

CURRICULUM VITAE

Name: Antígona Segura

Full time senior researcher at the Instituto de Ciencias Nucleares, Universidad Nacional Autónoma de México. Permanent position.

Place and date of birth: Mexico, City, Mexico, September 20, 1971.

Education:

- Ph.D. (Space Physics) with Honorific Mention. Thesis: Nitrogen fixation by volcanic lightning on early Mars. Universidad Nacional Autónoma de México, México, 2001.
- M. Sc. (Astronomy). Universidad Nacional Autónoma de México (UNAM), Mexico, 1997. Obtained by general exams.
- Specialization on Popularization of Science. Universidad Nacional Autónoma de México, Mexico, 1998.
- B. Sc. (Physics). Universidad Autónoma de San Luis Potosí, Mexico, 1994. Thesis: Polarizabilidad de Mie en tres diferentes teorías de Campo Medio (Mie polarization on three different mean field theories).

Most relevant publications

1. The Effect of a Strong Stellar Flare on the Atmospheric Chemistry of an Earth-like Planet Orbiting an M dwarf. **Segura, A.**, Walcovicz, L. Meadows, V. Hawley, S. and Kasting, J. *Astrobiology* 10(7), 751-771, 2010. Cited by: 13.
2. Abiotic Formation of O₂ and O₃ in High-CO₂ Terrestrial Atmospheres. **A. Segura**, V. S. Meadows, J. F. Kasting, D. Crisp, M. Cohen. *Astronomy and Astrophysics*, Volume 472, Issue 2, pp.665-679, 2007. Cited by 18.
3. M stars as targets for terrestrial exoplanet searches and biosignature detection. John Scalo, Lisa Kaltenegger, **Antígona Segura**, Malcolm Fridlund, Ignasi Ribas, Petra Odert, Martin Leitzinger, Yu. N. Kulikov, John L. Grenfell, Heike Rauer, Maxim L. Khodachenko, F. Selsis, Carlos Eiora, Jim Kasting, and Helmut Lammer. *Astrobiology*, Volume 7, Issue 1, pp. 85-166. 2007. Cited by: 62.
4. Biosignatures from Earth-like planets around M dwarfs. **Antígona Segura**, James F. Kasting, Victoria Meadows, Martin Cohen, John Scalo, David Crisp, Rebecca A.H. Butler and Giovanna Tinetti. *Astrobiology*, 5(6), 706-725. 2005. Cited by: 63.
5. Ozone Concentrations and Ultraviolet Fluxes on Earth-like Planets Around Other Stars. **A. Segura**, K. Krelow, J. F. Kasting, D. Sommerlatt V. Meadows, D. Crisp, M. Cohen and E. Mlawer. *Astrobiology*, 3(4), 689-708. 2003. Cited by: 62.

Publications: Peer reviewed: 15. Book chapters:6. Proceedings: 5. Encyclopedia entries: 2.

Projects with funding: Principal researcher: 5 (local funding agencies). Collaborator: 1 with local funding, 5 with American Agencies funding.

Scientific Meetings: Invited talks: 7. Oral and poster presentations: 44. Organization: 4 local meetings, 2 sessions in the European Geophysical Union General Assembly, and member of one international meeting Scientific Organizing Comitee.

Thesis advised: Bachelor level: 2 concluded, 1 in process. Master level: 2 concluded. Ph.D. level: 1 in process.

Teaching: Bachelor level:4. Master level: 2. Research seminars (master level): 4.

January, 2012