pascarella, Stefano; Ceccarelli, Giancarlo; Zella, Davide; Ciccozzi, Massimo; **Giovanetti, Marta**. SARS-CoV-2 Lineages and Sub-Lineages Circulating Worldwide: A Dynamic Overview. *Chemotherapy*, v. 1, p. 1-5, 2021.
19. Nunes, E.C.; Filippis, A.M.B.; Pereira, T.E.S.; Faria, N.R.C.; Salgado, A.; Santos, C.S.; Carvalho, T.C.P.X. ; Calcagno, J.I.; Chalhoub, F.L.L.; Brown, D.; **Giovanetti, Marta**; Alcantara, L.C.; Barreto, F.K.; Siqueira, I.C.; Canuto, G.A.B. Untargeted Metabolomics Insights into Newborns with Congenital Zika Infection. *Pathogens*, v. 1, p. 11, 2021.

20. Zella, Davide; **Giovanetti, Marta**; Cella, Eleonora; Borsetti, Alessandra; Ciotti, Marco; Ceccarelli, Giancarlo; D’Ettorre, Gabriella; Pezzuto, Aldo; Tambone, Vittoradolfo; Campanozzi, Laura; Magheri, Marco; Unali, Francesco; Bianchi, Martina ; Benedetti, Francesca; Pascarella, Stefano; Angeletti, Silvia; Ciccozzi, Massimo. The importance of genomic analysis in cracking the Coronavirus pandemic. *Expert Review of Molecular Diagnostics*, v. 1, p. 14737159.2021.1917998, 2021.
21. Adelino, Talita Émile Ribeiro **Giovanetti, Marta** Fonseca, Vagner Xavier, Joilson De Abreu, Álvaro Salgado Do Nascimento, Valdinete Alves Demarchi, Luiz Henrique Ferraz Oliveira, Marluce Aparecida Assunção Da Silva, Vinícius Lemes De Mello, Arabela Leal E. Silva Cunha, Gabriel Muricy Santos, Roselene Hans De Oliveira, Elaine Cristina Júnior, Jorge Antônio Chamon De Melo Iani, Felipe Campos De Filippis, Ana Maria Bispo De Abreu, André Luiz De Jesus, Ronaldo De Albuquerque, Carlos Frederico Campelo Rico, Jairo Mendez Do Carmo Said, Rodrigo Fabiano Silva, Joscélio Aguiar De Moura, Noely Fabiana Oliveira Leite, Priscila Frutuoso, Livia Carla Vinhal , Et Al. ; Field and classroom initiatives for portable sequence-based monitoring of dengue virus in Brazil. *Nature Communications*, v. 12, p. 2296, 2021.
22. De Oliveira, Elaine Cristina ; Fonseca, Vagner; Xavier, Joilson; Adelino, Talita ; Morales Claro, Ingra; Fabri, Allison ; Marques Macario, Eduardo; Viniski, Ana Elisa; Campos Souza, Claudio Luis; Gomes Da Costa, Evanil Sebastiana; Soares De Sousa, Claudia; Guimarães Dias Duarte, Flávia; Correia De Medeiros, Arnaldo; Campelo De Albuquerque, Carlos F; Venancio Cunha, Rivaldo; Oliveira De Moura, Noely Fabiana; Bispo De Filippis, Ana Maria; Oliveira, Tulio De; Lourenço, José; De Abreu, André Luiz; Alcantara, Luiz Carlos Junior; **Giovanetti, Marta**. Short report: Introduction of chikungunya virus ECSA genotype into the Brazilian Midwest and its dispersion through the Americas. *PLoS Neglected Tropical Diseases*, v. 15, p. e0009290, 2021.
23. **Giovanetti, Marta**; Cella, Eleonora Benedetti, Francesca Rife Magalis, Brittany Fonseca, Vagner Fabris, Silvia Campisi, Giovanni Ciccozzi, Alessandra Angeletti, Silvia Borsetti, Alessandra Tambone, Vittoradolfo Sagnelli, Caterina Pascarella, Stefano Riva, Alberto Ceccarelli, Giancarlo Marcello, Alessandro Azarian, Taj Wilkinson, Eduan De Oliveira, Tulio Alcantara, Luiz Carlos Junior Cauda, Roberto Caruso, Arnaldo Dean, Natalie E. Browne, Cameron Lourenco, Jose, et al. SARS-CoV-2 shifting transmission dynamics and hidden reservoirs potentially limit efficacy of public health interventions in Italy. *Communications Biology*, v. 4, p. 489, 2021.
24. Lopes, Elisson Nogueira; Fonseca, Vagner; Frias, Diego; Tosta, Stephane; Salgado, Álvaro; Assunção Vialle, Ricardo; Paulo Eduardo, Toscano Soares; Barreto, Fernanda Khouri; Ariston De Azevedo, Vasco; Guarino, Michele; Angeletti, Silvia; Ciccozzi, Massimo; Junior Alcantara, Luiz Carlos; **Giovanetti, Marta**. Betacoronaviruses genome analysis reveals evolution toward specific codons usage: implications for SARS-CoV-2 mitigation strategies. *Journal of Medical Virology*, v. 11, p. jmv.27056, 2021.
25. Mafopa, Nadège Goumkwa; Wadoum, Raoul Emeric Guetiya; **Giovanetti, Marta**; Minutolo, Antonella; Dambaya, Béatrice; Yinda, Claude Kwe; Russo, Gianluca; Teto, Georges; Ambada, Georgia; Turay, Patrick; Torimiro, Judith; Ndjolo, Alexis; Kuate, Jules Roger; Colizzi, Vittorio; Montesano, Carla. Immunoglobulin G Specific Antibody Level against Ebola Viral Glycoprotein and Nucleoprotein in Ebola Virus Disease Survivors and Their Relatives. *Journal of Biosciences and Medicines*, v. 09, p. 179-196, 2021.
26. Pereira, Felicidade; Tosta, Stephane; Lima, Maricélia Maia; Reboredo De Oliveira Da Silva, Luciana; Nardy, Vanessa Brandão; Gómez, Marcela Kelly Astete; Lima, Jaqueline Gomes;



- Fonseca, Vagner; Oliveira, Tulio; Lourenço, Jose; Alcantara, Luiz Carlos Junior; **Giovanetti, Marta**; Leal, Arabela. Genomic surveillance activities unveil the introduction of the SARS-CoV-2 B.1.525 variant of interest in Brazil: Case Report. *Journal of Medical Virology*, v. 1, p. jmv.27086, 2021.
27. Fonseca, Vagner; De Jesus, Ronaldo; Adelino, Talita; Reis, Alexandre Barbosa ; De Souza, Breno Bernardes; Ribeiro, Adriana Aparecida; Guimarães, Natália Rocha; Livorati, Miriam Teresinha Furlam Prado; Neto, Daniel Ferreira De Lima; Kato, Rodrigo Bentes; Portela, Layssa Miranda De Oliveira ; Dutra, Leonardo Hermes; Freitas, Carla; De Abreu, André Luiz; Filizzola, Eduardo Regis Melo; De Medeiros, Arnaldo Correia ; Iani, Felipe Campos De Melo; Carvalho, Glauco; Lourenço, José; De Oliveira, Tulio; Alcantara, Luiz Carlos Junior ;**Giovanetti, Marta**. Genomic evidence of SARS-CoV-2 reinfection case with the emerging B.1.2 variant in Brazil. *Journal of Infection*, v. 1, p. 11, 2021.
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