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Title: A mathematical approach to the aging of tissues

Abstract:

Animal models allow for a better understanding of diseases and provide important insights in the development of effective medical treatments. However in most experiments animals are juvenile and do not present some of the features characterizing the tissues and the organs of elderly patients. As a consequence the efficacy of treatments can be underestimated or overestimated. Mathematical models assume then the role of crucial coadjutants, because they provide a fine tuning of those aging characteristics. In this talk we will present several models that illustrate this central role.