

## Dipartimento di Biotecnologie e Bioscienze – UNIMIB

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# The DNA damage response: old story, new players

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**Abstract:** Since the term “DNA repair” was introduced almost sixty years ago, several aspects of the DNA damage response (DDR) have been identified and detailed. This knowledge has led to a deeper understanding of how a fundamental cellular process works and to the development of DDR-targeting therapies, but many aspects of the DDR are still puzzling. Every year new players are identified, including RNAs, RNA-binding proteins (RBPs) and processes like transcription and liquid-liquid phase separation. In this seminar I will present our findings on a specific family of RBPs, the FET proteins, and I will go through the approaches that we use in the lab to study their role in the DDR.

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