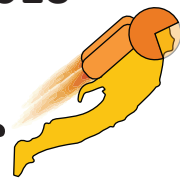


AbGradE Newsletter



for the informed interplanetary astrobiologist



Highlights

- AbGradE recruits new blood in La Palma
- Spanish hold on astrobiology continues with workshop in Madrid
- Upcoming schools to educate you
- Save the date! AbGradE's 10th birthday bash
- Get cozy this fall with AbGradE's selection of sci-fi books

Astrobiology featured picture

Third time's the charm

Over 60 early-career astrobiologists gathered on La Palma in May for a week of scientific talks, workshops and field trips

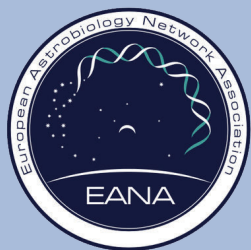
The canarian island of La Palma has not had it easy these past three years. The COVID-19 pandemic coupled with the Cumbre Vieja volcanic eruption put an enormous strain on the population. Rescheduled since 2020, the Biennial European Astrobiology Conference was finally able to take place as the island continues to recover. Prior to the conference, AbGradE and EPEC coorganized a three-day symposium and workshop for early-career researchers in astrobiology and planetary science. A much needed revival after years behind the screen, the event spurred up new collaborations, spawned new friendships, and saw several new members join the AbGradE committee. Together we trudged through the porous gravel of the new lava field amidst the sizzling and smoking of freshly formed friendships. We welcome our new members, salute our new president and look forward to the next generation of AbGradE events!

more info: abgrade.eu



AbGradE president Silvana Pinna

Upcoming Events



EANA
conference
September 19th-22nd
Madrid, Spain

Astrobiological Society of Britain Conference

September 7th-8th
Birkbeck, University of London, UK



German Astrobiology Society Conference
September 6th-8th
DLR, Berlin, Germany

Last chance to register!

September 18th
AbGrade
Workshop
in Madrid



EAI Summer School:
"Volcanism, plate tectonics,
hydrothermal vents and life"
October 10th-22nd

Azores, Portugal

EAI Workshop
"Life in the sub-surface"
October 22nd-28th
Azores, Portugal



Winter School
"Small bodies
of the solar
system and
extraterrestrial
samples"

Les Houches, France
February 2024

PhD/Postdoc projects Astrochemistry and JWST

Theme I:

Gas and ices evolution from molecular
clouds to planet-forming disks

Theme II:

Cosmic evolution of carbon: gas and PAHs

@various universities,
The Netherlands

PhD project

Coupling prebiotic chemistry to
membrane biophysics

@University of Texas Rio Grande
Valley, USA

Deadline extended



Please send us your
job advertisements!

Job openings ⚡

September 18th!

Postdoctoral Research Fellow

in Stellar Physics "Tracing the Impact of
Evolved Stars on the Galactic Chemical
Enrichment"

@University of Oslo

September 17th!

Postdoctoral Research Fellow

in planet formation at Globe Institute,
Centre for Star and Planet Formation

@University of Copenhagen

September 15th!

Postdoctoral Position at the

ALMA ARC node

@Leiden Observatory

Member Publications



The photochemical evolution of polycyclic aromatic hydrocarbons and nontronite clay on early Earth and Mars

Kopacz, N., Corazzi, M. A., Poggiali, G., von Essen, A., Kofman, V., Fornaro, T., van Ingen, H., Camprubi, E., King, H. E., Brucato, J. & ten Kate, I. L. (2023). *Icarus*, 394, 115437.

Growth and photosynthetic efficiency of microalgae and plants with different levels of complexity exposed to a simulated M-dwarf starlight

Battistuzzi, M., Cocola, L., Claudi, R., Poletto, L. & La Rocca, N. (2023). *Life*, 13, 8.

Oxygenic photosynthetic responses of cyanobacteria exposed under an M-dwarf starlight simulator: implications for exoplanet's habitability

Battistuzzi, M., Cocola, L., Claudi, R., Pozzer, A. C., Segalla, A., Simionato, D., Morosinotto, T., Poletto, L. & La Rocca, N. (2023). *Front. Plant Sci.* 14:1070359.

**SEND US YOUR RECENT PUBLICATIONS
FOR THE NEXT NEWSLETTER!**

Survivability of the lichen *Xanthoria parietina* in simulated Martian environmental conditions

Lorenz, C., Bianchi, E., Poggiali, G., Alemanno, G., Benesperi, R., Brucato, J. R., Garland, S., Helbert, J., Loppi, S., Lorek, A., Maturilli, A., Papini, A., de Vera, J. P. & Baqué, M. (2023). *Scientific Reports*, 13(1), 4893.



Spectroscopic investigations of fungal biomarkers after exposure to heavy ion irradiation

Cassaro, A., Pacelli, C., Baqué, M., Maturilli, A., Bottger, U., Fujimori, A., Moeller, R., de Vera, J. P. & Onofri, S. (2023). *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 123073.

An overview of lipid biomarkers in terrestrial extreme environments with relevance for Mars exploration

Finkel, P. L., Carrizo, D., Parro, V., & Sánchez-García, L. (2023). *Astrobiology*, 23(5), 563-604.

Electric sail mission expeditor, ESME: software architecture and initial ESTCube lunar cubesat E-sail experiment design

Palos, M., Janhunen, P., Toivanen, P., Tajmar, M., Iakubivskiy, I., Miccianì, A., Orsini, N., ... & Slavinskis, A. (2023). *Aerospace*, 10, 694.

Microbial protocols for spacecraft: 2. biocidal effects of Delrin and nylon in sealed compartments may enhance bioburden

Schuerger, A., Schwendner, P., & Tucker, R. (2023). *International Journal of Astrobiology*, 22(2), 100-110.

In other news...

SAVE THE DATE

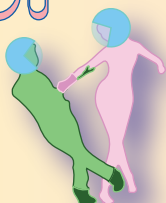


10 YEARS OF ABGRADE!

**WE WILL CELEBRATE THE ANNIVERSARY
WITH A SPECIAL EVENT**



ASTROBIOLOGY SPRING SCHOOL



**May 21-24, 2024
Florence, Italy**



**stay tuned for
more info!**





Fall reading list

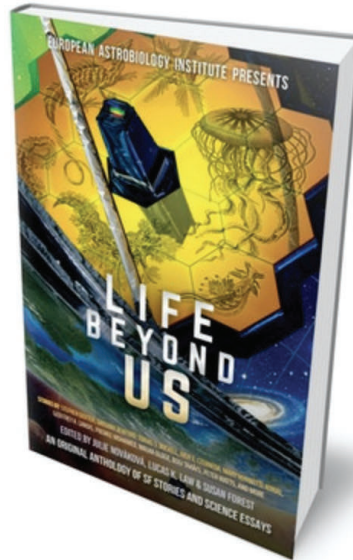


*AbGradE's
selection*

the European Astrobiology Institute presents

"LIFE BEYOND US"

**Buy it
now on
Amazon!**



Original SF stories
and science essays
from 52 leading
science fiction
authors and
scientists on alien
life here and beyond

NEVER ENOUGH SCI-FI

Star Maker by Olaf Stapledon
Hitchhiker's Guide to the Galaxy by Douglas Adams
The Time Machine by HG Wells
Contact by Carl Sagan
Alien Encounter by Dirk Schulze-Makuch
Nightfall by Isaac Asimov
The Foundation by Isaac Asimov
Annihilation by Jeff Vandermeer
Red Mars by Kim Stanley Robinson
The Sirens of Titan by Kurt Vonnegut
Childhood's End by Arthur C. Clarke
2001: A Space Odyssey by Cixin Liu
The Three Body Problem by Philip K. Dick
Do Androids dream of electric sheep? by Ursula K. Le Guin
The Left Hand of Darkness by Ursula K. Le Guin
Fisherman of the Inland Sea by Ray Bradbury
The Martian Chronicles by Andy Weir
The Martian by Frank Herbert
Dune by Mary Shelley
Frankenstein by Alfred Bester
The Stars my Destination by HG Wells
The Dream by HG Wells

