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DIPARTIMENTO DI BIOLOGIA

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DEGLI STUDI
DI PADOVA

Postdoc position

Investigating deoxynucleotide metabolic alterations as a source of genomic instability in human induced pluripotent stem cells

Department of Biology, University of Padua, Italy

A two years postdoctoral position (20,000Euros/year) is available, starting immediately up until January 2022, in the field of pluripotent stem cell metabolism at the Department of Biology under the supervision of Prof. Chiara Rampazzo and Prof. Graziano Martello.

The project aim is to investigate cytosolic and mitochondrial deoxynucleotide (dNTP) metabolism in human induced pluripotent stem cells (iPSCs) to highlight how *in vitro* culture conditions or reprogramming protocols may affect dNTP pool concentrations and composition that can promote nuclear and mitochondrial genome instability. Understanding the causes of genome mutations and aberrations in iPSCs will help to optimize culture conditions improving the use of human iPSCs for disease modeling and regenerative medicine.

The research project employs multidisciplinary approaches in the area of nucleotide metabolism, cell cycle, DNA damage, RNA/protein expression, mtDNA in pluripotent stem cell cultures.

The candidate should have a PhD degree, or equivalent research experience, be highly motivated and have previous research experience in molecular/cell biology and biochemistry.

Interested candidates should send a cover letter with curriculum vitae and contact information for professional references to:

Prof. Chiara Rampazzo and Prof. Graziano Martello

Dipartimento di Biologia, Università di Padova

Email: chiara.rampazzo.1@unipd.it ; graziano.martello@unipd.it