

CURRICULUM VITAE

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Ministerio de Agricultura,  
Ganadería y Pesca  
Presidencia de la Nación

# HUMBERTO JULIO DEBAT



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CORDOBA ARGENTINA

MARCH 27, 2023

# HUMBERTO JULIO DEBAT

GENERAL INDEX [ *ACCESS THE SECTION WITH CONTROL + CLICK ON* [GO](#) ]

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- Personal, Digital and Professional info [ [GO](#) ]
  - Current Position [ [GO](#) ]
- Other Positions, Functions and University Studies [ [GO](#) ]
  - Languages, Other Studies [ [GO](#) ]
  - Undergraduate and Postgraduate Teaching [ [GO](#) ]
- Dissertations, Organization of Events, Foreign Missions [ [GO](#) ]
  - International Scientific Publications [ [GO](#) ]
    - PanLingua [ [GO](#) ]
    - Book Chapters [ [GO](#) ]
- Scientific Publications in Congresses, Conferences Symposiums [ [GO](#) ]
  - Genomics of SARS-COV-2 in Argentina: PAIS Project [ [GO](#) ]
    - Yerba Mate Genome: Pro.Mate.Ar Project [ [GO](#) ]
      - Other Publications [ [GO](#) ]
    - Human Resources Training [ [GO](#) ]
    - Public Data Management [ [GO](#) ]
  - Attendance to Congresses and Conferences [ [GO](#) ]
    - Participation in Research Projects [ [GO](#) ]
    - Postgraduate Courses Completed [ [GO](#) ]
      - Other Trainings [ [GO](#) ]
  - Scholarships and Travel Fellowships obtained [ [GO](#) ]
    - Awards and Distinctions Received [ [GO](#) ]
- Dissemination, Comments and Interviews in General Media [ [GO](#) ]
  - Audiovisual Production, General Media, Radio and TV [ [GO](#) ]
  - Membership of Academic and Professional Societies [ [GO](#) ]
- Referee & Member of Editorial Committee of Academic Journals [ [GO](#) ]

## PERSONAL, DIGITAL AND PROFESSIONAL INFO

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- Personal ID: 29965267
- Place and date of birth: Córdoba, Argentina. 12/28/1982 (40 years).
- Work address: September 11, 4755, CP: X5020ICA, Córdoba, Argentina.
- Email: [debat.humberto@inta.gob.ar](mailto:debat.humberto@inta.gob.ar)
- ORCID ID: [0000-0003-3056-3739](https://orcid.org/0000-0003-3056-3739)
- Google Scholar: [Humberto Debat](https://scholar.google.com/citations?user=HumbertoDebat)
- Twitter: [@humbertodebat](https://twitter.com/humbertodebat)
- ResearchGate: [Humberto Debat](https://www.researchgate.net/profile/Humberto-Debat)
- GitHub: <https://github.com/humbertodebat>
- Rxiivist : <https://rxivist.org/authors/210571>
- Other profiles: [Frontiers Loop](#), [Microsoft Academic](#), [Scopus](#), [Mincyt](#), [INTA](#), [Academia.edu](#), [Publons](#), [Mendeley profile](#), [SciProfile](#), [Lens.org](#).

## CURRENT POSITION

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- **Research Scientist (With Tenure)**/ Institute of Plant Pathology - Center for Agricultural Research - National Institute of Agricultural Technology (IPAVE-CIAP-INTA). Cordoba Argentina. Since 2/2014.

## OTHER POSITIONS, FUNCTIONS AND STUDIES

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- Member of the **Advisory Committee on Open** and Citizen Science of the Ministry of Science, Technology and Innovation of Argentina. Since 2021.
- Member of the **Board of Directors** of the Plant Pathology and Agricultural Modeling Unit (UFyMA), Dual Dependency Executing Unit (UEDD), INTA-CONICET. 2018-2022.
- Technical Manager of CIAP-INTA to the **National System of Genomic Data**. Since 2017.
- Supervisor of CIAP-INTA in the institutional Platform of INTA: "**ICT and Big Data Management**". 2019-2023.

- Member of the Technical Committee of the INTA-I207 Structural Projects: **Prospective and Technological Observatories**, representative from the National Biotechnology Program. 2019-2023.
- Member of the Network of Experts of the **Argentine National Pest Surveillance and Monitoring System** (Sinavimo). Since 2018.
- Co-Lead for the **Bioinformatics Commission** of the Institute of Plant Pathology-CIAP (CBI). Since 2017.
- Member of the CIAP **CYMAT sub-delegation**. 2017-2021.
- Contract Researcher 1.8.7 IPAIVE-CIAP-INTA. (1/2012-1/2014).
- Doctoral Scholar Fellow in Biology of the National Council for Scientific and Technical Research (CONICET). National University of Córdoba, Argentina. (4/2009-1/2012)
- Postgraduate: Management Specialization **in Science, Technology and Innovation**, Ajou University, South Korea. 2015.
- **Biologist**, Faculty of Exact, Physical and Natural Sciences, National University of Córdoba, Argentina. 2009.

#### KNOWLEDGE OF LANGUAGES, SECONDARY STUDIES

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- John Adams High School, Graduated with Honors, “*Cum Laude*”, Ranking 13 of 217. South Bend, IN USA.
- Manuel Belgrano High School of Commerce, Córdoba Argentina.
- Student Exchange Scholar to Indiana, USA in the *Youth For Understanding program*.
- Qualifications “Above Standard” in English / Language Arts in ISTEP (Indiana Statewide Testing for Educational Progress), USA.

#### UNDERGRADUATE (8) AND POSTGRADUATE (11) TEACHING

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- Visiting Professor, Postgraduate Specialization Subject: Introduction to Virology, **Faculty of Exact Sciences, National University of La Plata**, virtual, December 2021 and October 2022.
  
- Organizer, Teacher and Coordinator of the Postgraduate Course: Analysis of Genomic Data in the Cloud: A short Workshop focused on SARS-CoV-2 and the Galaxy platform. Virtual, within the framework of the XI Argentine Congress of Bioinformatics and Computational Biology (**A2B2C**). November 2021.
  
- Visiting Professor, Lecturer on scientific production and communication in the Postgraduate Specialization in Public Communication of Science and Scientific Journalism, **National University of Córdoba**, Córdoba, August 2021.
  
- Visiting Professor, Postgraduate Course: Scientific Research Methodology for Biological Sciences of the Doctorate in Agricultural Sciences, **Catholic University of Córdoba**, Córdoba, May 2020 and May 2021.
  
- Visiting Lecturer, **eLife Innovation Leaders**, an open leadership training program for innovators developing open projects/tools for research. By teleconference, April 2020.
  
- Visiting Professor, International Postgraduate Course "Physiomics of stress responses in plants and their application to breeding", Brazilian Argentine Center for Biotechnology - **CABBIO**, Córdoba, August 2019.
  
- Visiting Professor, Specialization Subject of Degree "Biotechnology", theme: "Omics oriented to Biotechnology", Faculty of Exact, Physical and Natural Sciences, **National University of Córdoba**, Córdoba, March 2019.
  
- Co-Organizer and coordinator of the Postgraduate Course: "**RNA-seq data analysis**", Centro de Investigaciones Agropecuarias, Córdoba, May-June 2018.
  
- Visiting Professor, Specialization Subject of Degree "Biotechnology", topic: "Genetic Editing", Faculty of Exact,

Physical and Natural Sciences, **National University of Córdoba** , Córdoba, March 2018.

- Visiting Professor, Graduate Subject "Genetic Improvement", Faculty of Agricultural Sciences, **Catholic University of Córdoba**, Córdoba, November 2017.
  
- Visiting Professor, Postgraduate Course "Structure, Function and Evolution of the Plant Genome" Doctorate in Agricultural Sciences-Faculty of Agricultural Sciences, National University of **Rosario**, Santa Fe, June 2015. Coordinator: Dr. Silvina Pessino.
  
- Visiting Professor, Specialty Subject "Virology", Faculty of Exact, Physical and Natural Sciences, **National University of Córdoba**, Córdoba, October-November 2014.
  
- Visiting Professor in the Postgraduate Course "Introduction to Molecular Genetics" of the Master's in Biotechnology of the Faculty of Veterinary Medicine, University of Buenos Aires, **Autonomous** City of Buenos Aires, November 2012. Coordinator: Dr. Mónica Jacobsen.
  
- Instructor in the 4th International Postgraduate Course "Characterization, Diagnosis, Epidemiology of Viral Diseases and Mollicutes in Plants". **INTA-JICA**, Agricultural Research Center, Córdoba, September-October 2009.
  
- Teaching Assistant of Cellular Biology, Dr. Daniel Mascó's Commission of Practices, Faculty of Exact, Physical and Natural Sciences, **National University of Córdoba**, Córdoba, academic year 2003 and 2004. *Ad honorem*.
  
- Teaching Assistant of General Genetics , Faculty of Exact, Physical and Natural Sciences, **National University of Córdoba** , academic year 2004-2009. *Ad honorem* .
  
- Assistant Professor (interim) General Genetics, Faculty of Exact, Physical and Natural Sciences, **National University of Córdoba**, February-July 2010. *Ad honorem* .

- Organization of the international event *III RCM on Physical Mapping Technologies for the Identification and characterization of Mutated Genes Contributing to Crop Quality (IAEA-UNO)* , Córdoba, March 19-23, 2007.
- Dissertation: “ *Transgenic Plants* ” Within the framework of the visit to the IFFIVE of Students of the Agronomy career of the University of Catamarca. IFFIVE, October 2009.
- Dissertation: “ *Transgenic Plants* ” Within the framework of the visit to the IFFIVE of Students of the San José School of the City of Córdoba. IFFIVE, November 2009.
- Dissertation: “ *Development of constructions capable of inducing the RNAi or miRNA pathway to generate broad-spectrum resistance to Tospovirus* ” at the PPR AEPV 214002 Update and Advance Conference. December 13 and 14, 2010.
- Dissertation: “ *Resistance to Viruses by RNAi* ” at the Institute of Biotechnology, CICVyA, INTA Castelar Buenos Aires, August 30, 2011.
- Dissertation on “ *Resistance to viruses by RNAi* ” in the Postgraduate course “Introduction to Molecular Genetics” of the Master's Degree in Biotechnology of the Faculty of Veterinary Medicine, **University of Buenos Aires** , November 23, 2012.
- Dissertation: “ *Tospovirus and RNAi* ” Humberto Debat, Auditorium of the Institute of Biotechnology, CICVyA, INTA Castelar Buenos Aires, July 3, 2012.
- Dissertation: “ *Consideration to design of RNAi constructs using different technologies* ” Within the framework of the FO.AR “South-South and Triangular Cooperation with Middle East, Asia and Oceania countries: **Training RNAi technology Thailand** (Buenos Aires CICVyA, INTA Castelar , 10- 14 December 2012)”
- Participation as a panelist and organization in the **Plant Transgenesis circuit** , Genetic Improvement, Biotechnology area, Future Innovation, **INTA Expone** NOA, Cerrillos, Salta April 20-22, 2012.

- Dissertation: A Genome-Wide Expression Profile of Yerba Mate ( *Ilex paraguariensis* A. St.-Hil.). Plant Biochemistry and Molecular Biology session. *L Annual Meeting of the Argentine Society for Research in Biochemistry and Molecular Biology ( SAIB 50 years )*. November 11-14, 2014. Rosario, Argentina.
- Argentine Delegate at the **Visit Program for Argentine Experts** “Recent Advance in RNAi Technology”, 22–30 November 2014, with various lectures and bilateral exchange meetings at the National Center for Genetic Engineering and Biotechnology (BIOTEC), BIOTEC's Plant Research Laboratory at Kasetsart University, and the International Relations Office of BIOTEC in Bangkok, **Thailand**.
- Selected in a national call to carry out a " **Specialization in Management of New Technologies in Science** " at Ajou University, Suwon, **Korea** . August-November 2015. Funded by the Office of the National Cabinet of Ministers and the Korean Ministry of Education, Science and Technology.
- **Organizer and Chairman** of the Conference Cycle at the National Academy of Sciences ( **ANC** ) in the framework of the Day of Fascination of Plants. Cordoba, May 18, 2015.
- Dissertation: The transcriptional landscape of the subtropical tree crop yerba mate ( *Ilex paraguariensis* A. St.-Hil.). Crops of local interest session. International Plant Molecular Biology Congress, Iguazú Falls, Brazil, October 25, 2015.
- **Organizer and Chairman** of the Conference Cycle at the National Academy of Sciences ( **ANC** ) in the framework of the Day of Fascination of Plants. Cordoba, May 18, 2016.
- Dissertation: *Applications of NGS in Agricultural Viromics* . Conference on Updating Diagnosis Techniques and Identification of Pathogens in Crops of Agricultural Importance . October 12, 2017. Catholic University of Córdoba, Córdoba, Argentina.
- Dissertation: *Perspectives on bioinformatics in agricultural research in the medium and long term* . Agricultural Research Center-INTA . October 24, 2017. Cordoba, Argentina.
- Dissertation: *Preprints: Transforming the Scientific Publishing Archetype* . Agricultural Research Center -INTA . October 11, 2018. Cordoba, Argentina.



- Member of the Organizing Committee of the International Event **XXXII Argentine Meeting of Plant Physiology (RAFV) and the XV Latin American Congress of Plant Physiology** . Cordoba Argentina. November 11-15, 2018.
- **Organizer and Chairman** Seminar: ***A Paradigm shift in academic publishing: Open Science, Preprints and Reproducibility in Science*** . Speakers: Dr Randy W Schekman, Dr Richard Sever, Dr Casey Greene. XXXII Argentine Meeting of Plant Physiology (RAFV) and the XV Latin American Congress of Plant Physiology. November 11-15, 2018.
- Dissertation: ***Preprints in the Life Sciences*** . Panel "Transformations of scientific publication systems in times of open science" coordinated by Carla Giacomelli. Open and Citizen Science Conferences organized by the Ministry of Science and the National University of Córdoba . July 4-5, 2019. Córdoba, Argentina.
- Invited as a Researcher and Expert on Open Access issues at the meeting of the Government Secretariat for Science, Technology and Productive Innovation, Ministry of Science of Argentina : "***Towards a regional strategy for access to scientific journals***". August 29 and 30, 2019. CABA, Argentina.
- Dissertation: "***Preprints and scientific communication***" and "***Plan S in Latin America***". Within the framework of the **Scientific Communication cycle: New scenarios and controversies** in the international week of open access, an event organized by the Open Knowledge Office of the National University of Córdoba, Argentina. October 23, 2019.
- Panel speaker: ***Who will influence the success of preprints in biology and to what end?*** Moderator: Naomi Penfold (ASAPbio), Panelists: Theodora Bloom (Editor of BMJ, co-founder of MedRxiv), Amye Kendall (editorial director Springer Nature), Dario Taraborelli (Science program officer CZI) and Humberto Debat. October 16 at FORCE2019, University of Edinburgh, Edinburgh, UK.
- Dissertation: "***Exploring the world of Preprints in Life Sciences***". Within the framework of the workshop **Exploring the world of scientific prepublications** , an event organized by the National Directorate of Programs and Projects of MECCYT, Ministry of Science of Argentina at the Cultural Center of Science (C3), CABA, Argentina. November 12, 2019.

- Dissertation: *Scientific Knowledge as a Public Good: Challenges of Open Access and Open Science* . Institutional Seminars, Agricultural Research Center-INTA . November 14, 2019. Cordoba, Argentina.
- Invited to participate at the Workshop: [Preprints I/O](#): Strengthening the open science ecosystem by extending preprints at the **Chan Zuckerberg Biohub** , San Francisco, CA, USA, December 3-5, 2019. Organized by the Chan Zuckerberg Initiative and ASAPbio.
- Dissertation: " *Preprints in times of Pandemic* ", Teleconference, [event](#) of the Argentine Network of Scientific Journalism. April 30, 2020, Argentina.
- Dissertation: " *PanLingua : it takes two to tango* ", eLife Innovation Leaders Program, webinar, May 07, 2020.
- Dissertation in the [webinar panel](#) " *Reforming academic conferences* " Organized by eLife Sciences. Chair: S. Sarabipour (JHU, USA). Speakers: A. David (SLU, Sweden), **H. Debat** (INTA, Argentina), S. Seah (EMBL, Germany). May 27th, 2020.
- Dissertation, " *Advances in viruses that infect grapevine* " Institutional Seminars IPAVE, Center for Agricultural Research-INTA . August 27, 2020. Cordoba, Argentina. **H. Debat** and S. Gomez-Talquenca.
- Dissertation, " *Sequencing SARS-CoV-2 genomes at IPAVE* " Institutional Seminars IPAVE, Center for Agricultural Research-INTA . September 18, 2020. Córdoba, Argentina. **H. Debat** and F. Fernandez.
- Dissertation, in the [event](#) "Open with Purpose in Latin America. A reflection on how to build structural equity and inclusion" panelist in " *The challenges of Open Access in universities to achieve structural equity and inclusion* " organized by UNESCO, CLACSO, AmeliCA and DORA, within the framework of the international week of open access, 23 October 2020.
- Dissertation at the "OLinFER" [Congress](#) (Open & Linked Information Framework for Education and Research), organized by the University of Informatics Sciences, Havana, Cuba and Hasselt University, Diepenbeek, Belgium entitled: "Open Access in Times of *Pandemic* " , November 25, 2020.

- Invited as a researcher and specialist in open access issues to the plenary meeting on "National Consultation on the Draft **UNESCO Recommendation on Open Science** ", November 27, 2020, National Directorate for International Cooperation, Ministry of Education, Argentina .
- Dissertation at the “Joint Roadmap for Open Science Tools” (JROST) [Congress](#), December 14-16, 2020, virtual, in the panel ' *Bringing equity to the preprint ecosystem: how and with what tools* ' moderated by Iratxe Puebla (ASAPBbio). Presentation entitled “ **Preprints , Language and Scholar Communications** ”.
- **Member of the [Evaluation Committee](#)** of the Latin American Essay Contest on Open Access 2020 with the theme "Open with Purpose: take actions to build structural equity and inclusion" organized by AmeliCA, Redalyc-UAEM, UNESCO and CLACSO in December 2020. Book with essays selected [published](#) by the Autonomous University of the State of Mexico
- Invited as a specialist in preprints and open access to the [workshop](#) “ **Mapping shared technological needs for preprint-based collaboration** ” organized by ASAPbio and the Chan Zuckerberg Initiative. February 2, 2021, virtual.
- Dissertation at the II Latin America MCAA [Conference](#) : Scientific collaboration in Pandemic Times, on the [panel](#) Round-table: How to improve networking and collaboration for Latin America researchers in COVID times? Presentation titled **Rethinking Research in the face of the COVID-19 Pandemic** , March 19, 2021, virtual.
- Dissertation: Conference " **Variants of interest and concern of SARS-CoV-2** " in the virtual seminars open to the community of the Institute of Biotechnology and Molecular Biology, National University of La Plata. April 8, 2021.
- Dissertation: Conference " **Science in a Pandemic: Twitter, Preprints, Papers and a lot of Zoom** " in the virtual [institutional seminars](#) of the Institute of Biotechnology of Rosario (IBR-CONICET). May 21, 2021.
- Panel Presentation **Lessons and Silver Linings in Research Dissemination: Should COVID-19 Provide a Push Toward Lasting Change?** at the 43rd Annual Meeting of the Society for Scholarly Publishing Congress, May 25, 2021, virtual.

- Dissertation at the *Hoy COVID Symposium.... and tomorrow?* conference entitled *Redefining research and communication of science in the face of the COVID-19 pandemic* at the XXIV Scientific Conference of the Biology Society of Córdoba, Córdoba, August 25-27, 2021, virtual.
- Dissertation in the Discussion [Panel: Empowering Early Career Researchers to Improve Science](#) at The Metascience 2021 Conference , September 16-18 and 23-25, 2021, virtual. <https://youtu.be/ZoscCQgub5U?t=17>
- Co- Chairman of the “ **Meet the Editors** ” [panel](#) at the XXXII Argentine Meeting of Plant Physiology (RAFV) and the XV Latin American Congress of Plant Physiology, September 13-17, 2021, virtual.
- Joint [dissertation with Carolina Torres entitled: Variants of SARS-CoV-2 in Argentina](#) at the seminars of the Institute of Computer Science and the Institute of Calculation of the FCEN-UBA-CONICET. October 14, 2021, virtual. <https://youtu.be/4Kawp-vOhek>
- Moderator of the *Preprints Pros & Cons session* at the [Discovering Open Science Conference 2021](#) organized by the Free Knowledge Research Network, in conjunction with the Innovation HUB of Quito, Peru. October 14, 2021, virtual. <https://www.youtube.com/watch?v=53SVMLcSvXA>
- Dissertation in the panel discussion: “ *Córdoba, Argentina: leading case for containment of the Delta variant* ”, organized by EndCoronavirus and World Health Network, moderated by Nora Bar. November 3, 2021, virtual.
- Dissertation at the fireside chat [event " Shared Concerns in Open Research Communities "](#) hosted by [The Turing Way](#) , with Emmy Tsang (session moderator), Kate Hertweck, Tiago Lubiana and Melissa Mendonça virtual, December 10, 2021. <https://www.youtube.com/watch?v=yO3adCIXCu8&t=1758s>
- Dissertation at the [Symposium Research information management / Open Access / Open Science](#) conference titled [Open access in times of pandemic](#) in the [Hatun Tinkuy Peru 2022](#) , Lima Peru August 17-18, 2022.
- Dissertation: " *Redefining Research and Communication of Science in Times of ( Post? ) Pandemic* " at the Institutional Seminars of the

Institute of Biological Chemistry IQUBICEN-UBA- Faculty of Exact and Natural Sciences, University of Buenos Aires. September 9, 2022. <https://www.youtube.com/watch?v=R9UNhn5rj1s>

- Invited to participate and speak in the Workshop: [Notebooks Now!](#) at the **American Geophysical Union** headquarters, Washington, DC, USA, November 3-4, 2022, funded by the Alfred P. Sloan Foundation.
- Dissertation: " *A look at Research and Communication of Science in Post Pandemic Times* " at the Institutional Seminars of the Institute of Biotechnology, CICVyA, INTA Castelar Buenos Aires. November 7, 2022

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#### INTERNATIONAL SCIENTIFIC PUBLICATIONS (74)

FIRST/LAST/CORRESPONDING AUTHOR (35)

Citations **1433** / h-index **20** / i10-index **39** / updated at [Google Scholar](#)

#### 2023

- Torres C, Jodar MN, Acuña D, Zambrana R, Culasso A, Amadio A, Aulicino P, Ceballos S, Cacciabue M, Debat **HJ** , ... PAIS Working Group Project, Viegas M (2022) . Omicron Waves in Argentina: Dynamics of SARS-CoV-2 Lineages BA.1, BA.2 and the Emerging BA.2.12.1 and BA.4/BA.5. *Viruses* . doi: 10.3390/v15020312 [PDF](#) (ScimagoJR = Q1; IF2021 = **5.82** )
- **Debat HJ\***, García ML, Bejerman N\* (2023). Expanding the Repertoire of the Plant-Infecting Ophioviruses through Metatranscriptomics Data. *Viruses*. doi: 10.3390/v15040840 [PDF](#)  
\*Corresponding authors.  
(ScimagoJR = Q1; IF2021 = **5.82**)  
*Earlier MS version preprinted and publicly available at [bioRxiv](#)*
- **Debat HJ** , Bejerman N (2023). Two novel flavi-like viruses shed light on the plant infecting koshoviruses . *bioRxiv* . doi: 10.1101/2023.02.06.527325 [PDF](#)

#### 2022

- Bejerman N, **Debat HJ** (2022) Exploring the tymovirales landscape through metatranscriptomics data . *Archives of Virology* . doi: 10.1007/s00705-022-05493-9 [PDF](#)  
(ScimagoJR = Q2; IF2021 = **2.68** )  
*Earlier MS version preprinted and publicly available at [bioRxiv](#)*
- Kent BA, Holman C, Amoako E, ... **Debat HJ** , ... Wissgerber T (2022) Recommendations for empowering early career researchers to improve research culture and practice. *PLOS Biology* . doi :10.1371/journal.pbio.3001680 . [PDF](#)  
(ScimagoJR = Q1; IF2021 = **9.59** )  
*Earlier MS version preprinted and publicly available at [OSF Preprints](#)*
- **Debat HJ\*** , Bejerman N (2022) A glimpse into the DNA virome of the unique “living fossil” *Welwitschia mirabilis* . *Gene*. doi: 10.1016/j.gene.2022.146806 [PDF](#) \*Corresponding author.  
*Earlier MS version preprinted and publicly available at [bioRxiv](#)*  
(ScimagoJR = Q2; IF2021 = **3.91** )
- Jacquat AG, Ulla SB, **Debat HJ** , Muñoz-Adalia EJ, Theumer MG, García Pedrajas MD, Dambolena JS (2022) An in silico analysis revealed a novel evolutionary lineage of putative mitoviruses. *Environmental Microbiology* . doi : 10.1111/1462-2920.16202 . [PDF](#)  
(ScimagoJR = Q1; IF2021 = **5.48** )
- **Debat HJ\*** (2022) A South American mouse morbillivirus sheds light into a clade of rodent-borne morbilliviruses. *Viruses* . 14(11):2403 doi: 10.3390/v14112403 [PDF](#) \*Corresponding author.  
(ScimagoJR = Q1; IF2021 = **5.82** )  
*Earlier MS version preprinted and publicly available at [bioRxiv](#)*
- Bejerman N\*, Dietzgen R\*, **Debat HJ\*** (2022) Unlocking the hidden genetic diversity of varicosaviruses, the neglected plant rhabdoviruses . *Pathogens* . 11(10), 1127 doi: 10.3390/pathogens11101127 [PDF](#) \*Corresponding authors.  
(ScimagoJR = Q2; IF2021 = **6.29** )  
*Earlier MS version preprinted and publicly available at [bioRxiv](#)*
- Zambrana R, Culasso A, Fernández F, Marquez N, **Debat HJ** , ... Torres C, Viegas M (2022) Evolution of SARS-CoV-2 during the

first year of the COVID-19 pandemic in Northwestern Argentina.

**VirusResearch**. doi: 10.1016/j.virusres.2022.198936 [PDF](#)

(ScimagoJR = Q1; IF2021 = 4.53 )

Earlier MS version preprinted and publicly available at [bioRxiv](#)

- Ribeiro JM, Hartmann D, Bartošová-Sojková P, **Debat HJ** , Moos M, Šimek P, Fara J, Palus M, Kučera M, Hajdušek O, Sojka D, Kopáček P, Perner J (2022) Integrative assessment of the transcriptome and virome of the poultry red mite *Dermanyssus gallinae*. **bioRxiv** . doi: 10.1101/2022.04.21.489001 [PDF](#)
- Cabrera-Mederos D, **Debat HJ** , Torres C, Portal O, Zapata MJ, Trucco V, Flores C, Ortiz C, Badaracco A, Acuna L, Nome C, Quito-Avila D, Bejerman N, Collazo OC, Sanchez-Rodriguez A , Giolitti F (2022) An unwanted association: the threat to papaya crops by a novel potexvirus in northwest Argentina. **Viruses** . 14(10), 2297 doi: 10.3390/v14102297 [PDF](#)  
(ScimagoJR = Q1; IF2021 = 5.82 )  
Earlier MS version preprinted and publicly available at [bioRxiv](#)

## **2021**

- Sarabipour S, Schwessinger B, Mumoki FN, Mwakilili AD, Khan A, Saez P, Seah S, **Debat HJ** , Mestrovic T (2021) Changing scientific meetings for the better. **Nature Human Behaviour** , 5:296-300. doi: 10.1038/s41562-021-01067-y [PDF](#)  
( ScimagoJR = Q1; IF2021 = 24.25 )  
Earlier MS version preprinted and publicly available at [bioRxiv](#)
- Bejerman N, Dietzgen RG, **Debat HJ** (2021) Illuminating the Plant Rhabdovirus Landscape through Metatranscriptomics Data . **Viruses** . 13(7), 1304. doi: 10.3390/v13071304 [PDF](#)  
(ScimagoJR = Q1; IF2021 = 5.82 )  
Earlier MS version preprinted and publicly available at [bioRxiv](#)
- Kuhn JH, Adkins S, Agwanda B... **Debat HJ** *et al* . (2021) Taxonomic update of phylum *Negarnaviricota* ( *Riboviria*: *Orthornavirae* ), including the large orders *Bunyavirales* and *Mononegavirales* . **Archives of Virology** . doi: 10.1007/s00705-021-05143-6 [PDF](#)  
(ScimagoJR = Q2; IF2021 = 2.68 )

- Torres C , Mojsiejczuk L, Acuna D, Alexay S, Amadio A‡, Aulicino P‡, **Debat HJ**‡ , Fay F‡... & PAIS Consortium, Viegas M (2021) Cost-effective method to perform SARS-CoV-2 variant surveillance: detection of Alpha, Gamma, Lambda, Delta, Epsilon and Zeta in Argentina . ‡These authors have contributed equally to this work and share second authorship.

*Frontiers in Medicine* . doi : 10.3389/fmed.2021.755463 [PDF](#)

(ScimagoJR = Q1; IF2021 = **5.06** )

Earlier MS version preprinted and publicly available at [medRxiv](#)

- Grabiele M, Aguilera PM, Ducasse DA, **Debat HJ** (2021) Molecular characterization of the 5S rDNA non-transcribed spacer and reconstruction of phylogenetic relationships in Capsicum. *Rodriguez* , 72: e02062019. 2021. doi: 10.1590/2175-7860202172071 [PDF](#)

(ScimagoJR = Q2; IF2020 = **1.21** )

- Aguilera PM\*, **Debat HJ**\*, Seijo JG, Grabiele M (2021) A reference chromosomal map of the hot chili pepper Capsicum pubescens cv. "locoto" (Solanaceae). *Rodriguez* , 72: e01002020. 2021. doi : 10.1590/2175-7860202172062 [PDF](#) \* These authors contributed equally to this work .

(ScimagoJR = Q2; IF2020 = **1.21** )

- Torres C, **Debat HJ** , Viegas M (2021) Biological characteristics of SARS-CoV-2 variants of epidemiological interest and their impact on vaccine efficacy and effectiveness. *SciELO Preprints* . doi: 10.1590/SciELOPreprints.2886 [PDF](#)

## **2020**

- Bejerman N, **Debat HJ**, Dietzgen RG (2020) Review: The Plant Negative-Sense RNA Virosphere: Virus Discovery Through New Eyes . *Frontiers in Microbiology* , 11, 588427. doi: 10.3389/fmicb.2020.588427 [PDF](#)

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*The code for PanLingua is available from GitHub*  
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- **Argentine Bioeconomy Symposium 2015 NEA Region. May 6 and 7, 2015. Posadas, Misiones .**
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- **Debat HJ** , Babini, D. “Plan S in Latin America: Primum non nocere”

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- Cabrera Mederos D, Portal O, Acuña LE, Badaracco A4, Rodríguez E, Nickel A, Sáez S, Nome C, **Debat HJ** , Torres C, et al “Viral diseases in Andean and tropical fruit trees in Argentina”

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F, Torres C, Viegas M “Evolution of SARS-CoV-2 in Northwestern Argentina during the first and second waves of COVID-19”

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- Castro G, Sicilia P, Fernández F, Bolzón ML, **Debat HJ** , Marquez N, Mojsiejczuk L, Consorcio Proyecto PAIS, López L, Gabriela Barbás MG, Torres C, Viegas M, Pisano MB, Ré V “ Molecular [surveillance](#) of SARS-CoV -2 in the province of Córdoba: monitoring of variants ”

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- Zambrana R, Fernández F, Culasso A, Marquez N, **Debat HJ** , Salmeron M, Zamora AM, Ruiz G, Costas D, Alabarse G, Charre M, Fridman A, Mamani C, Vaca F, Raskovsky V, Lavaque E, Lesser V , Cajal P, Agüero F, Torres C, Viegas M “ [Evolution](#) of SARS-CoV-2 Gamma variant during the second wave of the COVID-19 pandemic in Argentina”

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- **26th International Workshop on Virus Evolution and Molecular Epidemiology (VEME2022) , Panama, August 21-26, 2022 .**
  - Torres C, Zambrana R, Fernández F, Culasso A, Marquez N, **Debat HJ** , Salmeron M, Zamora AM, Ruiz G, Costas D, Alabarse G, Charre M, Fridman A, Mamani C, Vaca F, Raskovsky V, Lavaque E , Lesser V, Cajal P, Agüero F , , Viegas M “ Omicron Waves in Argentina: Dynamics of SARS-CoV-2 Lineages BA.1, BA.2 and the emerging BA.4/BA.5”

#### GENOMICS OF SARS -COV-2 IN ARGENTINA: PAIS PROJECT

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- During 2020-2022 I participated in the Argentine consortium "PAIS" oriented to analyze the evolutionary trajectory of the **SARS-CoV-2 virus circulating in Argentina**, coordinated by Mariana Viegas (HNRG), and financed through the FONARSEC IP COVID-19 No. 247 subsidy, by the National Agency for the Promotion of Research, Technological Development and Innovation of the Ministry of Science, Technology and Innovation. My participation involved the participation in the [sequencing node](#) of the province of Córdoba with MinION Oxford Nanopore technology and the coordination of the Córdoba node of [molecular evolution](#).
  - More information in:  
<http://pais.qb.fcen.uba.ar/>  
Project available at:  
<http://pais.qb.fcen.uba.ar/project.php>

#### YERBA MATE GENOME : PRO.MATE.AR PROJECT

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- During the 2014-2016 period, [I participated](#) in a country [consortium oriented to the generation and implementation of the yerba mate genome sequencing project](#), called Pro.Mate.Ar. Coordinated by Dardo Martí (UNaM) and financed by the Secretariat of University Policies under the National Ministry of Education and the National Ministry of Science, Technology and Productive Innovation, its general objective was the generation in Argentina of a genome *draft* of *Ilex paraguariensis*

based on sequencing, assembly and genomic annotation. My role included the writing of the project idea, the collaborative design of the sequencing strategy, the selection of the material to be sequenced, the purification of nucleic acids, and the coordination of the transcriptomics node.

- More information at: <http://promatear.biargentina.com.ar/>  
Project available at:  
[http://promatear.biargentina.com.ar/images/Proyecto\\_ProMateAr\\_07-10-2015.pdf](http://promatear.biargentina.com.ar/images/Proyecto_ProMateAr_07-10-2015.pdf)

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- **BOOK: Diagnosis and guidelines for an Open Science policy in Argentina** . Advisory Committee on Open and Citizen Science. 11-2022. Ministry of Science, Technology and Innovation of Argentina. 101 pages. Online version:  
[https://back.argentina.gob.ar/sites/default/files/2023/01/documento\\_final\\_comite\\_cayc\\_-\\_dic\\_22.pdf](https://back.argentina.gob.ar/sites/default/files/2023/01/documento_final_comite_cayc_-_dic_22.pdf) My English translation is also available at: [https://back.argentina.gob.ar/sites/default/files/2023/01/cac\\_final\\_document\\_-\\_english\\_version.pdf](https://back.argentina.gob.ar/sites/default/files/2023/01/cac_final_document_-_english_version.pdf)
- **Argentine production in open access and APC payments** . English translation of the Spanish original by [Cuartas, Beigel](#) et al. 11-2022. National Council for Scientific and Technical Research [CONICET]. 72 pages. [PDF](#)
- Report No. 32: **Active surveillance of variants of SARS-CoV-2 in the CABA, provinces of Buenos Aires, Chaco, Córdoba, Corrientes, Jujuy, La Pampa, Mendoza, Misiones, Neuquén, Salta, Santa Fe and Tierra del Fuego**. Update 07-01-2022 . Inter-institutional consortium for genome sequencing and genomic studies of SARS-CoV-2 (PAIS Project).  
<http://pais.qb.fcen.uba.ar/files/reportes/pais-reporte32.pdf>
- Report No. 31: **(Partial report) Active surveillance of SARS-CoV-2 variants of the CABA. Genomic analysis of cases of emerging**

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- **Report No. 30: Active surveillance of variants of SARS-CoV-2 in the CABA, provinces of Buenos Aires, Corrientes, Chaco, Jujuy, Mendoza, Misiones, Neuquén, Santa Cruz, Santa Fe and Tierra del Fuego .** Update to 02/24/2022. Inter-institutional consortium for genome sequencing and genomic studies of SARS-CoV-2 (PAIS Project). <http://pais.qb.fcen.uba.ar/files/reportes/pais-reporte30.pdf>
  
- **Report No. 29: Active surveillance of variants of SARS-CoV-2 in the CABA, provinces of Buenos Aires, Chaco, Neuquén, Santa Fe and Tierra del Fuego.** Update to 01/05/2022. Inter-institutional consortium for genome sequencing and genomic studies of SARS-CoV-2 (PAIS Project). <http://pais.qb.fcen.uba.ar/files/reportes/pais-reporte29.pdf>
  
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- **Omicron: new variant of SARS CoV-2 concern .** I discussed HJ. Scientific News. FABA Informs Magazine. Year XLVII, No 590, pages 10-11, November 2021.  
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- **Debat HJ (2021) Slides : Redefining Research and Science Communication in the face of the COVID-19 Pandemic .** Zenodo. <https://doi.org/10.5281/zenodo.5347609>
  
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- Report No. 21 – **Province of Santa Fe** – May 13, 2021. Inter-institutional consortium for genome sequencing and genomic studies of SARS-CoV-2 (PAIS Project). <http://pais.qb.fcen.uba.ar/files/reportes/pais-reporte21.pdf>
  
- Report No. 20: **Surveillance of variants of SARS-CoV-2 in the CABA, provinces of Buenos Aires, Córdoba, Entre Ríos, Mendoza, Neuquén, Río Negro, San Luis and Santa Fe** . Update to 05/07/2021. Inter-institutional consortium for genome sequencing and genomic studies of SARS-CoV-2 (PAIS Project). <http://pais.qb.fcen.uba.ar/files/reportes/pais-reporte20.pdf>
  
- Report No. 19: **Surveillance of variants of SARS-CoV-2 in the CABA, provinces of Buenos Aires, Santa Fe, Córdoba and Neuquén**. Update to 04/12/2021. Inter-institutional consortium for genome sequencing and genomic studies of SARS-CoV-2 (PAIS Project). <http://pais.qb.fcen.uba.ar/files/reportes/pais-reporte19.pdf>
  
- Torres C, **Debat HJ** , Viegas M (2021) **Emerging variants worldwide** : Updated review on SARS-CoV-2 variants and mutations found worldwide to date. [http://pais.qb.fcen.uba.ar/files/reviews/variantes\\_y\\_mutaciones\\_del\\_sars-cov-2\\_24-03-2021.pdf](http://pais.qb.fcen.uba.ar/files/reviews/variantes_y_mutaciones_del_sars-cov-2_24-03-2021.pdf)

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- Report N°17: **Genomic characterization of samples from the province of Córdoba between April 2020 and January 2021** . Update as of 3/19/2021. Inter-institutional consortium for genome sequencing and genomic studies of SARS-CoV-2 (PAIS Project).  
[https://www.argentina.gob.ar/sites/default/files/reporte\\_ndeg17-proyecto\\_pais-cordoba-19-03-2021.pdf](https://www.argentina.gob.ar/sites/default/files/reporte_ndeg17-proyecto_pais-cordoba-19-03-2021.pdf)
- **Genomic Epidemiology - Viral variants: a natural process of evolution** . Pertierra AM, **Debat HJ** . Scientific News. FABA Informs Magazine. Year XLVII, No 581: pages 20-22, February 2021.  
<http://www.fabainforma.org.ar/versionesanteriores/FABA%20581.pdf>
- Report No. 14: **Active surveillance of variants of SARS-CoV-2 in the Province of Córdoba** . Update as of 8/2/2021. Inter-institutional consortium for genome sequencing and genomic studies of SARS-CoV-2 (PAIS Project). <http://pais.qb.fcen.uba.ar/files/reportes/pais-reporte14.pdf>
- **Debat HJ** (2021) A different pandemic begins. [Opinion](#) Column . **Newspaper The Voice of the Interior** . 9-2-2021.  
<https://www.lavoz.com.ar/ciudadanos/empieza-una-pandemia-diferente>
- Report N°12 - Active surveillance of variants of SARS-CoV-2 in Argentina. **Case report with the presence of the variant VOC 202012/01 (United Kingdom)** (lineage B.1.1.7). January 15, 2021. Inter-institutional consortium for genome sequencing and genomic

studies of SARS-CoV-2 (PAIS Project).

<http://pais.qb.fcen.uba.ar/files/reportes/pais-reporte12.pdf>

- Report No. 11: **Active surveillance of variants of SARS-CoV-2 in the AMBA** . Update as of January 12, 2021. Inter-institutional consortium for genome sequencing and genomic studies of SARS-CoV-2 (PAIS Project). <http://pais.qb.fcen.uba.ar/files/reportes/pais-reporte11.pdf>
- Report No. 10: **Active surveillance of variants of SARS-COV-2 in CABA, GBA and Santa Fe** . January 3, 2021. Inter-institutional consortium for genome sequencing and genomic studies of SARS-CoV-2 (PAIS Project). <http://pais.qb.fcen.uba.ar/files/reportes/pais-reporte10.pdf>
- Report No. 9: **Active surveillance of variants of SARS-COV-2 in the city of Buenos Aires** . December 28, 2020. Inter-institutional consortium for genome sequencing and genomic studies of SARS-CoV-2 (PAIS Project). [https://www.argentina.gob.ar/sites/default/files/reporte\\_ndeg9\\_vigilancia\\_activa\\_de\\_variantes\\_de\\_sars-cov2\\_actualizacion\\_26-12-20.pdf](https://www.argentina.gob.ar/sites/default/files/reporte_ndeg9_vigilancia_activa_de_variantes_de_sars-cov2_actualizacion_26-12-20.pdf)
- UK report on the **VOC 202012/01 variant of SARS-CoV-2 detected in the United Kingdom** – December 22, 2020. Inter-institutional consortium for genome sequencing and genomic studies of SARS-CoV-2 (PAIS Project). <http://pais.qb.fcen.uba.ar/files/reportes/pais-reporteUK.pdf>
- **Debat HJ, Abdill R ( 2020 ) PanLingua: a tool for the democratization of knowledge available in preprints**  
<http://ria.inta.gob.ar/contenido/panlingua-una-herramienta-para-la-democratizacion-del-conocimiento-available-in-preprints?!=en>  
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- Report nº4 – **Province of Córdoba** –August 19, **2020** Inter-institutional consortium for genome sequencing and genomic studies of SARS-CoV-2 (PAIS Project).  
[https://www.argentina.gob.ar/sites/default/files/reporte\\_ndeg4-proyecto\\_pais-provincia\\_de\\_cordoba-.pdf](https://www.argentina.gob.ar/sites/default/files/reporte_ndeg4-proyecto_pais-provincia_de_cordoba-.pdf)
  
- Guidelines Toward Inclusive Practices in Academics: inclusive Hiring, Mentoring, Reference letters, Manuscript review and Grant review. **2020** .  
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- Lab Manual Template. A resource for anybody starting a lab and generated by eLife Ambassadors, **2020** . [Spanish](#) translation . [original](#) version .
  
- **Debat HJ**, Abdill R ( **2020** ) Search for preprints in your native language with PanLingua. ASAP Bio. <https://asapbio.org/panlingua>
  
- Penfold, Naomi, Taraborelli, Dario, Bloom, Theodora, Kenall, Amye, & **Debat, Humberto** . (2019). **Who will influence the success of preprints in biology and to what end?** . Zenodo.  
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- **Debat, Humberto** , & Babini, Dominique. (2019). “ **Plan S in Latin America: Primum non nocere** ”. Zenodo.  
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- “ **Excellence in research is a neocolonial agenda (and what can be done about it)** ”. 9-2019 **Debat HJ** . Spanish translation of Cameron Neylon's [original](#) implemented through Zenodo.  
<http://doi.org/10.5281/zenodo.3443838>

- **“Sci-Hub provides access to almost all academic literature”** 9-2019 . Debat HJ. Spanish translation of the [original](#) by Himmelstein et al, and implementation through [Manubot](#) at : <https://greenelab.github.io/scihub-manuscript-es/> source code available at : <https://github.com/greenelab/scihub-manuscript-es>
  
- **“ Encouraging Open Science in Latin America ”**. Debat HJ . ecrLife. 1/22/2019. <https://ecrlife.org/encouraging-open-science-in-latin-america/>
  
- **Debat HJ** , Babini D. ( **2019** ). Plan S in Latin America: A note of caution. *Zenodo*. <https://doi.org/10.5281/zenodo.3332621> PDF
  
- Sarabipour S, **Debat H.** (2019) *Referee Report For* : Preprints and Scholarly Communication: Adoption, Practices, Drivers and Barriers [version 1; peer review: 2 approved with reservations]. *F1000Research* , **8** :971 <https://doi.org/10.5256/f1000research.21512.r50461>
  
- **Debat, HJ “ Preprints: A Revolution Redefining Scientific Publishing ”**. Journal of Agricultural Research (RIA). ISSN 1669-2314. 10/16/2018. [https://drive.google.com/file/d/1mJoJanb1RsRPd7zP5Z0GLlDa1iC9jTWE/view?usp=share\\_link](https://drive.google.com/file/d/1mJoJanb1RsRPd7zP5Z0GLlDa1iC9jTWE/view?usp=share_link)
  
- **“Vienna Manifesto on Digital Humanism”** 7/25/2019. Spanish translation of the original, available online at: [http://www.informatik.tuwien.ac.at/dighum/wp-content/uploads/2019/07/Vienna Manifesto on Digital Humanism EN.pdf](http://www.informatik.tuwien.ac.at/dighum/wp-content/uploads/2019/07/Vienna_Manifesto_on_Digital_Humanism_EN.pdf)
  
- An Anecdote from a Symbiote (Voight B & **Debat HJ** ) 8-2017 *Medium* <https://medium.com/@bvoight28/an-anecdote-from-a-symbiote-ce12d5eb09ec>
  
- **" Resistance to virus diseases in plants by RNAi "** - Practical work guide - 4th. International Course "Characterization, Diagnosis, Epidemiology of Viral Diseases and Mollicutes in Plants". INTA-JICA. October 2009.

## HUMAN RESOURCES TRAINING

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- Co-director of the Scholarship for Initiation to Research of the Executive Committee for Development and Technological Innovation (CEDIT) of the Bachelor in Genetics Diego Fernandez entitled "Active transposable elements in yerba mate (*Ilex paraguariensis* A. St. Hil.): identification , classification and structural characterization" National University of Misiones, 2015.
- Co-director of the Thesis of the student Maria Cecilia Roude – to access the title of Bachelor of Genetics, entitled "Bioinformatic characterization of genes associated with sexual reproduction in yerba mate (*Ilex paraguariensis* A. St.-Hil.)". National University of Missions, 2015.
- Training of the thesis student Dr. Mauro Grabiele (supervised by Dr. Moscone) Theme: Molecular biology applied to chili pepper cytogenetic studies. 2006-2010.
- Training of the thesis student Bioq. Pablo Cuneo (directed by Dr. Lopez Lambertini) Topic: Expression of viral antigens using the *Brevibacillus brevis* platform . 2011.

## DATA MANAGEMENT – PUBLICATIONS IN GENBANK/DDBJ/EMBL

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- **GenBank Accession # BK062646-BK062750** 33 Novel ophiiovirus genome sequences associated with plants. **Debat H** , Garcia ML, Bejerman, N.
- **GISAID Accession ID EPI\_ISL\_792530.. EPI\_ISL\_13604716** over 1,100 complete genomes of SARS-CoV-2 sequenced in Argentina by the PAIS project from hCoV-19/Argentina/PAIS-G0002/2022 to hCoV-19/Argentina/PAIS-G1178/2022. Fernandez, FD; Marquez, N.; **Debat, HJ** .; m; Re, V.; Pisano, MB; Castro, G.; Barbas, G.
- **GenBank Accession # BK062902-BK062903** Novel flavi-live virus genome sequences associated with *Sonchus asper* and *Cooptis teeta*. **DebatH** , Bejerman, N.
- **GenBank Accession # MN265368** Papaya virus X isolate Yuto genome sequence. Cabrera Medeiro, D., **Debat, HJ** , Giolitti F., et al.

- **NCBI-Bioproject Accession # PRJNA886645, Run SRR21786404, Biosample SAMN31136757** RNA Sequencing of *Carica papaya* leaf sample for virus discovery. Cabrera Medeiros, D., **Debat, HJ**, Giolitti F., et al.
- **GenBank Accession # BK061365-BK061474** Miscellaneous animal mitovirus nucleotide sequences. Jacquat, AG, **Debat, HJ**, Dambolena, JS et al.
- **GenBank Accession # BK061731-BK061826** 45 novel plant varicosavirus genome sequences. Bejerman, N.; Dietzgen, R. G.; **debate, h.**
- **GenBank Accession # BK061229-BK061231** novel mouse olivacean morbilliviruses. **debate H**
- **GenBank Accession # ON160022-ON160035** 9 novel red mite viruses. Ribeiro J, **Debat H**, Perner J.
- **GenBank Accession # BK061147- BK061147** novel caulimovirids and geminivirids genome sequences associated with *Welwitschia mirabilis*. **Debat H**, Bejerman, N.
- **GenBank Accession # BK014297-014366 and BK059208-BK059209** 27 novel plant rhabdoviruses genome sequences. Bejerman, N.; Dietzgen, R. G.; **Debat, H.**
- **GenBank Accession # MW328720-MW328760** . 31 novel plant tymovirid genome sequences. Bejerman, N., **Debat, H.**
- **Project Data for : Empowering Early Career Researchers to Improve Science.** Kent BA, Holman C, Amoako E, ... **Debat HJ**, et al. OSF DOI [10.17605/OSF.IO/AD57E](https://doi.org/10.17605/OSF.IO/AD57E) 2021-06-28
- **GenBank Accession # MK650892-MK651009, JF773766 MK638982-MK638984** 5S ribosomal RNA nontranscribed spacer of diverse *Capsicum* species. Grabielle,M., Aguilera,PM, Ducasse,DA and **Debat,HJ**
- **Data for:** Molecular characterization of the 5S rDNA non-transcribed spacer and reconstruction of phylogenetic relationships in *Capsicum*. Mendeley Data. Published: 10 September 2020. Version 1 | DOI: [10.17632/xcrmb7m7y8.1](https://doi.org/10.17632/xcrmb7m7y8.1)
- **GenBank Accession # MT506024-MT506025** *Fusarium verticillioides* mitovirus 1, *Fusarium andiyazi* mitovirus 1. Jacquat, AG, **Debat, HJ**, Dambolena, JS
- **Data for :** Predicted secondary structures (2-D representation of this self-folding) of the terminal untranslated regions (UTR) of FvMV1 and FaMV1-162. Jacquat, AG., Theumer, MG., Cañizares, MC., **Debat, HJ** ., Iglesias, J, Garcia Pedrajas, MD., & Dambolena, JS. **Zenodo** . <https://doi.org/10.5281/zenodo.3990533>

- **GenBank Accession # MT450471** Grapevine pinot gris virus . **Debat, HJ** ., Zavallo, D., Gomez-Talquenca, S., Asurmendi, S.
- **NCBI-Bioproject Accession # [PRJNA378805](#)** Sequencing and de novo assembly of the *Photinus pyralis* genome. Fallon, TR, Lower, SE, Chang, CH, Bessho-Uehara, M., Martin, GJ, Bewick, AJ, Behringer, M., Debat, H. J., Wong, I., , ... Weng , JK
- **NCBI-Bioproject Accession # [PRJDB6460](#)** Sequencing and de novo assembly of the Japanese Firefly *Aquatica lateralis* genome. Fallon, TR, Lower, SE, Chang, CH, Bessho-Uehara, M., Martin, GJ, Bewick, AJ, Behringer, M., Debat, H. J., Wong, I., , ... Weng , JK
- **NCBI-Bioproject Accession # [PRJNA418169](#)** Sequencing and de novo assembly of *Ignelater luminosus* isolate:TRF0915ILg1 genome. Fallon, TR, Lower, SE, Chang, CH, Bessho-Uehara, M., Martin, GJ, Bewick, AJ, Behringer, M., Debat, H. J., Wong, I., , ... Weng , JK
- **GenBank Accession # MT075773 - MT075773** . Cotton mosaic virus. Delfosse,V, **Debat,HJ** ., Zavallo,D., Asurmendi,S , Gomez-Talquenca,S, Distefano,A.
- **Gene Expression Omnibus (GEO-NCBI) Dataset Accession # GSE108964** Microarray data for Transcriptome analysis of mycorrhizal and non-mycorrhizal soybean root associated with *F. virguliforme* inoculation. Marquez, N., Giachero, ML, Gallou, A., **Debat, HJ** , Declerck, S. and Ducasse, DA
- **GenBank Accession # MN781667**. Yerba mate virus A. Bejerman, N, **Debat HJ** .
- **GenBank Accession # MK292286 - MK292289** . *Medicago sativa* alphapartitivirus 1 and 2 . Bejerman, N, **Debat HJ** .
- **Data for** : Differential mRNA Accumulation upon Early *Arabidopsis thaliana* Infection with ORMV and TMV-Cg Is Associated with Distinct Endogenous Small RNAs Level. Zavallo, D.; **Debat, H** ; Conti, G.; Manacorda, C; Rodriguez, MC; Asurmendi, S. **Figshare Collection** . <https://doi.org/10.1371/journal.pone.0134719>  
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- **GenBank Accession # MK649741** . Bean yellow mosaic virus isolate ARGbb. Rodriguez Pardina, P., Nome, C., Reyna, P., Arguello Caro, E., Luque, A. and **Debat, HJ** .
- **Data for** : An insight into the sialome, mialome and virome of the horn fly, *Haematobia irritans*. Ribeiro, J.; **Debat, Humberto** ; Boiani, M.; Ures, X.; Rocha, S.; Breijo, M. **Figshare Collection** . <https://doi.org/10.6084/m9.figshare.c.4593242.v1>



- **GenBank Accession # MK643150-MK643151** *Haematobia irritans* Nora virus and *Haematobia irritans* densovirus. **Debate, HJ . and Ribeiro, JMC**
- **GenBank Accession # MK575527-MK575528.** Grapevine red blotch virus. **Debat, HJ ., Zavallo, D., Gomez-Talquenca, S., Asurmendi, S.**
- **GenBank Accession # MH248020.** Grapevine virus L. **Debat,HJ ., Zavallo,D., Gomez-Talquenca,S., Asurmendi,S.**
- **Data for : An insight into the sialotranscriptome and virome of Amazonian anophelines.** Scarpassa, V; Debat, H; Alencar, R.; Saraiva, J; Bald, E.; Arcà, B; et al. **Figureshare Collection .**  
<https://doi.org/10.6084/m9.figshare.c.4422626.v1>
- **GenBank Accession # MH614261.** bird's-foot trefoil enamovirus 1. **Debat HJ , Bejerman, N.**
- **GenBank Accession # MH614262.** bird's-foot trefoil nucleorhabdovirus. **Debat HJ , Bejerman, N.**
- **GenBank Accession # MG686618.** *Colobanthus quitensis* associated barnavirus 1. Nibert,ML, Manny,AR, **Debat,HJ ., Firth,AE, Bertini,L., Caruso,C.**
- **GenBank Accession # MH700450.** Tibetan frog hepatitis B virus. **Debat HJ , Ng TFF.**
- **GenBank Accession # MH580899-MH580900.** Grapevine virus E. **Debat,HJ , Zavallo,D., Gomez-Talquenca,S., Asurmendi,S.**
- **GenBank Accession # MH822965.** *Anopheles marajoara* virus. **Debate, HJ . and Ribeiro, JMC**
- **GenBank Accession # MH822963-MH822964.** *Anopheles darlingi* virus. **Debate, HJ . and Ribeiro, JMC**
- **GenBank Accession # MH822966-MH822968.** *Anopheles triannulatus* orthophasmavirus RNA1-3. **Debate, HJ . and Ribeiro, JMC**
- **GenBank Accession # MG721540.** *Beta vulgaris* mitovirus 1. Nibert,ML, Vong,M., Fugate,KK and **Debat,HJ .**
- **GenBank Accession # MH634502.** *Culex pipiens* associated Tunisia virus. **Debate, HJ . and Ribeiro, JMC**
- **GenBank Accession # MG972985-MG972994.** *Photinus pyralis* orthomyxo-like virus 1/2. Fallon, TR, **Debat HJ .**
- **GenBank Accession # MF348195-MF348204.** *Nephila clavipes* viruses. **I discussed HJ.**
- **GenBank Accession # MG878985.** *Aplysia californica* nest-like virus. **I discussed HJ.**

- **GenBank Accession # MF197379- MF197380.** Rubber dandelion latent virus 1/2. **Debat,HJ** and Cornish,K.
- **GenBank Accession # MF325033.** Neurachne minor latent virus. **debate, H. and Ludwig, M.**
- **NCBI-TSA Accession # GFHV0000000.2** Transcriptome Shotgun Assembly Sequence of first full transcriptome assembly of the tree crop yerba mate (*Ilex paraguariensis*) . Aguilera PM, **Debat HJ** , Grabiele M.
- **GenBank Accession # KJ634409.1** . Yerba mate endornavirus strain INTA, complete genome . **Debat HJ** , Grabiele M, Martí D, Ducasse D. 2014.
- **Data for : Exploring the Genes of Yerba Mate (*Ilex paraguariensis* A. St.-Hil.) by NGS and De Novo Transcriptome Assembly.** **Debat, H** ; Grabiele, M; Aguilera, P; E. Bubilillo, R; B. Otegui, M; A. Ducasse, D; et al. **Figureshare Collection** .  
<https://doi.org/10.1371/journal.pone.0109835> \_
- **NCBI-SRA Accession # SRX603451** . Yerba mate (*Ilex paraguariensis* St. Hil.) NGS Transcriptome RNAseq . **Debat HJ** , Grabiele M, Martí, D. 2014.
- **NCBI-Bioproject PRJNA283608** . sRNAs NGS of *Arabidopsis thaliana* infection with ORMV and TMV-Cg. Zavallo D, **Debat HJ** , Conti G, Manacorda CA, Rodriguez MC, Asurmendi S
- **NCBI-TSA Accession # GFHV0000000.1** Transcriptome Shotgun Assembly 18S-25S ribosomal sequence of the crop tree yerba mate. Aguilera PM, **Debat HJ** , Grabiele M.
- **GenBank Accession # FJ460246 and FJ460247.** Intergenic spacer of 25S-18S rDNA in the cultivated chili pepper *Capsicum pubescens* (Solanaceae) . Grabiele M, **Debat HJ** , Moscone EA, Ducasse DA. 2008.
- **GenBank Accession # JF766703.1 - JF766707** . *Capsicum pubescens* retrotransposons, complete sequences. Grabiele M, **Debat HJ** , Moscone EA, Ducasse DA. 2011.
- **GenBank Accession # JF773766.1** *Capsicum friburgense* SINE Cfri, complete sequence. Grabiele M, **Debat HJ** , Moscone EA, Ducasse DA. 2011.

#### ATTENDANCE AT CONGRESSES AND CONFERENCES

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- **Genetics Conference: Implications of Genetic Technology** . Key Speaker: Dr. Roger N. Beachy. **Goshen, IN. USA** June 3, 2000 .

- **I International Conference on Human Genome and Bioethics** . Organized by the Catholic University of Córdoba. Cordoba, October 2001.
- **IX Buenos Aires Plant Biology Lectures**, Buenos Aires, October 23-25, 2006 .
- **XI National Congress of Virology** , Buenos Aires, September 26 and 29, 2011.
- **fourteenth Buenos Aires Plant Biology Lectures**, Buenos Aires, October 24-26, 2011 .
- Conference on "**Perception and transmission of signals in plants**" REDBIO- Argentina, Faculty of Pharmacy and Biochemistry (UBA), on August 8, 2012.
- **XV Buenos Aires Plant Biology Lectures** , October 22nd to October 24th 2012 at the National Library of Buenos Aires, City of Buenos Aires.
- **3rd National and International Congress on Agrobiotechnology, Intellectual Property and Public Policies** . October 23-25, 2012, National University of Rosario (UNR), Rosario Argentina.
- Seminar on **Patents and search for Technological Information** . November 6 and 7, 2012. Institute of Biotechnological Research "Dr. Rodolfo A. Ugalde", National University of San Martín.
- Symposium **Bioeconomy Argentina 2015** Central Region. June 25 and 26, 2015. Rosario Stock Exchange, Rosario, Santa Fe.
- World Computer Congress. The 23rd <sup>IFIP</sup> World Computer Congress. October 4-7 2015. Daejeon, South Korea.
- Regional Integration 4.0 Conference, Buenos Aires, October 5, 2016.
- National Participatory Research Workshops TECHNOLOGY-WORK 2050, Buenos Aires, October 4, 2016.
- Conference Argentina Look to the Future, Singularity University, Córdoba, November 29, 2016.
- Start Me Up AGTECH, UVITE Foundation, Córdoba, October 10, 2018.
- AgTech Immersion Sessions - Silicon Valley Forum, Rosario, Santa Fe, November 6-7, 2018.
- INAP Conference Cycle: Big data: Cases and challenges for public policy, Walter Sosa Escudero, June 26, 2020, virtual.

- **PID n° 197/05 of the SECYT (National University of Córdoba)** , “Genomic characterization of the germplasm of some South American Solanaceae of economic interest, with emphasis on chili peppers ( *Capsicum* )”, director: Dr. Eduardo A. Moscone. 2005 .
- **CONICET PIP n° 6188**, “Genomic characterization of chili pepper germplasm ( *Capsicum* – Solanaceae) with emphasis on cultivated species”, director: Dr. Eduardo A. Moscone, co-director: Dra. Gloria E. Barboza. 2005-2006 . \$72,000.
- **PID n° 162/06 of the SECYT (National University of Córdoba)**, “Genomic characterization of the germplasm of some South American Solanaceae of economic interest, with emphasis on chili peppers ( *Capsicum* )”, director: Dr. Eduardo A. Moscone. 2006 .
- **RBF 12226, from IAEA-UNO**, “Genomic characterization of the germplasm in some South American Solanaceae of economic interest by in situ hybridization, with emphasis in chili peppers”, director: Dr. Eduardo A. Moscone. 2005-2008 . US\$48,000.
- **PICT n° 20196 FONCYT-ANPCYT** , “Genomic characterization of chili pepper germplasm (Capsicum, Solanaceae) with special reference to cultivated species”, director: Dr. EA Moscone. 2006-2009. \$278,760.
- **PID n° 69/08 SECYT (UNC)** , “Genomic characterization of the germplasm of some South American Solanaceae of economic interest, with emphasis on chili peppers (Capsicum)”, director: Dr. EA Moscone. 2008-2009.
- **PICT 2010-1297 FONCYT**, “Chromosome mapping and cytogenomic studies in Capsicum, Zephyranthes and Paspalum of the NEA”, director: Dr. Julio Daviña. \$268,800.
- **AEPV-214022 (INTA)** “Characterization of plant pathogen interactions and resistance mechanisms”, Coordinator: Masuelli, Ricardo Williams. \$510,000.
- **PE PNHFA-061302** “Obtaining lettuce cultivars resistant to biotic and abiotic factors.”, Coordinator: Lopez Bilbao - Marisa Gisela. \$219,000.
- **PNPV-PE1135024 (INTA)** National Plant Protection Program, Coordinator: Masuelli, Ricardo Williams. \$300,000.
- **PNHFA1106073 (INTA)** “Light Vegetables” Lettuce Module Coordinator: Lopez Bilbao Marisa Gisela. \$300,000.
- **PNBIO-PE1131022 (INTA)** Functional genomics and systems biology, Coordinator: Sebastian Asurmendi. \$700,000.

- **PNBIO-PE1131044 (INTA)** Characterization of genetic diversity . Coordinator: Daniela Tosto. \$400,000.
- **FO.AR** Training on Research Collaboration on Use of RNAi or related techniques on plant biotechnology. Coordinator: Sebastian Asurmendi.
- **PRASY n° 58/14-INYM 2014** Early detection of gender in yerba mate. Coordinator: Dardo A. Martí. \$120,000.
- **PIP-CONICET 0198** Resolution 173311. Determination of sex in Yerba Mate (*Ilex paraguariensis*) as a strategy for early detection of gender in seedlings-Stage I". 2014-2017. Coordinator: Dardo A. Martí. \$150,000.
- **PICT-2017-1321-ANPCYT** . Study of biotic interactions between native tree species and rhizosphere microorganisms: Microbial diversity. Coordinator: Laura Cavallero. \$473,000.
- **PID: 2018-0021 -ANPCYT** . Development of a wide-spectrum grapevine virus diagnosis system using NGS to be used in a virus-free grapevine plant production platform . \$ 6,190,000. \* Member of the responsible group \*. Coordinator: Sebastian Asurmendi.
- **FONARSEC IP COVID-19 No. 247** . Genomics of the SARS-CoV-2 virus that produces COVID-19 in Argentina. Comprehensive analysis of genetic, clinical and evolutionary aspects of autochthonous strains and their impact on diagnosis and local and global epidemiology. US\$100,000. Coordinator: Mariana Viegas.
- **PICT-2019-01971-ANPCYT.** Competition of *Gyropsylla spgazziniana* (Lizer & Trelles) in the transmission of viruses in yerba mate and evaluation of RNA interference as a promising technology for its control. \$2,165,625. Coordinator: Claudia Nome.
- **PICT-2019-03300- ANPCYT.** Mycovirus: An innovative natural tool to reduce the impact of *Fusarium verticillioides* and its mycotoxins in corn. \$2,165,625. Coordinator: José Dambolena.
- **PIP-CONICET -11220210100624CO-2022.** Characterization and evaluation of the virome of fungi and arthropods of economic importance in peanut cultivation as a promising biotechnological tool for pest control. \* Member of the responsible group \*. Coordinator: Nicolás Bejerman. \$1,600,000.

#### COURSES ATTENDED

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- Summer Course: “*Molecular Genetics*” taught by PhD Michelle Murphy Whaley at the **University of Notre Dame, IN. USA.** July 2000. Visiting student.

- Summer Course: ***“Philosophy of Science”*** taught by PhD Peter Adamson at the **University of Notre Dame, IN. USA.** July 2000. Visiting student.
- ***“In situ nucleic acid hybridization methods”*** , Faculty of Exact, Physical and Natural Sciences, **National University of Córdoba, Argentina** , November 2009, 45 hours long, dictated by Dr. Eduardo A. Moscone . Rating 10.
- ***“Epigenetic Regulation of the Plant Genome”*** Federal University of **Rio de Janeiro** , from October 18 to 29, 2010, 150 hours long, dictated by Dr. Paulo Cavalcanti Gomes Ferreira. Rating 10.
- **"Training in Ceremonial, Oratory and Organization of Events"** Faculty of Law and Cs. Ss., Postgraduate Secretariat June 1 to July 6, 2010.
- **Molecular Phytopathology** . Coordinator: Dr. H. Esteban Hopp. July 10 to August 11, 2012, 105 hours long, Faculty of Exact and Natural Sciences, **University of Buenos Aires** . Rating 10.
- **Small RNA in Animals and Plants** , November 26-30, 2012, 60 hours long. Institute of Biotechnology of Rosario **Institute of Molecular and Cellular Biology of Rosario** , Organized and Coordinated: Dr. Javier Palatnik. Rating 10.
- **Epistemology** , June 10 to 14, 2013, Faculty of Exact, Physical and Natural Sciences, National University of Córdoba. Rating 9.
- **Experimental Design**, June 24 to 28, 2013, Faculty of Exact, Physical and Natural Sciences, National University of Córdoba. Rating 8.
- **Statistics**, August 5 to 9, 2013, Faculty of Exact, Physical and Natural Sciences, National University of Córdoba. Rating 9.
- **Technology Innovation and Global Strategy** , August-November 2015, 8 pm. Graduate School of International Studies, Ajou University, South Korea. Rating 10.
- **Organization Structure & Human Resource Management for Innovation** , August-November 2015, 8 pm. Graduate School of International Studies, Ajou University, South Korea. Rating 10.
- **Innovation and Competitive Strategy of in Service Industry** , August-November 2015, 8 pm. Graduate School of International Studies, Ajou University, South Korea. Rating 10.
- **Supply Chain Management** , August-November 2015, 8 p.m. Graduate School of International Studies, Ajou University, South Korea. Rating 10.
- **Trends in Nanotechnology** , August-November 2015, 30 pm. Graduate School of International Studies, Ajou University, South Korea. Rating 10.

- **Future Trends in Biomedical Sciences, Big Data Processing** , August-November 2015, 12:30 p.m. Graduate School of International Studies, Ajou University, South Korea. Rating 10.
- **Biotechnology** in Korea, August-November 2015, 30 pm. Graduate School of International Studies, Ajou University, South Korea. Rating 10.
- **New Drug Development** , August-November 2015, 30 hrs. Graduate School of International Studies, Ajou University, South Korea. Rating 10.
- **Focus on Peer Review** , Nature Masterclasses, Springer Nature, September 2017.
- **CABANA** Course “Advanced RNAseq and network analysis in Genomics” between November 6 and 9, 2019 at the Institute of Agricultural Biology of Mendoza, Argentina. 32 hours. Approved.
- **Viral Genomics and Bioinformatics** (Latin America and the Caribbean), Wellcome Connecting Science and COG- UK, virtual, 10–14 October 2022, 43 hrs. Approved.

#### OTHER TRAININGS CARRIED OUT

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- Training Workshop on the use of the **SCIENCE DIRECT Portal** organized by the company **Elsevier BV** . Cordoba, Argentina, November, 2006 .
- Training Workshop on the use of the electronic resource **SCOPUS** organized by the company **Elsevier BV** . Cordoba, Argentina November, 2006.
- Science Webinar Series: “ **miRNAs and Cancer**” February 20, 2008. **by the Science /AAAS Business Office**
- Science Webinar Series: “ **Noncoding RNAs: A New Paradigm for Gene Regulation**” October 22, 2008. **by the Science /AAAS Business Office**
- Science Webinar Series: “ **Protein Tagging Technologies in Cell Imaging and Analysis**” March 25, 2009 . **by the Science /AAAS Business Office.**
- Science Webinar Series: “ **DNA Target Enrichment Strategies** ” June 10, 2009. **by the Science/AAAS Business Office** .
- Science Webinar Series: “ **Advancing Cell Biology: Understanding the Cell Through New Technologies** ” September 29, 2009. **by the Science/AAAS Business Office.**

- Science Webinar Series: “ **Sequencing the Human Exome: Approaches, Methodologies, and Challenges** ” October 14, 2009. **by the Science/AAAS Business Office.**
- Science Webinar Series: “ **From Genes to Proteins: The Impact of Gene Sequence on Translation and Expression** ” October 28, 2009. **by the Science/AAAS Business Office .**
- Science Webinar Series: “ **microRNA Research Design: Strategies from the Experts** ” November 10, 2009. **by the Science/AAAS Business Office.**
- “ **Nikon Confocal Microscopy Course** ” IFFIVE, June 9 and 10, 2010.
- "Basic Biotechnology Course" Electronic Monsanto. July 2010.
- "BT Corn Course" electronic Monsanto. August 2010.
- “ **RR Corn Course**” Electronic Monsanto. September 2010.
- “**Weed Resistance Management Course**” electronic Monsanto. October 2010.
- **Workshop on functional genomics of plants** . Government Headquarters of the National University of Rosario, Santa Fe. May 16, 2017.
- **Micaela Law** : training on gender issues and violence against women, National Institute of Public Administration INAP, Secretariat of Management and Public Employment . 8 hours. Rating: 10/10. August 2019.
- **Introduction to Public Innovation** , National Institute of Public Administration INAP, Secretary of Management and Public Employment. 32 hours. Rating: 9/10. August 2018.
- **Introduction to Civic Innovation** , National Institute of Public Administration INAP, Secretary of Management and Public Employment . 20 hours. Rating: 10/10. November 2018.
- **Citizen-oriented management** , National Institute of Public Administration INAP, Secretary of Management and Public Employment. 6 hours. Rating: 10/10. September 2018.
- **Management by results** , National Institute of Public Administration INAP, Secretary of Management and Public Employment. 3 hours. Rating: 10/10. November 2018.
- **Big data** , National Institute of Public Administration INAP, Secretariat of Modernization. 5 hours. Rating: 10/10. August 2019.
- **Workshop** : Citations needed: Wikidata and the scholarly publishing ecosystem, October 15, 2019, by Megan Wacha, Edinburgh, UK.



- **Workshop** : Open scholarship and collective action: introducing the OS Framework, 15 October 2019, by Cameron Neylon, Bas Cordewener and others, Edinburgh, UK.
- **Networking and ecosystems in public management: the diversity of needs and their possible solutions** , National Institute of Public Administration INAP, Secretariat of Management and Public Employment. 6 hours. Rating: 10/10. February 2020.
- **Course** . Organized by the Assistant National Directorate for Research, Development and Planning of the National Institute of Agricultural Technology. 10 hours. June, 2020.
- **Results-oriented management competencies in public management** , National Institute of Public Administration INAP, Secretariat of Management and Public Employment. 15 hours. Rating: 10/10. September, 2020.
- **Management of organizational change** , National Institute of Public Administration INAP, Secretary of Management and Public Employment. 5 hours. Rating: 10/10. November, 2020.
- **Cardiopulmonary resuscitation (CPR) and first aid workshop** , CIAP safety and hygiene area. 4 hours. November, 2020.
- **Authorship Voices - Modern Governance. Conceptual framework and management technologies** , National Institute of Public Administration INAP, Secretariat of Management and Public Employment. 15 hours. Rating: 10/10. December, 2020.
- **Ceremonial and Protocol in Public Organizations** , National Institute of Public Administration INAP, Secretary of Management and Public Employment. 5 hours. Rating: 10/10. December, 2020.
- **Workshop: Evolution and phylogenetic analysis of SARS-CoV-2** . Faculty of Pharmacy and Biochemistry, University of Buenos Aires. 4:00 p.m. May, 2022.
- **Environment Training. Yolanda Law (27,592) (A) jun09** , National Institute of Public Administration INAP, Secretary of Management and Public Employment. 20 hours. Rating: 10/10. June, 2022.
- **Coaching to enhance leadership at INTA** . Argentine Association of Professional Ontological Coaching. 3 hours. July-August 2022.
- **NCBI Virtual Workshop** : An Introduction to Pathogen Data at NCBI. Virtual. 2 hours. August 2022.
- **Negotiation in public organizations (IN-NV-47030)** , National Institute of Public Administration INAP, Secretary of Management and Public Employment. 15 hours. Rating: 10/10. September, 2022.

## SCHOLARSHIPS AND TRAVEL FELLOWSHIP OBTAINED

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- Travel Assistance to participate in the Workshop: Notebooks Now! at **American Geophysical Union** headquarters, Washington, DC, USA, November 3-4, 2022. Awarded by the Alfred P. Sloan Foundation, all travel expenses covered (flights, lodging, transport and meals). ~ US\$3,500.
- Travel Assistance to participate in the Workshop: Preprints I/O: Strengthening the open science ecosystem by extending preprints at the **Chan Zuckerberg Biohub** , San Francisco, CA, USA, December 3-5, 2019. Awarded by the Chan Zuckerberg Initiative, all travel Expenses covered (flights, lodging, transport and meals). ~ US\$4,000.
- **CABANA** Travel Fellowship to participate in "Advanced RNAseq and network analysis in Genomics" between November 6 and 9, 2019 at the Institute of Agricultural Biology of Mendoza, Argentina. U\$S 500 plus travel expenses.
- Travel Assistance to participate in the **FORCE 2019** conference in Edinburgh, October 15-17, 2019. Granted by FORCE11 ( [www.force11.org](http://www.force11.org) ), a US based, non-profit organization. US\$2,350.
- Full Scholarship to carry out " **Specialization in Management of New Technologies in Science** " at Ajou University, Suwon, **Korea** . August -November 2015. Funded by the Chief of Cabinet of Ministers of the Argentine Nation and the Korean Ministry of Education, Science and Technology. US\$25,000.
- **SAIB 50 years** . Financial aid scholarship for selected work. November 11-14, 2014. Rosario, Argentina.
- **CABBIO** scholarship to participate in the course "*Epigenetic Regulation of the Plant Genome*" Federal University of Rio de Janeiro, from October 18 to 29, 2010.
- scholarship (Type I) from the National Council for Scientific and Technical Research ( **CONICET** ). (4/2009-1/2012).

- Student Exchange Scholarship to the USA. **Youth for Understanding** Program . Indiana, USA, 2000.

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AWARDS, OUTREACH AND DISTINCTIONS RECEIVED ( 21 )

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- **Special Mention Award**, XIII Argentine Congress of Virology – November 29-30 and December 1, 2021. Award-winning work: Torres C, Mojsiejczuk L, Acuña D, Alexay S, Amadio A, Aulicino P, Debat HJ ... PAIS **Project** , Viegas M “Surveillance of SARS-CoV-2 variants during the second wave of COVID-19 in Argentina within the framework of the PAIS Project ”
- **eLife Community Ambassador**, 2020, Early-Career Advisory Group, eLife non-profit organization.
- **ASAPBio Fellow**, 2020 , to become ASAPbio representatives at their institutions and scientific conferences.
- **eLife Community Ambassador**, 2019, Early-Career Advisory Group, eLife non-profit organization.
- **Affiliate of bioRxiv** , the preprint server for biology, since 2019, <https://www.biorxiv.org/about-biorxiv>
- **Ambassador of good practices in science**, 2018, Early-Career Advisory Group, eLife non-profit organization.
- **ASAPbio Ambassador** to promote the productive use of preprints in the life sciences, 2018, 2019.
- **Presidential Award for Exemplary Leadership** , given at the Graduate School of International Studies by Dong-Yonn Kim, President of Ajou University, Korea, 2015.
- **Special mention** , in the **VIII National Symposium of Biotechnology REDBIO Argentina 2011** , carried out in the CABA. November 2011. Awarded Work: **Debat H** , L. Lambertini P, Ducasse DA “ A transient platform for the rapid evaluation of resistance to Viruses by RNAi”
- **Special mention for scientific work in the area of Molecular Genetics** in it XXXVI Argentine Congress of Genetics. Pergamino, Buenos Aires, September 23-26, 2007. Awarded Work: **Debat HJ**, Grabile M, Dalzotto A, López Lambertini P, Ducasse DA “ Transient expression via agroinfection of the coding region of the protein capsid (CP) of *Plum pox virus* , purification and use as a diagnostic reagent.”

- "Certificate of Achievement " for " **Extraordinary Academic Achievement** " awarded by Kenneth L. Perrin, Chancellor representing *Indiana University South Bend, IN, USA* .
- **Personal Letter of Recognition** for Outstanding Achievement from (Rev) Edward A. Malloy, **President of University of Notre Dame , IN . USA** .
- **Personal Letter of Recognition** for Academic Merits from **Richard G. Lugar, United States Senator** . 306 Hart, Senate Office Building, *Washington, DC 20510, USA* .
- "Certificate of Achievement" for Graduation with Honors awarded by **Cleo Washington, State Senator** representing the *Indiana Senate , IN. USA* .
- **Certificate of Recognition** for “Exceptional Academic Achievement” awarded by *Tim Roemer, Member of the United States Congress . IN. USA* .
- “Academic Merit Award” in Recognition of “ *Leadership, Meritorious Academic Achievements and Civic Qualities* ” granted within the framework of the “Charles E. Martin Sr. Outstanding Minority Student Program”, by Conmi Moore, Director of *YMCA Urban Youth Services , IN. USA* .
- **Award: “ Outstanding Minority Award ”** by Cheryl Torok-Fleming, Principal of **John Adams High School , IN. USA**.
- **Certificate of Recognition with High Honors** for “Demonstrated scholarship and outstanding commitment to being an excellent student” awarded by Mark S. Eagan, President & CEO of *la CámaraComerce of St. Joseph County, IN. USA* .
- **Certificate of Recognition** for “Outstanding Academic Performance” awarded by Philip A. Newbold, President of *Memorial Hospital & Health System , IN. USA* .
- "Certificate of Academic Achievement ", for "Extraordinary Academic Achievement" awarded by Hollis E. Hughes, President of *United Way of St. Joseph County , Inc. IN, USA*.
- Diploma of Recognition for Exceptional Academic Achievement awarded by *Saint Joseph's Medical Center, South Bend, IN. USA* .

INTERVIEWS AND COMMENTS IN GENERAL MEDIA ( SELECTED )

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(internationals in red)

- They revealed what type of coronavirus infects bats in Argentina. **Infobae** . 2-2023. <https://www.infobae.com/salud/ciencia/2023/02/11/revelaron-que-tipo-de-coronavirus-infectan-a-los-murcielagos-en-la-argentina/>

- They map out the third and fourth waves of the pandemic by following the tracks of the variants. **The Uncover** . 1-2023.  
<https://www.eldestapeweb.com/sociedad/salud/trazan-un-mapa-de-la-tercera-y-cuarta-ola-de-la-pandemia-siguiendo-las-huellas-de-las-variantes-20231231330>
- "Kraken", the new variant of Ómicron, is already in Chile and Brazil: what is expected for the rest of Latin America. **Infobae** . 1-2023.  
<https://www.infobae.com/america/ciencia-america/2023/01/14/kraken-la-nueva-variante-de-omicron-ya-esta-en-chile-y-brasil-que-se-wait-for-the-rest-of-latin-america/>
- MPOX: confirmed the second death from smallpox in Argentina. **The uncovering**. 1-2023. <https://www.eldestapeweb.com/sociedad/salud/mpox-confirmaron-la-segunda-muerte-por-la-viruela-en-la-argentina-20231917220>
- Covid-19: a “soup” of variants has been circulating in Córdoba since October. **Newspaper The Voice of the Interior** . 12-2022.  
<https://www.lavoz.com.ar/ciudadanos/covid-19-desde-octubre-circula-en-cordoba-una-sopa-de-variantes/>
- The presence of the new Ómicron sublineages grows along with the cases of COVID in Argentina. **Infobae** . 12-2022.  
<https://www.infobae.com/america/ciencia-america/2022/12/13/la-presencia-de-los-nuevos-sublinajes-de-omicron-crece-junto-a-los-casos-de-covid-in-argentina/>
- Coronavirus in AMBA: Ómicron's BQ.1 variant already represents more than 60% of cases. **Journal Page 12** . 12-2022.  
<https://www.pagina12.com.ar/507476-coronavirus-en-amba-la-variante-bq-1-de-omicron-ya-represent>
- What is known today about the new XBB subvariant of Omicron. **Infobae** . 12-2022. <https://www.infobae.com/america/ciencia-america/2022/12/07/que-se-sabe-hoy-sobre-la-nueva-subvariante-xbb-de-omicron/>
- In 2022, an “undetectable” strain of SARS-CoV-2 by PCR did not appear in Argentina. **AFP - Agence France-Presse** . 12-2022.  
<https://factual.afp.com/doc.afp.com.32ZT4ZB>

- Contagions and end-of-year meetings: how the rise in COVID, flu and bronchiolitis cases impacts in Latin America. **Infobae** . 11-2022.  
<https://www.infobae.com/america/ciencia-america/2022/11/26/tripledeamia-y-reuniones-de-fin-de-ano-como-impacta-la-suba-de-casos-de-covid-flu-and-bronchiolitis-in-latin-america/>
- Covid cases doubled: specialists recommend booster vaccinations. **Telam Agency** . 11-2022. <https://www.telam.com.ar/notas/202211/612232-covid-duplicaron-casos-contagios-vacunacion.html>
- COVID in Argentina: the number of hospitalized is the lowest since May 2020 and only one death per week is registered. **Infobae** . 11-2022.  
<https://www.infobae.com/salud/ciencia/2022/11/14/covid-en-argentina-la-cifra-de-internados-es-el-mas-baja-desde-mayo-de-2020-and-only-one-death-is-registered-per-week/>
- Covid-19: what can happen in Argentina with the new variants that are already impacting Europe. **Newspaper The Voice of the Interior** . 10-2022.  
<https://www.lavoz.com.ar/ciudadanos/covid-19-que-puede-pasar-en-argentina-con-las-nuevas-variantes-que-ya-impactan-en-europa/>
- Nobel Prize in Medicine: who is Svante Pääbo, the "laboratory animal" who found a new species from a finger bone. **Newspaper The Nation** . 10-2022.  
<https://www.lanacion.com.ar/sociedad/premio-nobel-de-medicina-quien-es-svante-paabo-el-animal-de-laboratorio-que-hallo-una-nueva-especie-nid03102022/>
- What does it mean that the end of the COVID pandemic is in sight. **Infobae** . 9-2022. <https://www.infobae.com/america/ciencia-america/2022/09/19/que-significa-que-se-vislumbre-el-final-de-la-pandemia-por-el-covid/>
- End of the mask: the reasons for the decision that it is no longer mandatory. **Journal Page 12** . 9-2022.  
<https://www.pagina12.com.ar/483832-fin-del-barbijo-el-gobierno-dispuso-que-ya-no-sera-obligatorio>
- What is known about the new Omicron BA.4.6 subvariant: is there anything to worry about? **Infobae** . 9-2022.  
<https://www.infobae.com/america/ciencia-america/2022/09/19/que-se-sabe-sobre-la-nueva-subvariante-omicron-ba46-hay-que-preocuparse/>

- Vaccines and variants: what can happen with the Covid-19 pandemic. **Newspaper The Voice of the Interior** . 9-2022. <https://www.lavoz.com.ar/ciudadanos/vacunas-y-variantes-que-puede-ocurrir-con-la-pandemia-de-covid-19/>
- Monkeypox: "microevolution" of the virus reinforces the importance of maintaining genomic surveillance. **medscape** . 9-2022. <https://espanol.medscape.com/verarticulo/5909698>
- **Sixth death as cause of mystery pneumonia outbreak identified** . **The Telegraph** . 9-2022. <https://www.telegraph.co.uk/global-health/science-and-disease/sixth-death-argentina-cause-mystery-pneumonia-outbreak-identified/>
- Monkeypox: WHO confirmed "encouraging signs" regarding the outbreak in Europe. **The Uncover** . 8-2022. <https://www.eldestapeweb.com/sociedad/salud/la-oms-celebro-como-alentadores-indicios-de-desaceleracion-de-viruela-del-mono-en-europa-202283010300>
- COVID in Argentina: province by province, how the Ómicron BA.5 subvariant circulates today. **Infobae** . 8-2022. <https://www.infobae.com/salud/2022/08/20/covid-en-la-argentina-provincia-por-provincia-como-circula-hoy-la-subvariante-omicron-ba5/>
- Coronavirus: will subvariant BA.5 be able to create a new wave of infections in Argentina? **Infobae** . 8-2022. <https://www.infobae.com/america/ciencia-america/2022/08/07/coronavirus-la-subvariante-ba5-podra-crear-una-nueva-ola-de-contagios-en-argentina/>
- Finally, the Ómicron BA.5 subvariant is predominant in Argentina. **Infobae** . 8-2022. <https://www.infobae.com/america/ciencia-america/2022/08/06/finalmente-la-subvariante-omicron-ba5-es-predominante-en-argentina/>
- Given the advance of BA.5 in the world, will the new vaccines against this Omicron variant arrive on time? **Infobae** . 8-2022. <https://www.infobae.com/salud/2022/08/11/ante-el-avance-de-ba5-en-el-mundo-las-nuevas-vacunas-contra-esta-variante-de-omicron-will-arrive-on-time/>
- The Omicron era. Covid-19 versus Covid-22: which symptoms remain and which have changed. **Clarín newspaper** . 7-2022.

[https://www.clarin.com/sociedad/covid-19-versus-covid-22-sintomas-mantienen-cambiaron\\_0\\_oc4W3kz1gS.html](https://www.clarin.com/sociedad/covid-19-versus-covid-22-sintomas-mantienen-cambiaron_0_oc4W3kz1gS.html)

- The European Union approved the use of a vaccine against monkeypox. **The Uncover** . 7-2022. <https://www.eldestapeweb.com/sociedad/salud/autorizan-el-uso-de-la-vacuna-imvanex-contra-la-viruela-del-mono-en-la-union-europea-202272513540>
- Coronavirus: what is "Centaurus" like, the variant studied by the WHO. **Journal Page 12** . 7-2022. <https://www.pagina12.com.ar/437357-coronavirus-como-es-centaurus-la-variante-que-estudia-la-oms>
- Covid-19: what are the risks of installing the Omicron BA.5 in Argentina. **Newspaper The Voice of the Interior** . 7-2022. <https://www.lavoz.com.ar/ciudadanos/covid-19-cuales-son-los-riesgos-de-que-omicron-ba5-se-instale-en-argentina/>
- Reported cases grow for the second week, is a new wave of Covid-19 beginning? **Telam Agency** . 7-2022. <https://www.telam.com.ar/notas/202207/598180-crecen-por-segunda-semana-casos-reportados-de-covid.html>
- More than 17% since the last week: why the cases of COVID-19 increased in Argentina. **Infobae** . 7-2022. <https://www.infobae.com/salud/ciencia/2022/07/11/mas-de-un-17-desde-la-ultima-semana-por-que-aumentaron-los-casos-de-covid-19-in-argentina/>
- What is known about the Omicron BA.4 and BA.5 subvariants that are driving an increase in COVID-19 cases and arrived in the country. **checked** . 7-2022. <https://chequeado.com/el-explicador/que-se-sabe-sobre-las-subvariantes-de-omicron-ba-4-y-ba-5-que-estan-impulsando-un-aumento-de-casos-of-covid-19-in-the-world-and-arrived-in-argentina/>
- Monkeypox: WHO confirmed more than 5,000 cases. **The Uncover** . 7-2022. <https://www.eldestapeweb.com/sociedad/salud/la-oms-confirmando-mas-de-5-000-casos-de-viruela-del-mono-en-el-mundo-20227510570>
- Is a fifth wave beginning in Argentina?: where the most contagious subvariants of Ómicron were detected. **Infobae** . 7-2022. <https://www.infobae.com/salud/ciencia/2022/07/04/comienzo-una-quinta-ola-en-argentina-donde-se-detectaron-las-subvariantes-mas-contagiosas-de-omicron/>



- Covid: Ómicron BA.1 and BA.2 dominate in Argentina but other lineages advance in the rest of the world. **Newspaper The Voice of the Interior** . 7-2022. <https://www.lavoz.com.ar/ciudadanos/covid-omicron-ba1-y-ba2-dominan-en-argentina-pero-otros-linajes-avanzan-en-el-resto-del-mundo/>
- Covid-19: which is the variant that circulates the most in the country. **Diary Scope** . 7-2022. <https://www.ambito.com/covid-19/cual-es-la-variante-que-mas-circula-el-pais-n5477081>
- The new Omicron subvariants are more "evasive" to vaccine immunity. **Telam Agency** . 6-2022. <https://www.telam.com.ar/notas/202206/597118-coronavirus-omicron-subvariantes-inmunidad-vacunas.html>
- They detected the first case of the Omicron BA.5 subvariant in Argentina. **Infobae** . 6-2022. <https://www.infobae.com/salud/2022/06/29/detectaron-el-primer-caso-de-la-subvariante-omicron-ba5-en-argentina/>
- Omicron BA.4 and BA.5: will they promote a new wave of COVID-19 in Argentina? **Infobae** . 6-2022. <https://www.infobae.com/america/ciencia-america/2022/06/29/omicron-ba4-y-ba5-seran-las-responsables-de-una-nueva-ola-de-covid-19-in-Argentina/>
- How Ómicron's new subvariants escape vaccination and infection antibodies. **Infobae** . 6-2022. <https://www.infobae.com/america/ciencia-america/2022/06/23/como-escapan-de-los-anticuerpos-de-la-vacunacion-y-la-infeccion-las-nuevas-subvariantes-de-omicron/>
- Monkeypox: WHO emergency meeting to assess whether the disease represents an international emergency. **The Uncover** . 6-2022. <https://www.eldestapeweb.com/sociedad/salud/la-oms-evaluara-si-la-viruela-del-mono-representa-una-emergencia-de-salud-publica-internacional-202261411590>
- Fourth wave of COVID: despite the drop in infections, why positivity continues to rise. **Infobae** . 6-2022. <https://www.infobae.com/america/ciencia-america/2022/06/08/cuarta-ola-de-covid-pese-a-que-bajaron-los-contagios-por-que-la-positividad-it-keeps-on-rise/>
- This is how the three sub-variants of Ómicron that spread the most in the world act. **Infobae** . 6-2022. <https://www.infobae.com/america/ciencia-america/2022/06/07/asi-actuan-las-tres-subvariantes-de-omicron-que-mas-se-propagan-en-el-mundo/>

- The current outbreak of monkeypox in 22 countries has a single source. **The Uncover** . 5-2022. <https://www.eldestapeweb.com/sociedad/ciencia/el-actual-brote-de-viruela-del-mono-en-22-paises-tiene-un-solo-origen-20225280542>
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#### MEMBER OF ACADEMIC AND PROFESSIONAL SOCIETIES ( 4 )

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- Member of the Argentine Society for Research in Biochemistry and Molecular Biology ( **SAIB** ). Since 2006.
- Member of the Argentine Association of Bioinformatics and Computational Biology ( **A2B2C** ). Since 2011.
- Member of **RedBio** Argentina Civil Association. Since 2011.
- Member of the Argentine Association of Phytopathologists ( **AAF** ). Since 2013 .

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#### REFEREE AND MEMBER OF THE EDITORIAL COMMITTEE OF INTERNATIONAL JOURNALS

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- **Associate Editor** of *Frontiers in Virology* (*Frontiers*). Since 2022.
- **Academic Editor** of *PLoS ONE* (*PLOS*). Since 2022.
- **Handling Editor** of articles for *Frontiers in Microbiology* (*Frontiers*). Since 2022.
- **Research Topic Editor** of *Frontiers in Virology* (*Frontiers*). 2022-2023.
- He has been a reviewer of numerous scientific articles in various academic journals including :
  - BMC Plant Biology* (*Springer Nature*)
  - *Journal of General Virology* (*Microbiology Society*)
  - F1000 Research* (*F1000*)
  - *PeerJ Life and Environmental Sciences* (*PeerJ*)
  - Virology* ( *Elsevier* )
  - *Molecular Plant Pathology* (*Wiley-Blackwell*)

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  - *PLoS Neglected Tropical Diseases* (PLOS)
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  - *Frontiers in Plant Science* (Frontiers)
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- **Editorial Board Member** of the European Journal of Biotechnology and Biosciences. ISSN: 2321-9122. **2015-2019** .
  - **Editorial Board Member** of the International Journal of Multidisciplinary Research and Development. ISSN: 2349-5979. **2015-2019** .
  - **Editorial Board Member** of the International Journal of Plant Biology & Research. USES. ISSN: 2333-6668. **2015-2019** .
  - **Editorial Board Member** of the Journal JSM Genetics & Genomics. USES. **2015-2019** .



Humberto Julio Debat