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Digital twins for modelling gene expression: applications to association studies and personalized drug recommendation

Thursday, 5 March 2026 11:45 (45 minutes)

Modern applications of AI technologies have enabled to predict the expression of genes genome-wide in a cell-type specific way using DNA sequence or epigenetic information. In this talk I will explain how these methods can be used to build digital twins for modelling gene expression and introduce novel applications for associating genes with disease and suggest personalised drug treatments.

Presenter: Prof. SCHULZ, Marcel (Goethe University and Uniklinikum Frankfurt)

Session Classification: Invited Talks