

Short CV – Minoo Rassoulzadegan

Overview of academic education and positions:

- Group Leader since 1990 in**
Genetic and epigenetic heredity in mice
Teaching: Epigenetic heredity and manipulating mouse embryos
Member of EMBO elected (2009)
Chevalier of the Légion d'Honneur (2016)
- 2004-2011 Director of Inserm Research Units 636, University of Nice
1986- Director de Research (CNRS)
Present
1981-1985 Chargé de Research (CNRS)
- 1979-1981 Attaché de Recherche,
- Sept.1981 **Year of PhD defense**
1976-1978 **Doctor in Sciences** under supervision of Pr. François Cuzin
1976 **Diplôme d'Etude Approfondie** (DEA) Institut Pasteur Paris
1972-1975 **Master in Biochemistry** University Nice France
1971 **Bachelor in Biology** Iran

Most relevant current projects and successful grants:

National grant: Paramutation in mice ANR-2007-2010-Epigenetic and pathological diseases 2009-2013-Plan Cancer A role of Dnmt2 in cancer development and 2013-2016.

Few last relevant publications:

-Sperm RNA: Quo vadis?

Bohacek J, **Rassoulzadegan M**.

Semin Cell Dev Biol. 2019 Jul 11. pii: S1084-9521(18)30282-9. doi: 10.1016/j.semcdb.2019.07.005. Review.

-Sperm RNA code programmes the metabolic health of offspring.

Zhang Y, Shi J, **Rassoulzadegan M**, Tuorto F, Chen Q.

Nat Rev Endocrinol. 2019 Aug;15(8):489-498. doi: 10.1038/s41574-019-0226-2. Epub 2019 Jun 24. Review.

-DNA-RNA Hybrid (R-Loop): From a Unified Picture of the Mammalian Telomere to the Genome-Wide Profile.

Rassoulzadegan M, et al. Cells. 2021. PMID: 34205454.

-Genome-Wide Distribution of Nascent Transcripts in Sperm DNA, Products of a Late Wave of General Transcription. Kianmehr

L, et al. Cells. 2019. PMID: 31623338.

-The Characterization of Sex Differences in Hypoglycemia-Induced Activation of HPA Axis on the Transcriptomic Level. Taheri

S, Karaca Z, Rassoulzadegan M, Mehmetbeyoglu E, Zararsiz G, Sener EF, Bayram KK, Tufan E, Sahin MC, Marasli MK, Memis M, Canatan H, Ozturk F, Tanriverdi F, Unluhizarci K, Kelestimur F. Cell Mol Neurobiol. 2021 Feb 5. doi: 10.1007/s10571-021-01043-0. Online ahead of print. PMID: 33544274

-Ozkul & al. A heritable profile of six miRNAs in autistic patients and mouse models. 8 June 2020
Scientific Reports.

-H. Ghanbarian *et al.*, Small RNA-directed epigenetic programming of embryonic stem cell cardiac differentiation. *Sci Rep*7, 41799 (2017).

-M. Rassoulzadegan, F. Cuzin, Epigenetic heredity: RNA-mediated modes of phenotypic variation. *Ann N Y Acad Sci*1341, 172-175 (2015).

-V. Grandjean *et al.*, RNA-mediated paternal heredity of diet-induced obesity and metabolic disorders. *Sci Rep*5, 18193 (2015).

-R. Liebers, M. Rassoulzadegan, F. Lyko, Epigenetic regulation by heritable RNA. *PLoS Genet*10, e1004296 (2014).

-J. Kiani *et al.*, RNA-mediated epigenetic heredity requires the cytosine methyltransferase Dnmt2. *PLoS Genet*9, e1003498 (2013).