



Centre for Biosystems Science and Engineering

S E M I N A R

at 4:00 PM on July 18, 2017

MRDG Seminar Hall

When Nature Stammers: Constraints and consequences of amino acid repeat emergence in proteins

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Proteins with amino acid homorepeats have the potential to be detrimental to cells and are often associated with human diseases. Why then are homorepeats prevalent in eukaryotic proteomes? Are these evolutionary errors or innovations? I will discuss our findings on how homorepeats act as distinct functional modules that are often retained in stringently regulated proteins and how their presence facilitates rapid exploration of the genotype-phenotype landscape, thereby contributing to fitness.