

## **Seminar 2016**

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### Seeking a plausible prebiotic solution



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The RNA World remains a popular and influential hypothesis in origins of life research. However, prebiotic chemists are still lacking a plausible prebiotic synthesis for RNA. We are investigating the possibility that RNA was preceded by a polymer that would have assembled more easily than RNA (i.e., pre-RNA), and that non-aqueous solvents could have facilitated prebiotic nucleic acid synthesis and replication. In support of these theories, recent experiments have revealed alternative nucleobases that readily form nucleosides with ribose, a property not observed with the nucleobases of extant RNA. Alternative solvents have also been identified that allow nucleoside phosphorylation from water-insoluble minerals, as well as the polymerase-free transfer of information from long nucleic acid duplexes.

**Friday November 18, 2016**

**2:30 PM**

**Laufer Center Lecture Hall 101**

*Host: Ken Dill*