Liste of selected publication (2010- present)

2015 :

Fleury, V., N.R. Chevalier, F. Furfaro, and J.L. Duband. 2015. Buckling along boundaries of elastic contrast as a mechanism for early vertebrate morphogenesis. *Eur Phys J E Soft Matter*. 38:92.

Duband, J.L., A. Dady, and V. Fleury. 2015. Resolving time and space constraints during neural crest formation and delamination. *Curr Top Dev Biol*. 111:27-67.

2014 :

Pingault, V., L. Pierre-Louis, A. Chaoui, A. Verloes, E. Sarrazin, G. Brandberg, N. Bondurand, P. Uldall, and S. Manouvrier-Hanu. 2014. Phenotypic similarities and differences in patients with a p.Met112Ile mutation in SOX10. *Am J Med Genet A*. 164A:2344-2350.

Pingault, V., E. Faubert, V. Baral, S. Gherbi, N. Loundon, V. Couloigner, F. Denoyelle, N. Noel-Petroff, H. Ducou Le Pointe, M. Elmaleh-Berges, N. Bondurand, and S. Marlin. 2014. SOX10 mutations mimic isolated hearing loss. *Clin Genet*.

Lecerf, L., A. Kavo, M. Ruiz-Ferrer, V. Baral, Y. Watanabe, A. Chaoui, V. Pingault, S. Borrego, and N. Bondurand. 2014. An impairment of long distance SOX10 regulatory elements underlies isolated Hirschsprung disease. *Hum Mutat*. 35:303-307.

Dady, A., E. Havis, V. Escriou, M. Catala, and J.L. Duband. 2014. Junctional neurulation: a unique developmental program shaping a discrete region of the spinal cord highly susceptible to neural tube defects. *J Neurosci*. 34:13208-13221.

Beaune, G., T.V. Stirbat, N. Khalifat, O. Cochet-Escartin, S. Garcia, V.V. Gurchenkov, M.P. Murrell, S. Dufour, D. Cuvelier, and F. Brochard-Wyart. 2014. How cells flow in the spreading of cellular aggregates. *Proc Natl Acad Sci U S A*. 111:8055-8060.

2013 :

Watanabe, Y., F. Broders-Bondon, V. Baral, P. Paul-Gilloteaux, V. Pingault, S. Dufour, and N. Bondurand. 2013. Sox10 and Itgb1 interaction in enteric neural crest cell migration. *Dev Biol*. 379:92-106.

Thomas, W.A., C. Boscher, Y.S. Chu, D. Cuvelier, C. Martinez-Rico, R. Seddiki, J. Heysch, B. Ladoux, J.P. Thiery, R.M. Mege, and S. Dufour. 2013. alpha-Catenin and vinculin cooperate to promote high E-cadherin-based adhesion strength. *J Biol Chem*. 288:4957-4969.

Pingault, V., V. Bodereau, V. Baral, S. Marcos, Y. Watanabe, A. Chaoui, C. Fouveaut, C. Leroy, O. Verier-Mine, C. Francannet, D. Dupin-Deguine, F. Archambeaud, F.J. Kurtz, J. Young, J. Bertherat, S. Marlin, M. Goossens, J.P. Hardelin, C. Dode, and N. Bondurand. 2013. Loss-of-function mutations in SOX10 cause Kallmann syndrome with deafness. *Am J Hum Genet*. 92:707-724.

Ghoumid, J., L. Drevillon, S.M. Alavi-Naini, N. Bondurand, M. Rio, A. Briand-Suleau, M. Nasser, L. Goodwin, P. Raymond, C. Yanicostas, M. Goossens, S. Lyonnet, D. Mowat, J. Amiel, N. Soussi-Yanicostas, and I. Giurgea. 2013. ZEB2 zinc-finger missense mutations lead to hypomorphic alleles and a mild Mowat-Wilson syndrome. *Hum Mol Genet*. 22:2652-2661.

Escot, S., C. Blavet, S. Hartle, J.L. Duband, and C. Fournier-Thibault. 2013. Misregulation of SDF1-CXCR4 signaling impairs early cardiac neural crest cell migration leading to conotruncal defects. *Circ Res*. 113:505-516.

Drevillon, L., A. Megarbane, B. Demeer, C. Matar, P. Benit, A. Briand-Suleau, V. Bodereau, J. Ghoumid, M. Nasser, X. Decrouy, M. Doco-Fenzy, P. Rustin, D. Gaillard, M. Goossens, and I. Giurgea. 2013. KBP-cytoskeleton interactions underlie developmental anomalies in Goldberg-Shprintzen syndrome. *Hum Mol Genet*. 22:2387-2399.

Bondurand, N., and M.H. Sham. 2013. The role of SOX10 during enteric nervous system development. *Dev Biol*. 382:330-343.

2012 :

Jasaitis, A., M. Estevez, J. Heysch, B. Ladoux, and S. Dufour. 2012. E-cadherin-dependent stimulation of traction force at focal adhesions via the Src and PI3K signaling pathways. *Biophys J*. 103:175-184.

Dady, A., C. Blavet, and J.L. Duband. 2012. Timing and kinetics of E- to N-cadherin switch during neurulation in the avian embryo. *Dev Dyn*. 241:1333-1349.

Thiery, J.P., W. Engl, V. Viasnoff, and S. Dufour. 2012. Biochemical and biophysical origins of cadherin selectivity and adhesion strength. *Curr Opin Cell Biol*. 24:614-619.

Broders-Bondon, F., P. Paul-Gilloteaux, C. Carlier, G.L. Radice, and S. Dufour. 2012. N-cadherin and beta1-integrins cooperate during the development of the enteric nervous system. *Dev Biol*. 364:178-191.

Bondurand, N., V. Fouquet, V. Baral, L. Lecerf, N. Loundon, M. Goossens, B. Duriez, P. Labrune, and V. Pingault. 2012. Alu-mediated deletion of SOX10 regulatory elements in Waardenburg syndrome type 4. *Eur J Hum Genet*. 20:990-994.

Baral, V., A. Chaoui, Y. Watanabe, M. Goossens, T. Attie-Bitach, S. Marlin, V. Pingault, and N. Bondurand. 2012. Screening of MITF and SOX10 regulatory regions in Waardenburg syndrome type 2. *PLoS One*. 7:e41927.

2011 :

Guevorkian, K., D. Gonzalez-Rodriguez, C. Carlier, S. Dufour, and F. Brochard-Wyart. 2011. Mechanosensitive shivering of model tissues under controlled aspiration. *Proc Natl Acad Sci U S A*. 108:13387-13392.

Fereol, S., R. Fodil, M. Barnat, V. Georget, U. Milbreta, and F. Nothias. 2011. Micropatterned ECM substrates reveal complementary contribution of low and high affinity ligands to neurite outgrowth. *Cytoskeleton (Hoboken)*. 68:373-388.

Chaoui, A., Y. Watanabe, R. Touraine, V. Baral, M. Goossens, V. Pingault, and N. Bondurand. 2011. Identification and functional analysis of SOX10 missense mutations in different subtypes of Waardenburg syndrome. *Hum Mutat*. 32:1436-1449.

2010 :

Stanchina, L., T. Van de Putte, M. Goossens, D. Huylebroeck, and N. Bondurand. 2010. Genetic interaction between Sox10 and Zfhx1b during enteric nervous system development. *Dev Biol*. 341:416-428.

Guevorkian, K., M.J. Colbert, M. Durth, S. Dufour, and F. Brochard-Wyart. 2010. Aspiration of biological viscoelastic drops. *Phys Rev Lett*. 104:218101.

Martinez-Rico, C., F. Pincet, J.P. Thiery, and S. Dufour. 2010. Integrins stimulate E-cadherin-mediated intercellular adhesion by regulating Src-kinase activation and actomyosin contractility. *J Cell Sci*. 123:712-722.

Sanchez-Mejias, A., Y. Watanabe, M.F. R, M. Lopez-Alonso, G. Antinolo, N. Bondurand, and S. Borrego. 2010. Involvement of SOX10 in the pathogenesis of Hirschsprung disease: report of a truncating mutation in an isolated patient. *J Mol Med (Berl)*. 88:507-514.

Pingault, V., D. Ente, F. Dastot-Le Moal, M. Goossens, S. Marlin, and N. Bondurand. 2010. Review and update of mutations causing Waardenburg syndrome. *Hum Mutat*. 31:391-406.