

Imane Moutkine

Research Assistant

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EXPERIENCE

- Since Oct 2021** **Specialist**
1U24DK116214- Illuminating Druggable Dark Matter- PI: M.T. McManus
Molecular biology Specialist leading the ViraCore research lab at the institute and collaborating to develop a high-throughput CRISPR imaging pipeline
University of California, San Francisco, San Francisco, CA, USA
- From Jan 2009 **Senior Research Assistant (permanent position)**
To Oct 2021 Inserm U1270 – Institut du Fer à Moulin - PI: L. Maroteaux
Molecular biology Specialist working for both the team “Serotonin, Microglia and Plasticity” and collaborating with all teams in the institute
Institut du Fer à Moulin, Paris, France
- From Dec 2006 **Research Assistant**
To Dec 2008 Inserm U711 Neurons/Glia Interaction - PIs: C. Lubetzki and J-L Thomas
Role of Class III Semaphorins in Remyelination
Role of VEGFR-3 in Adult Neurogenesis
Institut du Cerveau et de la Moelle (ICM), Paris, France
- From Nov 2005 **Research Assistant**
To Nov 2006 Inserm U574 Hereditary Nephropathies and Kidney Development - PI: C. Antignac
Molecular and Cellular Function of Nephrocystins
Institut Imagine, Paris, France

EDUCATION

- 2005** **M.S in Cellular Engineering - Institut National Polytechnique de Lorraine, France**
Postgraduate Training at Yale School of Medicine (7months) - New Haven, USA
Department of Internal Medicine- Section of Infectious Diseases - PI: B. Kazmierczak
Thesis: Role of Autophagy in Pseudomonas Aeruginosa/Host Cell Interactions
- 2003** **B.S Cell Biology and Physiology - University of Tours, France**
- 2002** **AA degree in Biological Analysis - Tours, France**
Internship in Necker Hospital, Paris, France (3months)
Inserm U574 Hereditary Nephropathies and Kidney Development - PI: C. Antignac
Thesis: Subcellular Localization of Podocin Mutants

SKILLS

Molecular Biology: Cloning (viral vectors, Gateway system, In-Fusion cloning), DNA/RNA extractions, PCR, real-Time qPCR (SybrGreen and TaqMan), RNA interference (shRNA/siRNA), *in situ* hybridization

Biochemistry: Western blot, immunoprecipitation, BRET, inositol Phosphate assay (HTRF), radioactive ligand binding assay

Cell Culture: HEK293, COS, HeLa, neurospheres from mouse postnatal SVZ, microglia primary culture, transfections, lentivirus/AAV transduction...

Informatics: Microsoft Office, Sequencher, Primer-Blast, Ape, Ensembl, Prism, Galaxy

Lab organization: Technical management of students, postdocs and researchers, instructional laboratory preparation, stockroom upkeep, ordering and inventory, routine equipment maintenance

Languages:

- English: Fluent
- French: Native language

Other:

- Member of the Inserm Works council – Treasurer (10 000euros budget)
- Love travelling, hiking, cooking (especially Moroccan food) and reading about History, Politics and Sociology.
- Also a Tweeter addict!

SELECTED PUBLICATIONS AMONG 22

Benhadda A, Quentin E, **Moutkine I**, Chanrion B, Rousseau M, Marin P, Levi S, Maroteaux L. Serotonin 2B Receptor by Interacting with NMDA Receptor and CIPP Protein Complex May Control Structural Plasticity at Glutamatergic Synapses. ACS Chem Neurosci. 2021 Apr

Moutkine I, Collins EL, Béchade C, Maroteaux L. Evolutionary considerations on 5-HT(2) receptors. Pharmacol Res. 2019 Feb

Heubl M, Zhang J, Pressey JC, Al Awabdh S, Renner M, Gomez-Castro F, **Moutkine I**, Eugène E, Rousseau M, Kahle KT, Poncer JC, Lévi S. GABA(A) receptor dependent synaptic inhibition rapidly tunes KCC2 activity via the Cl(-)-sensitive WNK1 kinase. Nat Commun. 2017 Nov

Moutkine I, Quentin E, Guiard BP, Maroteaux L, Doly S. Heterodimers of serotonin receptor subtypes 2 are driven by 5-HT(2C) protomers. J Biol Chem. 2017 Apr

Lecca S, Pelosi A, Tchenio A, **Moutkine I**, Lujan R, Hervé D, Mameli M. Rescue of GABAB and GIRK function in the lateral habenula by protein phosphatase 2A inhibition ameliorates depression-like phenotypes in mice. Nat Med. 2016 Mar

Meye FJ, Valentinova K, Lecca S, Marion-Poll L, Maroteaux MJ, Musardo S, **Moutkine I**, Gardoni F, Haganir RL, Georges F, Mameli M. Cocaine-evoked negative symptoms require AMPA receptor trafficking in the lateral habenula. Nat Neurosci. 2015 Mar

Piaton G, Aigrot MS, Williams A, Moyon S, Tepavcevic V, **Moutkine I**, Gras J, Matho KS, Schmitt A, Soellner H, Huber AB, Ravassard P, Lubetzki C. Class 3 semaphorins influence oligodendrocyte precursor recruitment and remyelination in adult central nervous system. Brain. 2011 Apr

Delous M, Baala L, Salomon R, Laclef C, Vierkotten J, Tory K, Golzio C, Lacoste T, Besse L, Ozilou C, **Moutkine I**, Hellman NE, Anselme I, Silbermann F, Vesque C, Gerhardt C, Rattenberry E, Wolf MT, Gubler MC, Martinovic J, Encha-Razavi F, Boddaert N, Gonzales M, Macher MA, Nivet H, Champion

G, Berthélemé JP, Niaudet P, McDonald F, Hildebrandt F, Johnson CA, Vekemans M, Antignac C, Rüther U, Schneider-Maunoury S, Attié-Bitach T, Saunier S. The ciliary gene RPGRIP1L is mutated in cerebello-oculo-renal syndrome (Joubert syndrome type B) and Meckel syndrome. *Nat Genet.* 2007 Jul

Roselli S, **Moutkine I**, Gribouval O, Benmerah A, Antignac C. Plasma membrane targeting of podocin through the classical exocytic pathway: effect of NPHS2 mutations. *Traffic.* 2004 Jan