

*Posters will be on Display for the Entire Week.  
Presenters are Requested to be Present at Their Poster the Last Half-Hour Break of the Evening Break.*

**POSTER SESSION: EXOPLANETS FROM AN ORIGIN OF LIFE PERSPECTIVE AND  
THE SEARCH FOR LIFE AND ITS PRECURSORS IN THE SOLAR SYSTEM  
Price Center Ballroom East**

Gros C.

[Restarting Over: Alternative Evolutionary Pathways for Terrestrial Life on Oxygen Planets](#) [#4043]

Up to 30 billion planets with massive abiotic oxygen partial pressures have been estimated to exist in our galaxy. It is hence an important question, whether primordial oxygen would preempt abiogenesis together.

Vladilo G. Silva L. Murante G. Provenzale A.

[Constraining the Epoch of the Potential Emergence of Life in Exoplanets](#) [#4220]

We use a specially designed climate model to track the onset of conditions suitable for the emergence of life in Earth-like exoplanets. We apply this methodology to the best example of habitable Earth-size exoplanet orbiting a sun-like star.

Westall F. Zipfel J. Foucher F. Smith C. Russell S. Hickman-Lewis K. Viso M.

[Life on Mars: Returned Samples and Their Storage, the EURO-CARES Project](#) [#4096]

Definitive detection of life on Mars will likely require study of samples returned to Earth. The EURO-CARES project looks at curation and storage of such samples. We discuss the importance and use of different kinds of analogue materials in such a facility.