

NIEUWLAND LECTURE SERIES

Pre-Lecture Reception:

Wednesday, February 27 | 3:30 p.m. - 4:00 p.m. | Jordan Galleria

Nieuwland Lecture:

Wednesday, February 27 | 4 p.m. - 5 p.m. | 105 Jordan Hall



Anna Marciniak-Czochra, Ph.D.

Professor of Applied Mathematics and head of the Applied Analysis and Modelling in Biosciences research group at the Institute of Applied Mathematics, Interdisciplinary Center of Scientific Computing, and BIOQUANT Center, Heidelberg University.

Math Hematology: Can simple models help understand a patient's disease?

Marciniak-Czochra will present a mathematical approach toward understanding the dynamics of acute leukemias. She will propose a range of mathematical models describing evolution of a multiclonal and hierarchical cell population to investigate the impact of mutation and selection on the course of the disease. Model-based interpretation of clinical data of individual patients allows estimating parameters that cannot be measured directly, which may have clinical implications for future treatment and follow-up strategies.



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