

Florence Figeac
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Education

Feb 2010 PhD Thesis, BFA/CNRS B2PE Unit (Head: PORTHA, B) - Paris Diderot University Paris, France. «Implication of Wnt/ β -catenin signalling pathway in the regulation of growth and regeneration of pancreatic β cells.» (Supervisor: Jamileh MOVASSAT)

2005 MASTER (Predoctoral degree in cellular Biology: Sciences des Aliments et Nutrition), University Victor Segalen, Bordeaux, France

2003 Licence (Bachelor's degree in Biochemistry, Molecular Biology and Genetic), University Victor Segalen, Bordeaux, France

September 2014 Certificate for the Laboratory Animal Science part I and part II
Language: French, English, Danish (PD3 validated)

Employment

2008-2009 Teaching assistant in Paris Diderot University, Paris, in first year medical school and undergraduate years (L2 and L3) in biology and physiology (96h)

2010-2014 Postdoctoral position in Stem cell Biology and Regeneration center in INSERM Unit U955, Faculty of medicine, Créteil, France

2014- Postdoctoral position at the KMEB (Head-Pr KASSEM, M) Syddansk Universitet, Odense, Denmark

LIST OF PUBLICATIONS

1-ARTICLES

- 1- Figeac F*, Andersen DC, Nipper Nielsen CA, Ditzel N, Sheikh SP, Skjødt K, Kassem M, Jensen CH, Abdallah BM. Antibody-based inhibition of circulating DLK1 protects from estrogen deficiency-induced bone loss in mice. *Bone*. 110:312-320, 2018.
- 2- Tencerova M, Figeac F* (Co-first), Ditzel N, Taipaleenmäki H, Nielsen TK, Kassem M. High-Fat Diet-Induced Obesity Promotes Expansion of Bone Marrow Adipose Tissue and Impairs Skeletal Stem Cell Functions in Mice. *J Bone Miner Res*. doi: 10.1002/jbmr.3408, 2018.
- 3- Abdallah BM, Figeac F*, Larsen KH, Ditzel N, Keshari P, Isa A, Jafari A, Andersen TL, Delaisse JM, Goshima Y, Ohshima T, Kassem M. CRMP4 Inhibits Bone Formation by Negatively Regulating BMP and RhoA Signaling. *J Bone Miner Res*. 32(5):913-926, 2017.
- 4- Yiou R, Mahrouf-Yorgov M, Trébeau C, Zanaty M, Lecointe C, Souktani R, Zadigue P, Figeac F, Rodriguez AM. Delivery of human Mesenchymal Adipose-Derived Stem Cells restores multiple urological dysfunctions in a rat model mimicking radical prostatectomy damages through Tissue-Specific Paracrine Mechanisms. *Stem Cells*. 34(2):392-404, 2016.
- 5- Figeac F*, Dagouassat M, Mahrouf-Yorgov M, Le Gouvello S, Trébeau C, Sayed A, Stern JB, Validire P, Dubois-Randé JL, Boczkowski J, Mus-Veteau I, Rodriguez AM. 2015. Lung Fibroblasts Share Mesenchymal Stem Cell Features Which Are Altered in Chronic Obstructive Pulmonary Disease via the Overactivation of the Hedgehog Signaling Pathway. *PLoS One*. 10(3):e0121579. eCollection.
- 6- Figeac F*, Lesault PF, Le Coz O, Damy T, Souktani R, Trébeau C, Schmitt A, Ribot J, Mounier R, Guguin A, Manier C, Surenaud M, Hittinger L, Dubois-Randé JL and Rodriguez AM. Nanotubular crosstalk with distressed cardiomyocytes stimulates the paracrine repair function of mesenchymal stem cells. *Stem Cells*. 32(1):216-30, 2014.
- 7- Khodari M, Souktani R, Le Coz O, Bedretdinova D, Figeac F, Acquistapace A, Lesault PF, Cognet J, Rodriguez AM, Yiou R. Monitoring of erectile and urethral sphincter dysfunctions in a rat model mimicking radical prostatectomy damage. *J Sex Med*. 9(11):2827-37, 2012.
- 8- Figeac F*, Ilias A, Bailbe D, Portha B, Movassat J. Local in vivo GSK3 β knockdown promotes pancreatic β cell and acinar cell regeneration in 90% pancreatectomized rat. *Mol Ther*. 20(10):1944-52, 2012
- 9- Acquistapace A, Bru T, Lesault PF, Figeac F, Coudert AE, le Coz O, Christov C, Baudin X, Auber F, Yiou R, Dubois-Randé JL, Rodriguez AM. Human mesenchymal stem cells reprogram adult cardiomyocytes toward a progenitor-like state through partial cell fusion and mitochondria transfer. *Stem Cells*. 29(5):812-24, 2011.
- 10- Figeac F*, Uzan B, Faro M, Chelali N, Portha B, Movassat J. Neonatal growth and regeneration of beta-cells are regulated by the Wnt/ β -catenin signaling in normal and diabetic rats. *Am J Physiol Endocrinol Metab*, 298(2):E245-56, 2010.
- 11- Lacraz G, Figeac F, Movassat J, Kassis N, Portha B. Diabetic GK/Par rat beta-cells are spontaneously protected against H₂O₂-triggered apoptosis. A cAMP-dependent adaptive response. *Am J Physiol Endocrinol Metab*, 298(1):E17-27, 2010.
- 12- Lacraz G, Figeac F, Movassat J, Kassis N, Coulaud J, Galinier A, Leloup C, Bailbé D, Homo-Delarche F, Portha B.

Diabetic beta-cells can achieve self-protection against oxidative stress through an adaptive up-regulation of their antioxidant defenses. PLoS One, 4(8):e6500, 2009.

13-Uzan B, Figeac F, Portha B, Movassat J. Mechanisms of KGF mediated signaling in pancreatic duct cell proliferation and differentiation. PLoS One, 4(3):e4734, 2009.

2-BOOK CHAPTERS

Portha B, Lacraz G, Chavey A, Figeac F, Fradet M, Tourrel-Cuzin C, Homo-Delarche F, Giroix MH, Bailbé D, Gangnerau MN, Movassat J. 2010. Islet structure and function in the GK rat. Adv Exp Med Biol ;654:479-500. Review.