



POST-DOCTORAL POSITION

DNA DAMAGE RESPONSE & TELOMERE MAINTENANCE

**DIEGO BONETTI's lab - UNIVERSITY OF MILANO-
BICOCCA, MILANO, ITALY**

We are looking for an highly motivated candidate to join our research group. We are interested in deciphering how eukaryotic cells maintain genome stability by exploiting yeast *Saccharomyces cerevisiae* as a model organism. Two main mechanisms ensure genome stability: the response to alterations/lesions in DNA (DDR) and maintenance of telomeres, unique regions located at the end of chromosomes. When these processes fail, in fact, genome instability arises and it pushes towards the development of several pathologies, especially cancer.

Bonetti D, Rinaldi C, Vertemara J, Notaro M, Pizzul P, Tisi R, Zampella G, Longhese MP (2019). DNA binding modes influence Rap1 activity in the regulation of telomere length and MRX functions at DNA ends. **Nucleic Acids Res** doi: 10.1093/nar/gkz1203

Graf M, **Bonetti D**, Lockhart A, Serhal K, Kellner V, Maicher A, Jolivet P, Teixeira MT, Luke B (2017). Telomere Length Determines TERRA and R-Loop Regulation through the Cell Cycle. **CELL** Jun 29;170(1):72-85.e14. doi: 10.1016/j.cell.2017.06.006

Bonetti D, Villa M, Gobbin E, Cassani C, Tedeschi G, Longhese MP (2015). Escape of Sgs1 from Rad9 inhibition reduces the requirement for Sae2 and functional MRX in DNA end resection. **EMBO Reports** Mar;16(3):351-61. doi: 10.15252/embr.201439764

CANDIDATE REQUIREMENTS

- PhD title
- Curious, open minded and interested in the topic
- Prior research experience on yeast cell biology is a "plus", but it is not mandatory

JOB DESCRIPTION

Starting date : as soon as possible from October 1st 2019 / 1-year contract (renewable)

Salary: according to University of Milano-Bicocca pay scale

HOW TO APPLY

Please send your full application (CV, motivation letter, publications list) to:

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