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A 3-years postdoctoral position funded by NIH and the Conseil de la Région Aquitaine is currently available in the laboratory of Jean-Paul di Rago at the Institute of Cellular Biochemistry and Genetics from CNRS and Bordeaux University. The project aims at evolving synthetic yeast strains adapted to express mitochondrial genes from nuclear DNA (allotopic expression), in order to better define the forces underlying mitochondrial genome evolution and test the feasibility of allotopic expression as a therapeutic strategy for mtDNA diseases. This project will be performed in collaboration with Prof. L.M. Steinmetz (Stanford, EMBL) using an interdisciplinary approach of yeast genetics, functional genomics, molecular biology and cell biology, and biochemistry. The ideal candidate will have a solid background in mitochondrial research. Fresh PhDs are encouraged to apply. Please send a CV, a letter of interest, and the names and contact information of three references to: jp.dirago@ibgc.cnrs.fr. Deadline for application: 8th June 2017

Recent publications of J.-P. di Rago's lab

Guimier A, Gordon CT, Godard F, Ravenscroft G, Oufadem M, Vasnier C, Rambaud C, Nitschke P, Bole-Feysot C, Masson C, Dauger S, Longman C, Laing NG, Kugener B, Bonnet D, Bouvagnet P, Di Filippo S, Probst V, Redon R, Charron P, Rötig A, Lyonnet S, Dautant A, de Pontual L, di Rago JP*, Delahodde A*, Amiel J*. (2016) Biallelic PPA2 Mutations Cause Sudden Unexpected Cardiac Arrest in Infancy. Am J Hum Genet. 2016 Aug 10. [Epub ahead of print] PMID: 27523598

Sellem CH*, di Rago JP*, Lasserre JP, Ackerman SH, Sainsard-Chanet A. (2016) Regulation of Aerobic Energy Metabolism in Podospora anserina by Two Paralogous Genes Encoding Structurally Different c-Subunits of ATP Synthase. PLoS Genet. 2016 Jul 21;12(7):e1006161.

Aaltonen MJ, Friedman JR, Osman C, Salin B, di Rago JP, Nunnari J, Langer T, Tatsuta T. (2016) MICOS and phospholipid transfer by Ups2-Mdm35 organize membrane lipid synthesis in mitochondria. J Cell Biol. 2016 213(5):525-34. 30

Aiyar RS, Bohnert M, Duvezin-Caubet S, Voisset C, Gagneur J, Fritsch ES, Couplan E, von der Malsburg K, Funaya C, Soubigou F, Courtin F, Suresh S, Kucharczyk R, Evrard J, Antony C, St Onge RP, Blondel M, di Rago JP, van der Laan M, Steinmetz LM. (2014) Nat Commun. 2014 Dec 18;5:5585

Frechin M, Enkler L, Tetaud E, Laporte D, Senger B, Blancard C, Hammann P, Bader G, Clauder-Münster S, Steinmetz LM, Martin RP, di Rago JP*, Becker HD* (2014). Expression of nuclear and mitochondrial genes encoding ATP synthase is synchronized by disassembly of a multisynthetase complex. Mol Cell. 56:763-76

Ostojić J., Panozzo C., Lasserre JP., Nouet C., Courtin F., Blancard C., di Rago JP* & Dujardin G*. (2013). The energetic state of mitochondria modulates complex III biogenesis through the ATP-dependent activity of Bcs1. *Cell Metab*. **18** (4) : 567-77.