

## Publications 2010-2016

Ultrastructural localization and distribution of Nardilysin in mammalian male germ cells. Segretain D, Gilleron J, Bacro JN, Di Marco M, Carette D, Pointis G. *Basic Clin Androl.* 2016 Apr;5:26:5.

Physiological roles of connexins and pannexins in reproductive organs. Kibschull M, Gellhaus A, Carette D, Segretain D, Pointis G, Gilleron J. *Cell Mol Life Sci.* 2015 Aug;72(15):2879-98.

New cellular mechanisms of gap junction degradation and recycling. Carette D, Gilleron J, Denizot JP, Grant K, Pointis G, **Segretain D.** *Biol Cell.* 2015 Jul;107(7):218-31.

The RNA-binding protein Mex3b regulates the spatial organization of the Rap1 pathway. Le Borgne M, Chartier N, Buchet-Poyau K, Destaing O, Faurobert E, Thibert C, Rouault JP, Courchet J, Nègre D, Bouvard D, Albiges-Rizo C, Rousseaux S, Khochbin S, **Segretain D**, Crépieux P, Guillou F, Durand P, Perrard MH, Billaud M. *Development.* 2014 May;141(10):2096-107.

The emerging role of connexin 43 in testis pathogenesis. Chevallier D, Carette D, Gilleron J, **Segretain D**, Pointis G. *Curr Mol Med.* 2013 Sep;13(8):1331-44. Review.

Hexavalent chromium at low concentration alters Sertoli cell barrier and connexin 43 gap junction but not claudin-11 and N-cadherin in the rat seminiferous tubule culture model. Carette D, Perrard MH, Prisant N, Gilleron J, Pointis G, **Segretain D**, Durand P. *Toxicol Appl Pharmacol.* 2013 Apr 1;268(1):27-36.

The anti-mitotic drug griseofulvin induces apoptosis of human germ cell tumor cells through a connexin 43-dependent molecular mechanism. Mauro V, Carette D, Pontier-Bres R, Dompierre J, Czerucka D, **Segretain D**, Gilleron J, Pointis G. *Apoptosis.* 2013 Apr;18(4):480-91.

Connexin 43 a check-point component of cell proliferation implicated in a wide range of human testis diseases. Chevallier D, Carette D, **Segretain D**, Gilleron J, Pointis G. *Cell Mol Life Sci.* 2013 Apr;70(7):1207-20. Review.

Molecular connexin partner remodeling orchestrates connexin traffic: from physiology to pathophysiology. Gilleron J, Carette D, Chevallier D, **Segretain D**, Pointis G. *Crit Rev Biochem Mol Biol.* 2012 Sep;47(5):407-23. Review.

Testicular connexin 43, a precocious molecular target for the effect of environmental toxicants on male fertility. Pointis G, Gilleron J, Carette D, **Segretain D.** *Spermatogenesis.* 2011 Oct;1(4):303-317.

Chemical connexin impairment in the developing gonad associated with offspring infertility. Gilleron J, Malassiné A, Carette D, **Segretain D**, Pointis G. *Curr Med Chem.* 2011;18(33):5145-58. Review.

The large GTPase dynamin2: a new player in connexin 43 gap junction endocytosis, recycling and degradation. Gilleron J, Carette D, Fiorini C, Dompierre J, Macia E, Denizot JP, Segretain D, Pointis G. *Int J Biochem Cell Biol.* 2011 Aug;43(8):1208-17.

Large human sperm vacuoles observed in motile spermatozoa under high magnification: nuclear thumbprints linked to failure of chromatin condensation. Boitrelle F, Ferfouri F, Petit JM, Segretain D, Tourain C, Bergere M, Bailly M, Vialard F, Albert M,

Selva J. Hum Reprod. 2011 Jul;26(7):1650-8.

Major involvement of connexin 43 in seminiferous epithelial junction dynamics and male fertility. Carette D, Weider K, Gilleron J, Giese S, Dompierre J, Bergmann M, Brehm R, Denizot JP, Segretain D, Pointis G. Dev Biol. 2010 Oct 1;346(1):54-67.

Physiological and physiopathological aspects of connexins and communicating gap junctions in spermatogenesis. Pointis G, Gilleron J, Carette D, **Segretain D**. Philos Trans R Soc Lond B Biol Sci. 2010 May 27;365(1546):1607-20. Review.

[European regulation REACH and the assessment of testicular toxicity]. Perrard MH, Grenet C, Prisant N, Geoffroy-Siraudin C, Segretain D, Guichaoua MR, Pointis G, Durand P. Med Sci (Paris). 2010 Mar;26(3):305-10. Review. French.

Differential time course of FSH/FSH receptor complex endocytosis within sertoli and germ cells during rat testis development. Segretain D, Gilleron J, Carette D, Denizot JP, Pointis G. Dev Dyn. 2010 Apr;239(4):1113-23.

Heteromeric connexin 43/connexin 33 complex endocytosis: a connexin phosphorylation independent mechanism. Carette D, Gilleron J, Segretain D, Pointis G. Biochimie. 2010 May;92(5):555-9.