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SEMINAR SERIES



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From the emergence of RNA to self-replication

Nucleic acids combine functional capacity and information storage, which are believed to have enabled the origin of life due to self-replication. The first genetic material must have evolved in a pre-Darwinian selection process on early Earth. Besides the four canonical building blocks we know that genomic material is highly modified but it is unclear when modified bases were initially involved in the molecular evolution process. They expand the chemical diversity of nucleic acids to enable complex functions such as gene regulation. Making modified building blocks systematically available for directed evolution experiments could lead to superior functionalities and might allow to recreate self-replication in the lab.

Host: Marina Rodnina



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zoom access data will be mailed before the seminar!

