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Research appointments

2020-present: Research Associate at the Laboratory of Lluís Ribas de Pouplana. Institute for Research in Biomedicine (IRB Barcelona). Barcelona; Spain.

2012-2020: Postdoctoral fellow at the Laboratory of Lluís Ribas de Pouplana. Institute for Research in Biomedicine (IRB Barcelona). Barcelona; Spain.

- 2012-2014: Marie Curie fellow.
- 2014-2016: Juan de la Cierva fellow.

Academic formation

BSc/MSc (2002-2007): Biologist. Cordoba National University; Argentina.
Undergraduate student at the Laboratory of Beatriz Alicia García. Department of Medical Sciences, Cordoba National University. Cordoba; Argentina.

PhD (2008-2011): Doctor of Philosophy. University of Cambridge; UK.
PhD student at the Laboratory of Michael Gait. MRC Laboratory of Molecular Biology (MRC LMB). Cambridge; UK.

- 2008-2011: Cesar Milstein scholar.

Selected publications

1) Martí E.*; **Torres A.G.***. 'Towards understanding extracellular tRNA biology'. 2021. **Front Mol Biosci**. (in press: doi: 10.3389/fmolb.2021.662620).

*co-corresponding authors.

2) Ros E.*; **Torres A.G.***; Ribas de Pouplana L. 'Learning from nature to expand the genetic code'. 2020. **Trends Biotech**. (in press: doi: 10.1016/j.tibtech.2020.08.003).

*co-first authors

3) **Torres A.G.** 'Enjoy the silence: nearly half of human tRNA genes are silent'. 2019. **Bioinform Biol Insights**. 13: 1177932219868454.

4) **Torres A.G.**; Reina O.; Stephan-Otto Attolini C.; Ribas de Pouplana L. 'Differential expression of human tRNA genes drives the abundance of tRNA-derived fragments'. 2019. **Proc Natl Acad Sci USA**. 116(17): 8451-8456.

5) Rafels-Ybern À.*; **Torres A.G.***; Camacho N.; Herencia Roperó A.; Roura Frigolé H.; Wulff T.F.; Raboteg M.; Bordons A; Grau Bove X.; Ruiz Trillo I.; Ribas de Pouplana L. 'The expansion of inosine at the wobble position of tRNAs, and its role in the evolution of proteomes'. 2019. **Mol Biol Evol**. 36(4): 650-662.

*co-first authors

6) Yang P.; Beltramo D.M.; Ribas de Pouplana L.; Soria N.W.; **Torres A.G.** 'Loss of the *tRNA^{Lys}_{CUU}* encoding gene, *Chr-11 tRNA-Lys-CUU*, is not associated to Type 2 diabetes mellitus'. 2019. **Biomark Med.** 13(4): 259-266.

7) **Torres A.G.***; Wulff T.F., Rodríguez-Escribà M.; Camacho N.; Ribas de Pouplana L*. 'Detection of inosine on transfer RNAs without a reverse transcription reaction'. 2018. **Biochemistry.** 57(39): 5641-5647.

*co-corresponding authors.

8) Wulff T.F.; Argüello R.J.; Jordàn M.M.; Roura Frigolé H.; Hauquier G.; Filonava L.; Camacho N.; Gatti, E.; Pierre P.; Ribas de Pouplana L.*; **Torres, A.G***. 'Detection of a subset of posttranscriptional transfer RNA modifications in vivo with a restriction fragment length polymorphism-based method'. 2017. **Biochemistry.** 56(31): 4029-4038.

*co-corresponding authors.

9) **Torres A.G.**; Piñeyro D.; Rodríguez Escribà M.; Camacho N.; Reina O.; Saint-Léger A.; Filonava L.; Batlle E.; Ribas de Pouplana L. 'Inosine modifications in human tRNAs are incorporated at the precursor tRNA level'. 2015. **Nucleic Acids Res.** 43(10): 5145-5157.

10) **Torres A.G.**; Piñeyro D.; Filonava F.; Stracker T.H.; Batlle E.; Ribas de Pouplana L. 'A-to-I editing on tRNAs: biochemical, biological and evolutionary implications'. 2014. **FEBS Lett.** 588(23): 4279-4286.

11) **Torres A.G.**; Batlle E.; Ribas de Pouplana L. 'Role of tRNA modifications in human diseases'. 2014. **Trends Mol Med.** 20(6): 306-314.

12) **Torres A.G.**; Gait M.J. 'Exploiting cell surface thiols to enhance cellular uptake'. 2012. **Trends Biotech.** 30(4): 185-190.

13) **Torres A.G.**; Fabani M.M.; Vigorito E.; Williams D.; Al-Obaidi N.; Wojciechowski F.; Hudson R.H.E.; Seitz O.; Gait M.J. 'Chemical structure requirements and cellular targeting of microRNA-122 by peptide nucleic acids anti-miRs'. 2012. **Nucleic Acids Res.** 40(5): 2152-2167.

14) **Torres A.G.**; Threlfall R.N.; Gait M.J. 'Potent and sustained cellular inhibition of miR-122 by lysine-derivatized peptide nucleic acids (PNA) and phosphorothioate locked nucleic acid (LNA)/2'-O-methyl (OMe) mixmer anti-miRs in the absence of transfection agents'. 2011. **Artif DNA PNA XNA.** 2(3): 71-78.

15) **Torres A.G.**; Fabani M.M.; Vigorito E.; Gait M.J. 'miRNA fate upon targeting with anti-miRNA oligonucleotides as revealed by an improved Northern-blot-based method for miRNA detection'. 2011. **RNA.** 17(5): 933-943.

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