Postdoctoral position in DNA damage response

A two-year postdoctoral position supported by the Labex EpiGenMed (http://www.epigenmed.fr/) is available at the "*Institute of Human Genetics of Montpellier (France)"* (www.igh.cnrs.fr).

Our laboratory is devoted at understanding the molecular mechanisms of the DNA damage response (DDR) and their relationships with malignant transformation. The DDR is critical for maintenance of genome integrity. We have recently identified a novel DDR-dependent function for the DDX19 RNA helicase in resolving conflicts between replication and transcription, namely R-loops. The aims of this work are to unravel the molecular mechanisms by which DDX19 relieves replication stress and how this regulation protects cells from genomic instability. This will be achieved by the use of *in vitro* and *in vivo* strategies involving biochemistry, molecular genetics, genome-wide approaches as well as analysis of subcellular localization by immunofluorescence and live cell imaging .

Highly motivated candidates with a Ph.D., or equivalent, and a strong background in biochemistry and cellular and molecular biology are encouraged to apply. Please forward a complete CV including contact details of three referees to domenico.maiorano@igh.cnrs.fr
(Lab Web page: http://www.igh.cnrs.fr/equip/domenico.maiorano/)

Recent relevant publications

Hodroj D, Serhal K, Maiorano D. Ddx19 links mRNA nuclear export with progression of transcription and replication and suppresses genomic instability upon DNA damage in proliferating cells. Nucleus. 2017 Sep 3;8(5):489-495. PMID: 28696814.

Hodroj D, Recolin B, Serhal K, Martinez S, Tsanov N, Abou Merhi R, Maiorano D. An ATR-dependent function for the Ddx19 RNA helicase in nuclear R-loop metabolism. EMBO J. 2017 May 2;36(9):1182-1198. PMID: 28314779.