

# XIMENA C. ABREVAYA

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## CURRENT POSITION

**Senior Research Scientist – CONICET (permanent position).** Astrobiologist, Instituto de Astronomía y Física del Espacio (IAFE), University of Buenos Aires - CONICET, Argentina (since 2013).

## EDUCATION

**2011 PhD in Biological Sciences**, University of Buenos Aires, Argentina. Title of the Thesis: 'UV radiation effects on microorganisms for the elaboration of habitability models and the search for simple life forms in solar and extrasolar planets'. Advisor: Dr. E. Cortón (UBA – CONICET) Dr. P. Mauas (UBA – CONICET). Qualification: 10/10

**2005 Licenciata in Biological Sciences** (equivalent to MSc), University of Buenos Aires, Argentina. Title of the Thesis: 'Genetic Toxicology: the Micronucleus Test as a Biomarker of Damage in Genotoxicity induced by Metronidazole' Advisor: Dr. M. Mudry (UBA-CONICET). Qualification: 10/10

## AWARDS

**National Award to Scientific Journalism**, 2007. Ministry of Science, Technology and Productive Innovation of the Nation (MINCyT). Buenos Aires, Argentina.

## FELLOWSHIPS

**Postdoctoral fellow FAPESP (2013-2014)** Topic: Stellar radiation and its influence over the biosphere of planetary bodies. Research Unit in Astrobiology, IAG, University of Sao Paulo, Sao Paulo, Brazil.

**Postdoctoral fellow CONICET (2011-2013)** Topic: UV habitability in extrasolar planets. Instituto de Astronomía y Física del Espacio –UBA - CONICET, Buenos Aires, Argentina.

**Doctoral fellow University of Buenos Aires (2010-2011).** Topic: UV habitability in extrasolar planets. Instituto de Astronomía y Física del Espacio–UBA-CONICET, Buenos Aires, Argentina.

**Doctoral fellow ANPCyT (2007-2010).** Topic: UV habitability in extrasolar planets. Instituto de Astronomía y Física del Espacio–UBA-CONICET , Buenos Aires, Argentina.

## EMPLOYMENT & RESEARCH EXPERIENCE

**Senior Research Scientist CONICET** at Instituto de Astronomía y Física del Espacio – UBA – CONICET, Argentina (2013 – current).

**Visiting researcher. Harvard Smithsonian Center for Astrophysics.** Harvard, USA (March-May 2014)

**Visiting researcher. NASA Ames Research Center.** Moffet Field, California, USA (April 2014).

**Visiting researcher. Institute of Physics, University of Graz.** Graz, Austria (June 2014).

**Postdoctoral Fellow FAPESP** at research Unit in Astrobiology, IAG, USP. Sao Paulo, Brazil (2013 – 2014).

**Postdoctoral Fellow CONICET** at Instituto de Astronomía y Física del Espacio, University of Buenos Aires and National Research Council for Sciences (CONICET). Subject under research: UV Habitability Models in dMe stars (2011 – 2013).

**Visiting researcher. Lustbühel Astronomical Observatory. University of Graz.** Graz, Austria. (May-July 2012).

**Visiting researcher. Astronomical Observatory of Córdoba. National University of Córdoba.** Cordoba, Argentina (April 2012).

**Doctoral research fellow** at Instituto de Astronomía y Física del Espacio, University of Buenos Aires and National Research Council for Sciences (CONICET) (2007 – 2011)

**Spokeswoman** of the Genetics, Ecology and Evolution Department. Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina (2006 – 2007).

**Editor and Scientific Journalist.** IntraMed. International website for physicians and other professionals of health care. [www.intramed.net](http://www.intramed.net) (2005 – 2007).

**TV Producer and Scientific Journalist** of the science television program 'Científicos Industria Argentina'. El Oso producciones S.R.L. (2004 – 2005)

**Organizer of international scientific meetings.** Sub-secretariat for International Relations. Government of the City of Buenos Aires, Argentina (2005)

#### **ARTICLES PUBLISHED IN REFEREED JOURNALS**

21. Figueredo, F., Cortón, E., **Abrevaya, X.C.** (2015) *In situ search for extraterrestrial life: A Microbial Fuel Cell-Based Sensor for the Detection of Photosynthetic Metabolism.* **Astrobiology** 15: 717-727.

20. Figueredo, F., **Abrevaya, X.C.**, Cortón, E. (2015) *A new P. putida instrumental toxicity bioassay.* **Environmental Monitoring and Assessment** 187: 1-13.

19. **Abrevaya, X.C.**, Sacco, N.J., Bonetto, M.C., Hilding-Ohlsson, A., Cortón, E. (2015) *Analytical applications of microbial fuel cells. Part I: Biochemical oxygen demand.* **Biosensors and Bioelectronics** 63: 580-590

18. **Abrevaya, X.C.**, Sacco, N.J., Bonetto, M.C., Hilding-Ohlsson, A., Cortón, E. (2015) *Analytical applications of microbial fuel cells. Part II: Toxicity, microbial activity and quantification, single analyte detection and other uses.* **Biosensors and Bioelectronics** 63: 591-601

17. **Abrevaya, X.C.** (2014) *Astrobiology in Argentina and the study of stellar radiation on life.* **Boletín de la Asociación Argentina de Astronomía La Plata Argentina** 56: 113-122

16. García, M., **Abrevaya, X.C.**, Gómez, M.N. (2014) *Condiciones físicas de exoplanetas y microorganismos que habitan ambientes extremos (Physical conditions on exoplanets and microorganisms inhabiting extreme environments).* **Boletín de la Asociación Argentina de Astronomía La Plata Argentina** 56: 407-410

15. **Abrevaya, X.C.**, Hanslmeier, A., Leitzinger, M., Odert, P., Mauas, P.J.D., Buccino, A. P. (2013) *UV Radiation of the young Sun and its Implications for life in the Solar System*. **Central European Astrophysical Bulletin** 37: 649-654.
14. **Abrevaya, X.C.**; Cortón E.; Areso O.; Mauas P. J. D. (2013) *A Simple Laser-Based Device for Simultaneous Microbial Culture and Absorbance Measurement*. **Instruments and Experimental Techniques** 56: 472-476.
13. Lage, C., Dalmaso G., Texeira, L., Bendia A., Paulino Lima, I., Galante, D., Janot-Pacheco E., **Abrevaya X.C.**, Azua-Bustos, A., Pellizari V., Rosado A. (2012) *Probing the limits of extremophilic life in extraterrestrial environment-simulated experiments*. **International Journal of Astrobiology** 11: 251-256.
12. **Abrevaya X.C.**; Paulino-Lima I.G.; Galante D.; Rodrigues F., Cortón E., Mauas P.J.D.; de Alencar Santos Lage, C. (2011) *Comparative survival analysis of Deinococcus radiodurans and the haloarchaea Natrionalba magadii and Haloferax volcanii, exposed to vacuum ultraviolet irradiation*. **Astrobiology** 11, 1034-1040.
11. **Abrevaya X.C.**, Sacco N., Mauas P.J.D., Cortón E. (2011). *High Ionic Strength Microbial Fuel Cell using Salt Tolerant Archaea*. **Extremophiles** 15:633–642.
10. Buccino A.P; Díaz R.F; Luoni M.L., **Abrevaya, X.C.**; Mauas P.J.D. (2011) *Long-term chromospheric activity in southern M dwarfs: Gl 229 A and Gl 752 A*. **Astronomical Journal** 141, article id. 34.
9. **Abrevaya X.C.**, Cortón E., Mauas P.J.D (2011) *Flares and habitability*. **Proceedings IAU Symposium 286: Comparative magnetic minima: characterizing quiet times in the Sun and stars, Cambridge University Press**. S286: 405-409.
8. Mauas, P.J.D., Buccino, A., Diaz, R., Vieytes, M. Petrucci, R. Jofre, E., **Abrevaya, X.**, Luoni, M.L., Valenzuela, P. (2011) *12 years of stellar activity observations in Argentina*. **Proceedings IAU Symposium 286: Comparative magnetic minima: characterizing quiet times in the Sun and stars, Cambridge University Press**. S286: 317-323.
7. Cebal E.; **Abrevaya X.C.**; Mudry M.D. (2011) *Male and Female Reproductive Toxicity induced by moderate chronic ethanol exposure in CF-1 mice*. **Cell Biology and Toxicology** 27:237–248.
6. **Abrevaya, X.C.**; Mauas P. J. D.; Cortón E. (2010) *Microbial fuel cells applied to the metabolically - based detection of extraterrestrial life*. **Astrobiology** 10 (10): 965-971.
5. **Abrevaya X.C.**; Mauas P.J.D.; Cortón E. (2010) *Microbial Fuel Cells as Life Detection Sensors for Terrestrial and Extraterrestrial Environments*. **Proceedings Ibersensor 2010**
4. **Abrevaya, X.C.**; Cortón, E.; Mauas, P. J. D. (2009) *UV habitability and dM stars: an approach for evaluation of biological survival*. **Solar and Stellar Variability: Impact on Earth and Planets. Proceedings IAU Symposium, Cambridge University Press**. 264: 443-445.
3. **Abrevaya, X. C.**; Adamo, H. P.; Cortón, E.; Mauas, P. J. D. (2008) *The UV limits of life on extrasolar planets. An experiment with halophile archeabacteria at different UV doses*. **Boletín de la 51ª Reunión de la Asociación Argentina de Astronomía (AAA)**. 51: 3-6 pp.
2. **Abrevaya, X.C.**; Carballo M.A. Mudry M. D. (2007) *The bone marrow micronucleus test and metronidazole genotoxicity in different strains of mice (Mus musculus)*. **Genetics and Molecular Biology** 30 (4): 1139-1143.
1. **Abrevaya, X.**; Andrioli, N; Bo, R; Courtalón, P; Du Mortier, C; Lozano, P; Massarini, A; Mola, L; Mudry, M; Nieves, M; Papeschi, A; Rebagliati, P; Rodríguez Gil, S; Weinberg, D; Wulff, A. (2005) *La*

*Semana de la Biología, una experiencia en Argentina sobre la vinculación entre educación media y superior*. **Enseñanza de las Ciencias**, número extra VII Congreso. pp. 1-4.

## CHAPTERS IN BOOKS

**Abrevaya, X.C.** (2012) *'Features and applications of halophilic archaea'*. In: *Extremophiles: Sustainable Resources and Biotechnological Implications* (Editor: Dr. Om V. Singh), Ed. Wiley. 123-158 pp.

Mudry, M.D., **Abrevaya, X.C.** (2005) *'Evaluation of clastogenicity and aneugenicity'*. In: *Genetic Toxicology*. (Eds. Dra. Mudry, M.D.; Dra. Carballo M.A.). Ed 'De los Cuatro Vientos'. Buenos Aires, Argentina. 277-298pp

## OTHER BIBLIOGRAPHICAL PRODUCTION

Author of more than **30 articles (scientific outreach)** published in different mass media (newspapers, journals, and internet media).

## ACADEMIC ADVISORY & TEACHING

**Advisor** of the undergraduate student **in Biochemistry** of Giselle Di Guardo (internship), Facultad de Farmacia y Bioquímica, University of Buenos Aires (2014-current).

**Co-Advisor** of the **Licenciatura Thesis in Biological Sciences (equivalent of MSc degree)** of Pablo N. Nuñez Pölcher (2014). University of Buenos Aires, Argentina. Topic: Synthesis of polymers in carbon electrodes and their potential use in microbial fuel cells as photosynthetic metabolism biosensors.

**Advisor** of the **Licenciatura Thesis in Astronomy (equivalent of MSc degree)** of Matías Javier García (2014). National University of Córdoba, Argentina. Topic: Physical conditions on Exoplanets and microorganisms surviving in extreme environments.

**Advisor** of Laura da Silva (**internship from Université Paris Diderot**, París – University of Buenos Aires, Argentina) (2012) Topic: Effects of UV radiation on halophilic archaea.

**Advisor** of several internships of several **undergraduate students at University of Buenos Aires** (2010-to present) in topics related to Astrobiology.

**Professor** and responsible of the course **'Introduction to Astrobiology'** at Astronomical Observatory of Córdoba, Universidad Nacional de Córdoba (2012).

**Invited professor** at **General Biology and Zoology Course**. Favaloro University (2009).

**Advisor-Tutor** of admission course to University of Buenos Aires, CBC-UBA. Program PACENI (Programa de Apoyo para el Mejoramiento de la Enseñanza en primer año de carreras de grado de Ciencias Exactas, Ciencias Naturales, Ciencias Económicas e Informática). Ministry of Education, Faculty of Exact and Natural Sciences, University of Buenos Aires (2009).

**Teaching assistant** . **Genetics Course** (2007 and 2009) and **Genetic Toxicology Course** (2002 and 2003) University of Buenos Aires.

## GRANTS & FUNDING

**Awarded** with a travel grant to attend **25<sup>th</sup> RAU Annual User's Meeting (invited talk)** Campinas, Brazil. Sept. 2015.

**Principal investigator. Bilateral cooperation agreement Argentina-Austria.** MINCYT – BMWF (AU1012): La influencia de la radiación UV del sol joven sobre la vida. (2012-2015).

**Principal investigator.** TGM -16126 : Simulations on interplanetary transfer of life (lithopanspermia) and radiation. The Biosun Project. Synchrotron Light National Laboratory (LNLS). Campinas, Brazil. (2014)

**Awarded** with a travel grant to attend **XLIII Congreso Argentino de Genética (invited talk)** San C. de Bariloche, Argentina. Oct. 2014.

**Awarded** with a travel grant to attend the **workshop Star-Planet Interaction and the Habitable Zone (invited talk).** Saclay, France. Nov., 2014.

Co-investigator. Bilateral cooperation agreement Argentina-Austria MINCYT – BMWF: Solar and Stellar Activity. Ministry of Science, Technology and Innovation. National Directorate of International Relations. 2011-2013. University of Graz, Austria.

**Awarded** with a travel grant to attend **Astrobio2013 (invited talk).** Santiago de Chile, Chile. Dec, 2013.

Co-investigator. Project PICT 2013-1768 Stellar and Planetary Astrophysics (2014-2017)

Co-investigator Project PIP 112 201201 00566 (2014-2017)

Co-investigator Project PICT-2008-0734: Actividad Estelar (2011 - 2013).

Co-investigator Project CONICET PIP 112 200901 0046 (2011 - 2013).

Co-investigator Project: UBACyT X138: Solar and Stellar Activity (2008 - 2011).

Co-investigator. D05A-TGM-12734 – Simulation of Astrobiologically-Relevant Environments: Tests with Extremophiles. Synchrotron Light National Laboratory (LNLS). Campinas, Brazil (2011)

Co-investigator. PROANTAR project: The Antarctic Microbiological Environment as Model in Astrobiological Studies. 2010-2013. Brasil – EEUU – Chile – Rusia – Argentina.

Co-investigator. D05A-TGM-10064. Studies about viability of extremophilic microorganisms in simulated extraterrestrial environments. Synchrotron Light National Laboratory (LNLS). Campinas, Brazil (2010)

**Awarded** with a travel grant to attend **Astrobio 2010.** Santiago, Chile. Jan, 2010.

**Awarded** with a travel grant to attend **2nd Iberoamerican post-graduate school of -Astrobiology 'From big-bang to civilizations'.** Montevideo, Uruguay. Sept., 2009.

**Awarded** with a travel grant to attend **Astrobiology Graduate Student Conference 09.** University of Washington. Seattle, Washington, USA. July, 2009.

**Awarded** with a travel grant to attend **Research Focus Workshop 09.** University of Washington, Seattle, Washington, USA July, 2009.

**Awarded** with a travel grant to attend **Internacional School of Astrobiology**: 'Joseph Comas i Sola'. Centro de Astrobiología, España & NASA Astrobiology Institute, USA. Santander, España. June, 2009.

Co-investigator. UBACyT X138: Solar and Stellar Activity. University of Buenos Aires, Argentina. 2008-2011.

Co-investigator. PICT-2008-0734: Stellar Activity. ANPCYT (Agencia Nacional de Promoción Científica y Tecnológica). 2011-2013.

## **PARTICIPATION IN EVENTS**

45. **25th RAU Annual User's Meeting (2015)**. Campinas, Brazil. **Abrevaya X.C. et al.** 'The use of synchrotron radiation in Astrobiology: Lithopanspermia studies and the Biosun project' (**invited talk**).

44. **XLIII Congreso Argentino de Genética (2014)**. San C. de Bariloche, Argentina. **Abrevaya X.C.** 'Astrobiología: el estudio de la vida como un fenómeno planetario' (**invited talk**).

43. **Star-Planet Interaction and the Habitable Zone (2014)** Saclay, Francia. **Abrevaya X.C. et al.**, 'The Exo-UV project' (**invited talk**)

42. **Astrobio2013 (2013)** Santiago de Chile, Chile. **Abrevaya, X.C. et al.**, 'The BioSun Project' (**invited talk**).

41. **XIV Latin American Regional IAU Meeting (2013)**, Florianópolis, Brasil. **Abrevaya X. C. et al.** 'The BIOSUN project: an astrobiological approach to study the origin of life in the context of the young Sun/solar stellar analogs'

40. **2nd Brazilian Workshop of Astrobiology (2013)** Guarujá, Brasil. **Abrevaya X.C. et al.** 'The Biosun Project' (**invited talk**).

39. **Workshop on Paleo and Astrobiology (2013)** Sao Paulo, Brasil. **Abrevaya X. C.** 'Solar analogs, radiation and the origin of life: The BIOSUN Project' (**invited talk**).

38. **56 Reunión de la AAA (2013)** Tandil, Argentina. **Abrevaya X. C.** 'Astrobiology in Argentina and the Study of Stellar Radiation on Life' (**plenary talk**).

37. **XIIth Hvar Astrophysical Colloquium (2012)**. Hvar, Croatia. **Abrevaya, X.C.**, Hansmeier, A., Leitzinger, M., Odert, P., Buccino, A., Mauas, P. 'The radiation environment of the young Sun and its implications for life in the Solar System'.

36. **European Planetary Science Conference (2012)** Madrid, Spain. Lage, C., Dalmaso, G., Teixeira, L., Bendia, A., Paulino-Lima, I., Janot-Pacheco, E., **Abrevaya, X.**, Azúa-Bustos, A., Pelizzari, V., Rosado, A. 'The limits of extremophilic life expanded under extraterrestrial environment-simulated experiments'.

35. **9<sup>th</sup> International Congress on Extremophiles (2012)** Sevilla, Spain. Lage, C., Dalmaso, G., Teixeira, L., Bendia, A., Paulino-Lima, I., Galante, D., Janot-Pacheco, E., **Abrevaya, X.**, Azúa-Bustos, A., Pelizzari, V., Rosado, A. 'Probing the limits of extremophilic life in extraterrestrial environment simulated experiments'.

34. **39<sup>th</sup> COSPAR General Assembly (2012)**. Mysore, India. **Abrevaya, X.C.**, Cortón, E., Mauas, P.J.D. 'UV constraints for habitability around dMe stars'.

33. **Mars Planetary Science Conference** (2012). Budapest, Hungary.
32. **Exo-Life workshop: Extraterrestrial life - beyond our expectations?** (2012). Vienna, Austria. **Abrevaya, X.C.**, Cortón, E., Mauas, P.J.D. 'Flare Activity and UV Habitability in Extrasolar Planets'.
31. **Sao Paulo Advanced School of Astrobiology**, Universidad de Sao Paulo, Departamento de Astronomia. (2011). Sao Paulo, Brasil. **Abrevaya, X.C.**, Cortón, E., Mauas, P.J.D. 'Astrobiology Group-Argentina: from in situ life detection to habitability in extrasolar planets'
30. **IAU Symposium 286: Comparative Magnetic Minima: Characterizing quiet times in the Sun and stars.** (2011). Mendoza, Argentina. **Abrevaya, X.C.**, Cortón, E., Mauas, P.J.D. 'EV-Lac as a potential host for habitable planets'.
29. **7th Ibero-American Congress on Sensors. Ibersensors 2010.** Lisboa, Portugal. **Abrevaya X. C.**; Mauas P.J.D.; Cortón E. (2010) 'Microbial Fuel Cells as Life Detection Sensors for Terrestrial and Extraterrestrial Environments'
28. **53a Reunión de la Asociación Argentina de Astronomía (AAA)** (2010) Salta, Argentina. **Abrevaya X.C.**; Mauas P. J. D.; Stella A.M.; Duarte P.A.; Cortón, E. 'Detección de metabolismo autotrófico mediante el uso de Celdas de Combustible Microbianas para la búsqueda de vida extraterrestre'.
27. **III Congreso SETAC** (2010). Santa Fe, Argentina. Cebal E., **Abrevaya X.C.**, Mudry M. D. 'Evaluación de los efectos de la ingesta crónica de etanol en ratones exocriados CF-1 aplicando Test de Micronúcleo y morfología gamética'.
26. **Astrobio 2010.** (2010). Pontificia Universidad Católica. CEPAL. Santiago de Chile, Chile.
25. **Segunda Escuela de Post-grado Iberoamericana de Astrobiología.** Del Big-Bang a las Civilizaciones. (2009). UNESCO & Universidad de la República. Facultad de Ciencias. Montevideo, Uruguay.
24. **Astrobiology Graduate Student Conference 09.** (2009) University of Washington, Seattle, NASA Astrobiology Institute, USA. Abrevaya X.C. 'The UV Limits of Life: an experiment with halophile archaeabacteria'. *Astrobiology*. 9 (5): 517.
23. **Research Focus Workshop 09.** (2009) University of Washington, Seattle, NASA Astrobiology Institute, USA. **Abrevaya, X.C.**; Crockett C.J.; Meneses-Goytia S. 'Detection of infrared biosignatures of Earth – like primitive atmospheres in transiting exoplanets'.
22. **International School of Astrobiology «Josep Comas I Solà».** Earth Extremophiles and The Habitability of Extraterrestrial Environments. (2009). Centro de Astrobiología, España. NASA Astrobiology Institute, USA y Universidad Internacional Menendez Pelayo. Santander, España.
21. **International Astronomical Union (IAU) XXVII General Assembly** (2009). Río de Janeiro, Brasil. **Abrevaya X.C.**; Cortón E.; Mauas P.J.D. 'UV habitability and dM stars: an approach for evaluation of biological survival'.
20. **52a Reunión de la Asociación Argentina de Astronomía (AAA)** (2009) San Juan, Argentina. **Abrevaya, X.C.**; Cortón, E.; Mauas, P. J. D. 'Celdas de Combustible Microbianas aplicadas a la detección de vida microbológica extraterrestre'.
19. **XV International Conference on the Origin of Life. International Society for the Study of the Origin of Life and Astrobiology Society (ISSOL).** (2008). Florencia, Italia. **Abrevaya X.C.**; Adamo, H.; Mauas P.J.D. 'Halophile archeabacteria at different UV doses: an experiment for the UV limits of

life'. **Origins of Life and Evolution of Biospheres**. p 379.

18. **51a Reunión de la Asociación Argentina de Astronomía (AAA)** (2008) Malargüe, Argentina. **Abrevaya, X.C.**; Adamo, H. P.; Cortón, E.; Mauas, P. J. D. 'The UV limits of life on extrasolar planets. An experiment with halophile archaeobacteria at different UV doses'.

17. **V Congreso SAMIGE** (2008) Rosario, Argentina. **Abrevaya, X.C.**; Adamo, H. P.; Cortón, E.; Mauas, P. J. D. 'Natrialba magadii (an halophile archaeobacteria) as a model to understand microbial UV-C tolerance and survival in extraterrestrial environments'. *Actas V Congreso de la Sociedad Argentina de Microbiología (SAMIGE)* 61 p.

16. **X Jornadas de la Sociedad Argentina de Biología (SAB)** (2008). Buenos Aires, Argentina. **Abrevaya, X. C.**; Cortón, E.; Mauas, P. J. D. 'Halophile archaeobacteria as a model for astrobiological studies'. *Biocell* 33(2): 196.

15. **XX Reunión ALIRH** (2007). Buenos Aires, Argentina. **Abrevaya, X.C.**; Cebal E.; Coll T.A.; Mudry, M.D. 'Monitoreo de genotoxicidad y teratogénesis embrionaria temprana luego del consumo crónico de alcohol'. *Medicina* (67), supl. I, 130 p.

14. **II Congreso Internacional de Astronomía**. (2007) Mar del Plata, Argentina. Centro de Estudios Astronómicos de Mar del Plata. IV Encuentro Asociación Cielo Sur.

13. **I Simposio SETAC**, Society of Environmental Toxicology and Chemistry. (2006). Córdoba, Argentina. **Abrevaya, X.C.**; Cebal, E., Mudry, M.D. 'Monitoreo genotóxico y ensayo de micronúcleos en médula ósea de distintas cepas murinas'. *Actas I Simposio SETAC*. 55 p.

12. **I Simposio SETAC**, Society of Environmental Toxicology and Chemistry. (2006). Córdoba, Argentina.. Mudry M. D.; **Abrevaya X.C.**; Andrioli, N.; Cebal, E.; Greizerstein, E.; Palermo, A.M.; Papeschi, A.; Poletta, G.; Steinberg, E.R. 'Mutagénesis química: monitoreo con ensayos de corto plazo'. *Actas I Simposio SETAC* 55 p.

11. **VII Congreso Internacional sobre Investigación en la Didáctica de las Ciencias** (2005) Granada, España. **Abrevaya, X.**; Andrioli, N; Bo, R; Courtalón, P; Du Mortier, C; Lozano, P; Massarini, A; Mola, L; Mudry, M; Nieves, M; Papeschi, A; Rebagliati, P; Rodríguez Gil, S; Weinberg, D; Wulff, A. 'La Semana de la Biología, una experiencia en Argentina sobre la vinculación entre educación media y superior'.

10. **VII Congreso SETAC - L.A.** (2005) Universidad Andres Bello. Santiago de Chile, Chile. **Abrevaya, X.C.**, Carballo, M.A., Mudry, M.D. 'Test de micronúcleos de médula ósea de ratón de diferentes cepas de bioterio'.

9. **XIV Congreso Argentino de Toxicología**, ATA-ALAMCTA. (2005). Mendoza, Argentina. **Abrevaya, X.C.**; Mudry, M.D.; Carballo, M.A. 'Micronúcleos y evaluación de genotoxicidad en cepas murinas'. VI Congreso Latinoamericano de Mutagénesis, Carcinogénesis y Teratogénesis ambiental. *Acta Toxicológica Argentina*. Vol 13: 111.

8. **XXXIII Congreso Argentino de Genética** (2004). Mendoza, Argentina. 'El test de micronúcleos en médula ósea de ratón para evaluar sensibilidad de cepas ante potenciales agentes genotóxicos'. **Abrevaya, X.C.**; Mudry, M.D.; Carballo, M.A. *Journal of Basic & Applied Genetics (Formerly Mendeliana)*. Vol. XVI: 60-61pp.

7. **I Congreso Conjunto de Sociedades Biomédicas**, SAN-SAFE-SAIB-SAIC-SAI-SAF-SAB (2004). Mar del Plata, Argentina.

6. **XIII Congreso Argentino de Toxicología. XXIII Jornadas Interdisciplinarias de Toxicología II**



**Jornadas Rioplatenses de Toxicología (ATA).** (2003). Córdoba, Argentina. **Abrevaya, X.C.;** Mudry, M.D.; Carballo, M.A. 'Ensayo de Micronúcleos en cepas de ratones endocriadas y exocriadas (II)'. *Acta Toxicológica Argentina*. Vol 11, supl. 2: 80 pp.

5. **XXII Jornadas Interdisciplinarias de Toxicología.** (2002). Buenos Aires, Argentina. **Abrevaya, X.C.;** Mudry, M.D, Carballo, M.A. 'Ensayo de Micronúcleos en cepas de ratones endocriadas y exocriadas'. *Acta Toxicológica Argentina*. (electrónica).

4. **Simposio 'Proyecto Genoma Humano y Reprogenética: impacto en Medicina Reproductiva',** Tercera tribuna Magistral en reproducción Humana, CEGYR. (2000). Buenos Aires, Argentina

3. **Simposio 'Biología Molecular Estructural',** Instituto de Investigaciones Bioquímicas 'Luis F. Leloir' (1999). Buenos Aires, Argentina.

2. **Simposio 'Clonación: aplicaciones y controversias',** Segunda Tribuna Magistral en Reproducción Humana, CEGYR. (1999) Buenos Aires, Argentina.

1. **III Congreso Argentino de Andrología, SAA** (1999). Buenos Aires, Argentina.

## **PROFESSIONAL MEMBERSHIPS**

Member of the **International Astronomical Union (IAU)** (since 2012).

Professional member of the **Argentinean Astronomical Association (AAA)** (since 2011).

## **SCIENTIFIC OUTREACH/ JOURNALISM**

Author of more than **30 articles** published in different mass media as newspapers, journals, and internet media (since 1999).

Participation in outreach activities at Faculty of Exact and Natural Sciences, University of Buenos Aires 'La semana de la biología' (The week of biology) (2004 and 2005) and 'La noche de los Museos' (The night of Museums) (2014 and 2015). Organizer of 'Las charlas de los Viernes' (Friday's talks) (1998 to 2002).

Organizer of "FUBA 2000", University of Buenos Aires (2000).

Specialization Course on journalistic writing. National Agency for Communication (ANC) - Union of Press Workers of Buenos Aires (UTPBA) (2003).

Specialization VII Course- Workshop on Science Journalism. Faculty of Natural Sciences UBA-& T (1999).

Participant of Latin-american Science Journalism meeting "Encuentro Latinoamericano de Periodistas Científicos y Ambientales: límites y desafíos en el ejercicio de la profesión". Science and Development Network y Red de Comunicación Ambiental de Latinoamérica y el Caribe. Montevideo, Uruguay (2005).

Participant of I Congreso Internacional Virtual, "TIC vida 05'". Asociación de Documentalistas de España. (2005).

Participant of seminar-workshop for journalists "Salud y derechos sexuales y reproductivos en la Argentina: una puesta al día" Centro de Estudios de Estado y Sociedad (CEDES) (2004).

## **LANGUAGES**

**English.** Communicative and linguistic performance, reading, speaking and writing skills. Advanced level.

**Portuguese.** Communicative and linguistic performance, reading, speaking and writing skills. Intermediate level.

**German.** Basic level

**Spanish.** Native.