

**CURRICULUM VITAE**  
**Andrea Gamarnik**  
**Directora Instituto de Investigaciones Bioquímicas de Buenos Aires**  
**Jefa de Laboratorio de Virología Molecular**  
Fundación Instituto Leloir-CONICET

**INFORMACIÓN PERSONAL**

Fecha de Nacimiento: 5 de Octubre 1964  
Nacionalidad: Argentina  
Dirección: Av. Patricias Argentinas 435, 1405, Buenos Aires, Argentina  
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**EDUCACIÓN**

1989 - 1993 Doctora de la Universidad de Buenos Aires, Facultad de Farmacia y Bioquímica Buenos Aires, Argentina. Calificación: Sobresaliente  
1983 - 1988 Bioquímica. Egresada de la Facultad de Farmacia y Bioquímica Universidad de Buenos Aires, Argentina. Distinción mejor promedio

**CARGOS**

2017-Presente Directora del Instituto de Investigaciones Bioquímicas de Buenos Aires, CONICET  
2020-Presente Miembro de la Carrera de Investigador del CONICET Categoría: Superior  
2002- Presente Jefe de Laboratorio de Virología Molecular, Fundación Instituto Leloir  
2012-2021 Miembro del Consejo Directivo del Instituto de Investigaciones Bioquímicas de Buenos Aires (IIBBA-CONICET).  
2014- 2020 Miembro de la Carrera de Investigador del CONICET Categoría: Principal  
2008-2013 Miembro de la Carrera de Investigador del CONICET Categoría: Independiente  
2002-2008 Miembro de la Carrera de Investigador del CONICET Categoría: Adjunto  
2007-2014 Miembro del Consejo de Administración de la Fundación Instituto Leloir.  
2011-2012 Vicepresidenta de la Fundación Instituto Leloir.  
2005-2006 Gerente de Administración de la Fundación Instituto Leloir  
2000 -2001 Investigadora Asociada, Departamento de Investigación y Desarrollo, ViroLogic Inc., South San Francisco, USA (Monogram Biosciences). Desarrollo de ensayos fenotípicos de resistencia a drogas HIV, Hepatitis C y B  
1994 - 1999 Post-Doctorado en Virología, Departamento de Microbiología e Inmunología UC San Francisco, USA.

**PREMIOS Y DISTINCIONES**

2023 Distinción KONEX en Ciencia y Tecnología 2013-2023. Desarrollos Tecnológicos  
2022 Premio Investigadora de la Nación  
2022 Premio Houssay trayectoria  
2021 Incorporación como Miembro de la Academia Americana de las Artes y las Ciencias  
2021 Laurel de Plata por trayectoria, otorgado por el Rotary Club de Buenos Aires  
2017 Premio Trayectoria en Microbiología Asociación Argentina de Microbiología  
2017 Miembro de la Academia de Ciencias de América Latina, ACAL  
2017 Premio Democracia, Caras y Caretas, Rubro Ciencia y Técnica  
2016 Premio Internacional L'Oréal-UNESCO por las Mujeres en la Ciencia por América Latina  
2014 Incorporación como Miembro de la Academia Americana de Microbiología  
2013 Premio Konex en Ciencia y Tecnología. Mención Microbiología por trayectoria 2003-2013

- 2005-2011 International Research Scholar, Howard Hughes Medical Institute. Programa Internacional de Enfermedades Infecciosas
- 2010 Personalidad Destacada de las Ciencias por el Gobierno de la Ciudad de Bs As ley 3407
- 2009 Premio Golda Meir para mujeres distinguidas en las Artes Humanidades y Ciencias
- 2009 Premio Nacional L'Oréal-UNESCO-CONICET por las Mujeres en la Ciencia (Argentina)
- 2005 Fellowship ICGEB. Trieste Italy
- 2001 Beca de Reinstalación en Argentina Carrillo-Oñativia, Ministerio de Salud Pública.
- 1989-93 Beca Doctoral Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina
- 1987-89 Beca de Investigación para Estudiantes la Secretaria de Ciencia y Tecnología, UBA, Argentina
- 1989 Medalla de Oro al Mejor Promedio, Facultad de Farmacia y Bioquímica, UBA, Argentina
- 1987-88 Beca de Ayuda Económica para Estudiantes de Facultad de Farmacia y Bioquímica, UBA.
- 1983-87 Beca de Estudios para Jóvenes destacados del partido de Lanús, Colegio de Farmacéuticos de Lanús

### **SERVICIO A LA COMUNIDAD CIENTÍFICA**

- 2020-present Miembro de Comité Asesor Laboratoire d'Excellence de Francia. Program: Integrative Biology of Emerging Infectious Diseases
- 2009-present Editora Académica de la revista PLoS Pathogens
- 2020-2022 Miembro del comité coordinador de Unidad Coronavirus del Ministerio de Ciencia Tecnología en Innovación de la Nación.
- 2019 Organizadora, Keystone Symposium, Positive- Strand RNA Viruses, Killarney, Ireland. <http://www.keystonesymposia.org/19E2>
- 2007-2015 Miembro de Editorial Board de la revista Virology
- 2019 Miembro de Comisión Asesora de CONICET en Temas Estratégicos de Salud
- 2017 Miembro de Comisión Ad-hoc del área de Ciencias Biológicas de Células y Moléculas del sistema de evaluación de proyectos científicos y tecnológicos, MINCyT.
- 2011-2012 Miembro de Comisión Asesora de Bioquímica y Biología Molecular del CONICET
- 2009-2010 Miembro de la Coordinadora de área de Ciencias Biológicas de Células y Moléculas del sistema de evaluación de proyectos científicos y tecnológicos, MINCyT.
- 2008-Present Evaluadora científica de proyectos para: Wellcome Trust, Human Frontiers, Horizon Breakthrough Projects, The Netherlands Genomics Initiative Horizon Program, Pasteur Institute and French National Research Agency entre otros.
- 2008-2016 Miembro de jurado de subsidio "Programa de enfermedades infecciosas desatendidas" Fundación Bunge & Born, Argentina
- 2008-2020 Miembro del Comité Organizador del I al VI "Pan-American Dengue Research Network Meeting", Brazil 2008, Mexico 2010, Colombia 2012, Brazil 2014, Panama 2016, Galveston USA 2018
- 2012 Organizadora del "3er ICGEB International Course on Human RNA Viruses", April 2-5, Argentina
- 2011 Coordinadora del encuentro "Re-Emerging Challenge in the Americas: Opportunities for Dengue Research Collaboration" Sponsored by NIAID de NIH, Puerto Rico, February 16-18, 2011
- 2008-2019 Miembro comité organizador del IX, X and XII Congreso Nacional de Virología, Buenos Aires

## ACCIONES DE EMERGENCIA FRENTE A LA PANDEMIA

**2020-presente Coordinación del grupo COVIDAR:** Desarrollo y producción del primer kit serológico nacional COVIDAR IgG e IgM para la detección de anticuerpos contra SARS-CoV-2 aprobado por ANMAT

### 2020-2023

Dirección de programa para asistencia sanitaria a hospitales públicos del país para evaluación de respuesta inmune humoral frente a infecciones y vacunas contra el nuevo coronavirus. Asistencia para generación de guías para uso de plasmas de convalecientes, vigilancia epidemiológica activa en barrios y personal de geriátricos. Coordinación de programa de evaluación de respuesta inmune a vacunas empleadas en Argentina organizado por Mincyt y Ministerio de Salud de la Nación y de la Provincia de Bs As. Cooperación sanitaria con el PAMI entre otras actividades.

## FORMACIÓN DE RECURSOS HUMANOS

### Dirección de Tesis Doctorales finalizadas

- Guadalupe Costa Navarro, Fac de Ciencias Exactas y Naturales. UBA. Sobresaliente. Feb 2023
- Laura Byk Facultad de Ciencias Exactas y Naturales. UBA. Sobresaliente. Abril 2017
- Sergio Villordo. Facultad de Ciencias Exactas y Naturales. UBA. Sobresaliente. Abril 2016
- Juan A. Mondotte. Facultad de Ciencias Exactas y Naturales. UBA. Sobresaliente. Abril 2011
- Marcelo Samsa. Universidad Nacional de Quilmes. Sobresaliente. Diciembre 2010
- Diego Alvarez, Facultad de Farmacia y Bioquímica, UBA. Sobresaliente, distinción **Summa cum laude**. Diciembre 2008
- Silvana Fucito, Beca de CONICET, Facultad de Ciencias Exactas y Naturales. UBA. Calificación: Sobresaliente, Abril 2008
- Fernanda Lodeiro Merlo, Beca CABBIO, Facultad de Farmacia y Bioquímica, UBA. Sobresaliente. Abril 2007
- Cecilia Czibener, Co-Dirección, Beca CONICET. Universidad de Gral. San Martín. Calificación: Sobresaliente. Diciembre 2003

### Dirección de postdoctorados finalizados

- Dra Claudia Filomatori, 2004-2008
- Dr. Nestor Gabriel Iglesias, 2008-2011
- Dr. Leopoldo Gebhard, 2010-2013
- Dra Luana de Borba 2012-2016
- Dr. Federico De Maio, 2013-2016
- Dr. Juan Carballeda, 2015-2018
- Dra. Maria Mora Gonzalez Lopez Ledesma (2017-2018)

### Dirección de Tesis de Licenciatura

- Licenciada en Biología Ana Laura De Lella Ezcurra. Facultad de Ciencias Exactas y Naturales, UBA. Calificación: Sobresaliente. Julio 2003.

### Dirección de tesis doctorales en curso

- Horacio Pallares, inicio mayo 2017, beca doctoral de CONICET abril 2018
- Guadalupe Costa Navarro, beca doctoral de CONICET abril 2017

### Dirección becarios posdoctorales en curso

- Dr. Diego Ojeda (2019)
- Dr. Santiago Oviedo Rouco (2020)

#### Dirección de investigadores en curso

- Luana de Borba, Investigadora Asistente, CONICET desde 2016
- Dra. María Mora Gonzalez Lopez Ledesma, Investigadora Asistente, CONICET desde 2019

## **ACTIVIDADES DE TRANSFERENCIA TECNOLÓGICA**

**2020-presente Dirección del grupo COVIDAR:** Desarrollo kit serológico COVIDAR IgG e IgM para la detección de anticuerpos contra SARS-CoV-2 con aprobación por ANMAT

**2020-2022** Asistencia sanitaria frente a la pandemia.

## **Consultorías y Asesoramientos**

2021 - 2022 Laboratorio Richmond, Argentina, Asistencia técnica

2009-2011 ROCHE, Palo Alto, California US, provide advice in the dengue antiviral program

2002-2003 ViroLogic Inc. (currently, Monogram Biosciences) California, US, provide advice on phenotypic assays of HCV and fitness assays for HIV

## **Transferencia de productos**

Desarrollo de sistemas biológicos para identificación de drogas antivirales para dengue, acuerdo de servicio con:

- i) Sanford-Burnham Institute, San Diego (2012)
- ii) Roche, Palo Alto, California (2011)
- iii) Novartis Institute for Tropical Diseases, Singapore (2010)

## **Patentes**

Parkin, N. T., Paxinos, E, Chappey, C, Wrin M. T., **Gamarnik, A**, Petropoulos, C. J. Method for determining human immunodeficiency virus type 1 (HIV-1) hypersusceptibility to the protease inhibitor amprenavir. US 7,553,618, issued June 30, 2009

Parkin N. and **Gamarnik A** (2003) Compositions and Methods for Determining Susceptibility of Hepatitis C Virus to Anti-Viral Drugs. Publication Number WO/2003/093492, US 20030028011.

Huang W, Wrin Mary T, **Gamarnik A.**, Beauchaine J, Whitcomb J M, Petropoulos Christos J, Parkin Neil T. Compositions and Methods for Determining the Replication Capacity of a Pathogenic Virus. Patente Internacional: PCT/US2003/021024- US 20040063191

## **INVITACIÓN A REUNIONES Y CONGRESOS CIENTÍFICOS COMO CONFERENCISTA**

- Conferencia Alfredo Lanari, Reunión anual Sociedades de Biociencias, Mar del Plata, Argentina, Noviembre 2022
- Plenary Lecture, XIII Congreso Argentino de Virología, December, 2021, Argentina
- Invited speaker, Congreso conjunto SAIB-SAMIGE, November 1-5, 2021
- Invited speaker, Life Science Across The Globe, SISS, HHMI, July 15, 2020
- Invited speaker, UCSF-QBI COVID 19 Research Symposium, June 19, 2020

- Invited speaker, Gordon Conferences “Viruses and Cells”, 26-31 May 2019, Barga, Italy
- Invited speaker, Keystone Symposium “Positive Strand RNA Viruses” June 2019, Killarney Ireland.
- Plenary Lecture, XXIX Brazilian Virology Congress, XI Mercosur Virology Meeting, 18-20 October 2018, Gramado, Porto Alegre, Brazil
- Plenary Lecture, PABMB Lecture, 41st Meeting Chilean Biochemistry and Molecular Biology Society, Iquique, Chile, September 25-28 2018
- Invited Speaker, Frontiers in Biosciences III, 17-19 September 2018, Argentina
- Plenary Lecture, XII Congreso Argentino de Virología, September 16-18, 2017, Argentina
- Plenary Lecture, 36<sup>th</sup> Annual Meeting of the American Society for Virology, Madison, Wisconsin, USA, June 24<sup>th</sup> to 28<sup>th</sup>, 2017
- Plenary Lecture, 72 Congreso Argentino de Bioquímica, 22-27 August 2017 Buenos Aires
- Invited Speaker, Satellite Symposium Ecology and Virus Evolution at the ASV2017, Madison, USA, June 24<sup>th</sup> 2017
- Semi-Plenary, Joint Meeting Bioscience Societies, November 13-17 2017, Buenos Aires, Argentina
- Invited speaker, fifth Pan-American Dengue Network Meeting Panama, April 20-23, 2016
- Plenary Lecture, XXIII Congreso Latinoamericano de Microbiología y XIV Congreso Argentino de Microbiología, Rosario, Argentina, 26-30 Septiembre, 2016
- Conferencia dictada en la Academia de Ciencias de Francia, Paris, Marzo 2016
- Convener and speaker, ASM2015 Symposium Evolution, Adaptation, and RNA Viral Scape to Insect and Human Sensing. New Orleans, USA, June 2015.
- Plenary Lecture, XI Congreso Argentino de Virología, September 2015, Buenos Aires, Argentina
- Invited Speaker, Keystone Symposium on *The Ins and Outs of Viral Infection: Entry, Assembly, Exit and Spread*. Colorado, USA, March 2014.
- Plenary Lecture, Fourth Pan-American Dengue Research Network Meeting, Belem, Brazil, September 2014
- Invited Speaker and Co-Chair, Keystone Symposium on *Positive Strand RNA Viruses*, Boston, USA, April 28-May 3, 2013
- Invited Speaker, 58 Annual Meeting Sociedad Argentina de Investigación Clínica, 20-23 November 2013, Mar del Plata, Argentina
- Invited Speaker, Novartis Institute for Tropical Diseases Conference on Dengue Virus, Sao Paulo Brazil, 2012
- Plenary Lecture, Third Pan-American Dengue Research Network Meeting, Colombia, September 2012
- Invited Speaker, IUBMB Symposium at the XLVIII Annual Meeting, Argentinean Society of Biochemistry and Molecular Biology, October 29<sup>th</sup> to Nov. 1<sup>st</sup> 2012, Mendoza, Argentina
- Plenary Lecture, 1<sup>st</sup> International Meeting on Pathogens, Sao Paulo, Brazil, August 2011
- Invited Speaker, 9<sup>th</sup> International Symposium on Positive Strand RNA Viruses, Atlanta, USA, May 17-23, 2010
- Plenary Lecture, Second Pan American Dengue Research Network Meeting, Cancun, Mexico 16-19 November 2010
- Invited Speaker, Keystone Symposium on Cell Biology of Virus Entry, Replication and Pathogenesis, New Mexico, USA, February 16 - 21, 2010
- Lecture, Workshop Replication and Recombination of RNA Virus Genomes, sponsored by Juan March Foundation, Madrid, Spain. October 2009
- Plenary Lecture at the 6th National Congress of Virology Mexico, Merida, November, 2009
- Invited Speaker at the RNA structure and Function Meeting, Howard Hughes Medical Institute, Janelia Farm, USA March 2009
- Plenary Lecture, First Pan-American Dengue Network Meeting, Recife, Brazil 2008
- Conference, University of Pennsylvania, USA 8-10 May 2008

- Invited speaker Eurovirology Meeting, Flavivirus Symposium, Nuremberg, Germany, 2007
- Invited speaker, Gordon Conference, Viruses and Cells, Tilton School Tilton, NH, USA 2007
- Invited speaker, Gene expression and RNA processing Meeting, Bariloche, Argentina 2007
- Conference, The Rockefeller University, invited by Dr. Charles Rice, New York, USA, 2007
- Invited speaker, Max Planck Society sponsored German-Argentine Workshop, Argentina 2007
- Conference, University of Wisconsin invited by Dr. Paul Ahlquist, Madison, USA 2006
- Invited speaker, Instituto Oswaldo Cruz, Rio de Janeiro, Brazil, May 2006
- Conference, University of Chicago, USA, July 2006
- Invited speaker, Novartis Foundation Symposium on New Treatment Strategies for Dengue and other Flaviviral Diseases, NITD, Singapore, 2005
- Invited speaker, 2nd Asian Regional Dengue Research Network Meeting, 28-30 September, Singapore, 2005
- Invited speaker, VIII Congreso Argentino de Virología, Buenos Aires, 19-22 September 2005
- Conference, DENFRAME Program, Pasteur Institute, Paris, France, 2005
- Invited speaker, International Symposium on Positive Strand RNA viruses, San Francisco, USA, 27 May to 1 June 2004

## PUBLICACIONES

1. Dengue virus NS5 degrades ERC1 during infection to antagonize NF- $\kappa$ B activation. M Gonzalez Lopez Ledesma, G. Costa Navarro, H. Pallares, A. Paletta, F. De Maio, N. Iglesias, L. Gebhard, S. Oviedo Rouco, D. Ojeda, L. de Borba, M. Giraldo, R. Rajsbaum, A. Ceballos, N Krogan, P. Shah, **Gamarnik AV**. *PNAS* 2023 Jun 6;120(23):e2220005120. doi: 10.1073/pnas.2220005120
2. Comparative analysis of humoral immune response upon the three first vaccines applied in Argentina: IgG production and neutralizing capacity against SARS-CoV-2. Giai C, Salassa B, Zarelli V, Bello O, Vanrell MC, Ojeda D, **Gamarnik AV**, Colombo M. *Heliyon*. 2023 May;9(5):e15211
3. Heterologous booster response after inactivated virus BBIBP-CorV vaccination in older people. Oviedo Rouco S, Rodriguez PE, Miglietta EA, Pablo Rall, Gonzalez Lopez Ledesma MM, Augusto Varese, Pascuale CA, Ojeda DS, Mazzitelli B, Sanchez L, Ceballos A, Eduardo Perez, Geffner J, Miragaya Y, Rossi AH, **Gamarnik AV**. *Lancet Infect Dis*. 2022 Jun 28; S1473-3099(22)00427-3. doi: 10.1016/S1473-3099(22)00427-3
4. SARS-CoV-2-Specific IgG and IgA response in maternal blood and breastmilk of vaccinated naïve and convalescent lactating participants. Longueira Y, Ojeda DS, Battistelli RBA, Sanchez L, Oviedo Rouco S, Albano D, Guevara E, Valls V, Pando MA, **Gamarnik AV**. *Front Immunol*. 2022 Oct 3;13:909995. doi: 10.3389/fimmu.2022.909995. eCollection 2022. PMID: 36263055
5. Immunogenicity and reactogenicity of heterologous immunization against SARS CoV-2 using Sputnik V, ChAdOx1-S, BBIBP-CorV, Ad5-nCoV, and mRNA-1273. Pascuale CA, Varese A, Ojeda DS, Pasinovich ME, .... Castelli JM, Geffner J, **Gamarnik AV**. *Cell Rep Med*. 2022 Aug 16;3(8):100706. doi: 10.1016/j.xcrm.2022.100706. Epub 2022 Aug 3. PMID: 35926505
6. Immunological study of COVID-19 vaccine candidate based on recombinant spike trimer protein from different SARS-CoV-2 variants of concern. Rudi E, Martin Aispuro P, Zurita E, Gonzalez Lopez Ledesma MM, Bottero D, Malito J, Gabrielli M, Gaillard E, Stuible M, Durocher Y, **Gamarnik AV**, Wigdorovitz A, Hozbor D. *Front Immunol*. 2022 Sep 29;13:1020159. doi: 10.3389/fimmu.2022.1020159. eCollection 2022. PMID: 36248791

7. Humoral response and neutralising capacity at 6 months post-vaccination against COVID-19 among institutionalised older adults in Argentina. Rodriguez PE, Silva AP, Miglietta EA, Rall P, Pascuale CA, Ballejo C, López Miranda L, Ríos AS, Ramis L, Marro J, Poncet V, Mazzitelli B, Salvatori M, Ceballos A, Gonzalez Lopez Ledesma MM, Ojeda DS, Aguirre MF, Miragaya Y, **Gamarnik AV**, Rossi AH; Laboratorio SeVa Group; PAMI Group. *Front Immunol.* 2022 Sep 26;13:992370. doi: 10.3389/fimmu.2022.992370. eCollection 2022. PMID: 36225925
8. Antibody durability at 1 year after Sputnik V vaccination. Sanchez L, Oviedo Rouco S, Pifano M, Ojeda DS, Pascuale CA, Mazzitelli B, Di Diego Garcia F, Gonzalez Lopez Ledesma MM, Rodriguez PE, Miglietta EA, Ceballos A, Rossi AH, Kreplak N, Geffner J, **Gamarnik AV**. *Lancet Infect Dis.* 2022 May;22(5):589-590. doi: 10.1016/S1473-3099(22)00176-1. Epub 2022 Mar 16.
9. Omicron Breakthrough Infection After Heterologous Prime-Boost Vaccination Induces a Vigorous Antibody Response. Varese A, Mazzitelli B, Erra Díaz F, Kjolhede MV, Ojeda D, Vellicce A, Arto P, Cicero C, Pascowsky M, Figueras L, Broese B, Dávila R, Zarlenga R, Rivelli F, Verruno C, Silenzi V, Beltrán I, **Gamarnik A**, Ceballos A, Zala C, Badolati A, Geffner J. *J Infect Dis.* 2022 Nov 11;226(10):1717-1720. doi: 10.1093/infdis/jiac250. PMID: 35723970
10. Anthropogenic Infection of Domestic Cats With SARS-CoV-2 Alpha Variant B.1.1.7 Lineage in Buenos Aires. Pecora A, Malacari DA, Mozgovej MV, Díaz MLÁ, Peralta AV, Cacciabue M, Puebla AF, Carusso C, Mundo SL, Gonzalez Lopez Ledesma MM, **Gamarnik AV**, Rinaldi O, Vidal O, Mas J, Dus Santos MJ. *Front Vet Sci.* 2022 Mar 1;9:790058. doi: 10.3389/fvets.2022.790058. eCollection 2022.
11. Longitudinal Study after Sputnik V Vaccination Shows Durable SARS-CoV-2 Neutralizing Antibodies and Reduced Viral Variant Escape to Neutralization over Time. Gonzalez Lopez Ledesma MM, Sanchez L, Ojeda DS, Oviedo Rouco S, Rossi AH, Varese A, Mazzitelli I, Pascuale CA, Miglietta EA, Rodríguez PE, Pallarés HM, Costa Navarro GS, Caramelo JJ, Rothlauf PW, Liu Z, Bloyet LM, Cornejo Pontelli M, Rasetto NB, Wenker SD, Ramis LY, Bialer MG, de Leone MJ, Hernando CE, Bianchimano L, Ríos AS, Treffinger Cienfuegos MS, Rodriguez García DR, Longueira Y, Laufer N, Alvarez D, Ceballos A, Ochoa V, Monzani C, Turk G, Salvatori M, Carradori J, Prost K, Rima A, Varela C, Ercole R, Toro RI, Gutierrez S, Zubieta M, Acuña D, Nabaes Jodar MS, Torres C, Mojsiejczuk L, Viegas M, Velazquez P, Testa C, Kreplak N, Yanovsky M, Whelan S, Geffner J, Pifano M, **Gamarnik AV**. *mBio.* 2022 Jan 25;13(1):e0344221. doi: 10.1128/mbio.03442-21.
12. Dengue Virus Capsid-Protein Dynamics in Live Infected Cells Studied by Pair Correlation Analysis. Gabriel MV, Sallaberry I, Costa Navarro GS, Gratton E, **Gamarnik AV**, Estrada LC. *Methods Mol Biol.* 2022;2409:99-117. doi: 10.1007/978-1-0716-1879-0\_8.
13. Dengue and Zika virus capsid proteins bind to membranes and self-assemble into liquid droplets with nucleic acids. Ambroggio EE, Costa Navarro GS, Pérez Socas LB, Bagatolli LA, **Gamarnik AV**. *J Biol Chem.* 2021 Sep;297(3):101059. doi: 10.1016/j.jbc.2021.101059. Epub 2021 Aug 8
14. In vivo pair correlation microscopy reveals dengue virus capsid protein nucleocytoplasmic bidirectional movement in mammalian infected cells. Sallaberry I, Luszczak A, Philipp N, Navarro GSC, Gabriel MV, Gratton E, **Gamarnik AV**, Estrada LC. *Sci Rep.* 2021 Dec 24;11(1):24415. doi: 10.1038/s41598-021-03854-z.
15. Extracellular acidosis enhances Zika virus infection both in human cells and ex-vivo tissue cultures from female reproductive tract. Varese A, Dantas E, Paletta A, Fitzgerald W, Di Diego Garcia F, Cabrerizo G, Erra Diaz F, Defelipe LA, Pallares H, Dodes Traian M, **Gamarnik A**, Geffner J, Remes Lenicov F, Margolis L, Ceballos A. *Emerg Microbes Infect.* 2021 Dec;10(1):1169-1179. doi: 10.1080/22221751.2021.1932606.

16. Sputnik V Vaccine Elicits Seroconversion and Neutralizing Capacity to SARS CoV-2 after a Single Dose. Rossi A, Ojeda S, Varese A, Sanchez L, Gonzalez Lopez Ledesma M, Mazzitelli I, Juliá , Rouco S, Pallarés H, Costa Navarro G, Rasetto N, Garcia CI, Wenker, Ramis, Bialer M, Jose de Leone M, Hernando CE, Sosa S, Bianchimano L, Rios A, Treffinger Cienfuegos MS, Caramelo J, Longueira Y, Laufer N, Alvarez D, Carradori J, Pedrozza D, Rima A, Echegoyen C, Ercole R, Gelpi P, Marchetti S, Zubieta M, Docena G, Kreplak N, Yanovsky M, Geffner J, Pifano M, **Gamarnik AV** *Cell Rep Med*. 2021 Jul 9:100359. doi: 10.1016/j.xcrm.2021.100359.
17. Emergency response for evaluating SARS-CoV-2 immune status, seroprevalence and convalescent plasma in Argentina. Ojeda DS, Gonzalez Lopez Ledesma MM, Pallarés HM, Costa Navarro GS, Sanchez L, Perazzi B, Villordo SM, Alvarez DE; BioBanco Working Group, Echavarria M, Oguntuyo KY, Stevens CS, Lee B, Carradori J, Caramelo JJ, Yanovsky MJ, **Gamarnik AV**. *PLoS Pathog*. 2021 Jan 14;17(1):e1009161. doi:10.1371/journal.ppat.1009161
18. Quantifying Absolute Neutralization Titers against SARS-CoV-2 by a Standardized Virus Neutralization Assay Allows for Cross-Cohort Comparisons of COVID-19 Sera. Oguntuyo KY, Stevens CS, Hung CT, Ikegame S, Acklin JA, Kowdle, Carmichael JC, Chiu HP, Azarm KD, Haas GD, Amanat F, Klingler J, Baine I, Arinsburg S, Bandres JC, Siddiquey MNA, Schilke RM, Woolard MD, Zhang H; **COVIDAR Argentina Consortium**, Duty AJ, Kraus TA, Moran TM, Tortorella D, Lim JK, **Gamarnik AV**, Hioe CE, Zolla-Pazner S, Ivanov SS, Kamil JP, Krammer F, Lee B. *MBio*. 2021 Feb 16;12(1):e02492-20. doi: 10.1128/mBio.02492-20
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