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# Clonal evolution in leukaemia: timing of immune escape and marker plasticity

*Liquid cancers have always been one of the primal examples of the application of the clonal evolution model by Nowell. Our group studied these cancers over the last few years, focusing on their behaviour under standard treatment scenarios (immunotherapy and targeted therapy). In this talk, I will overview two large applications of our computational studies on leukaemia evolution. I will concentrate on AMLs and CLLs, identifying the timing of immune evasion after allogenic transplant in AMLs, and determining the plasticity of a prognostic marker for CLLs. To reach these results, we developed advanced modelling and statistical inference frameworks, combining stochastic processes modelling from different angles, as well as Bayesian inference techniques applied to longitudinal whole-genome sequencing data.*



**Thursday**  
**March 5, 2026**



**U3-BIOS building**  
**room U3-09**



**4.30 pm**  
**to 5.30 pm**

**Host:**  
**Chiara Damiani**



The certificates of attendance for the seminar are also valid for the acquisition of CFU credits  
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