

# Solvay Colloquium



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## *Folding of Proteins Emerging From the Ribosome During Translation*

Protein domains start to fold co-translationally, while they are being synthesized on the ribosome. Co-translational folding is vectorial; it starts in the confined space of the polypeptide exit tunnel of the ribosome and is modulated by the speed of translation. Defects in protein folding cause many human diseases; thus, understanding the co-translational folding is of eminent importance. We use rapid kinetics approaches to investigate co-translational folding of proteins and show that folding of the nascent protein proceeds through several compact, non-native conformations that forms within the peptide tunnel of the ribosome before exiting from the ribosome.

**Tuesday 11 December 2018 at 4.00 P.M.**

**COFFEE AND TEA WILL BE SERVED AT 3.45 P.M. IN FRONT OF THE SOLVAY ROOM**

### **SOLVAY ROOM**

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