TOWARD SYNTHETIC PROTO-LIFE

Pascal, R.¹ and Pross, A.²

¹Laboratoire de Physique des Interactions Ioniques et Moléculaires, UMR 7345, Aix-Marseille Université, France ²Ben Gurion University of the Negev, Be'er Sheva, Israel pross@bgu.ac.il

The origin of life on Earth remains one of the most tantalizing scientific questions of all time. In this talk I will describe recent advances in a relatively new area of chemistry, systems chemistry, which attempts to uncover the physical–chemical principles underlying that remarkable transformation. A significant development has been the discovery that within the space of chemical potentiality there exists a largely unexplored kinetic domain, *dynamic kinetic chemistry*. That discovery has opened new doors toward the preparation of active materials with biological-like functionality, as well as offering new insights into the origin of life process. The path toward the chemical synthesis of rudimentary proto-life systems may finally be opening up.

ATTA Ey, - Ex, MARSK

Pascal, R.; Pross, A. J. Syst. Chem. 2019, 7, 1.