Invited speaker

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Augmenting biology through de novo protein design

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16:15
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About the talk

It is today possible to generate a wide variety of stable protein folds from scratch, using rational and/or computational approaches. Another challenge is to move from what has been largely in vitro exercises to protein design in living cells. This talk will illustrate what is currently possible in this nascent field using de novo α-helical coiled-coil peptides as building blocks. The understanding, design methods, and current “toolkit” of de novo coiled coils developed in the Woolfson lab will be presented. The toolkit used to direct protein-protein interactions and build complex protein assemblies in bacterial cells will also be addressed.