

Dipartimento di Biotecnologie e Bioscienze – UNIMIB

giovedì 23 giugno, 2022, ore 16:30, aula U3-04 / Webex

Functional roles of deubiquitinating enzymes in normal and malignant hematopoiesis

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Abstract: Deubiquitinating enzymes (DUBs) are specialized proteases that remove ubiquitin from substrates, maintaining protein homeostasis and signalling in cells. DUB deregulation affects hematopoietic stem cell (HSC) maintenance.

However, thorough knowledge of DUB function during hematopoiesis is lacking. Recently, we interrogated DUB dependency in mouse hematopoietic progenitors employing in vivo siRNA screens and uncovered multiple DUBs potentially required for HSC maintenance. Genetic targeting revealed USP15 as a critical DUB in safeguarding genome integrity in HSCs and leukemia cells. We will discuss these data together with advances encouraging the development of DUBs as therapeutic targets.

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