HDACs as regulators of T cell-mediated immunity in health and disease

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SFB F70 Seminar – ONLINE

Post-translational modifications on and beyond histones, in health and cancer: a proteomic view

Tiziana Bonaldi, PhD

Associate Professor, Group Leader

European Institute of Oncology, Milan, Italy

Wednesday, 16th of June, 2021, 16:00-17:00 Uhr

Location: Online seminar - Zoom (registration link)

Host: Alice Taliento

Biosketch

Tiziana Bonaldi is Tenured Group Leader at the European Institute of Oncology (IEO) in Milan, where she directs the "Cancer epiproteomics and gene expression regulation" since 2008. Following a PhD in Molecular and Cellular Biology at the Dibit, San Raffaele Institute in Milan, she did a first postdoc at the LMU in Munich, in A. Imhof's lab, where she started developing MS methods to study the histone code; then she carried out a second postdoc in the M. Mann's group at the MPI of Biochemistry in Martinsried to strengthen her expertise in quantitative proteomics. She received the "Armenise-Harvard Career Development Award" in 2007 and the "International Inner Wheel for Women, for scientific achievements" in 2010. In 2014, she successfully completed her tenure-track and was appointed as Associate Professor at IEO. Tiziana Bonaldi group effort is devoted to conjugating mass spectrometry (MS) –based proteomics to the investigation of the molecular mechanisms underpinning adaptive response in cancer, linked to epigenetic regulation of gene expression. Her research has contributed both technological innovations and original findings in MS-analysis of chromatin composition and modifications, on histones and beyond.

Selected recent publications

- Noberini and Bonaldi. Epigenetic drug target deconvolution by mass spectrometry-based technologies, Nat Struct Mol Biol, 2020
- Musiani et al. Proteomics profiling of arginine methylation defines PRMT5 substrate specificity. Sci Signal, 2019
- Soldi M et al. Chromatin proteomics reveals novel combinatorial histone modification signatures that mark distinct subpopulations of macrophage enhancers. Nucleic Acids Res, 2017
- Mihailovic M et al. miR-17-92 fine-tunes MYC expression and function to ensure optimal B cell lymphoma growth. Nat Commun, 2015