

## Publications de l'équipe 13 – 2014 à 2011

Muller P-A, Pichelin M, Apiou G, Louis B, Katz I, Caillibotte G, Filoche M, and Isabey D. Maximal efficiency of convective mixing occurs in mid acinus: A 3D-numerical analysis by an Eulerian approach.

[Journal of Aerosol Science. 2014. 76: 163-174](#)

Ehrmann S, Lyazidi A, Louis B, Isabey D, Le Pennec D, Brochard L, and Apiou-Sbirlea G. Ventilator-Integrated Jet Nebulization Systems: Tidal Volume Control and Efficiency of Synchronization.

[Respir Care. 2014. 59\(10\): 1508-1516](#)

Louis B, Papon JF, Croce C, Caillibotte G, Sbirlea-Apiou G, Coste A, Fodil R, and Isabey D. Frictional resistance sheds light on the multicomponent nature of nasal obstruction: A combined in vivo and computational fluid dynamics study.

[Respir Physiol Neurobiol. 2013 Aug 15;188\(2\):133-42](#)

Sapoval B, and Filoche M. Optimisations and evolution of the mammalian respiratory system : A suggestion of possible gene sharing in evolution.

[The European physical journal E, Soft matter. 2013. 36\(9\):105.](#)

Kott E, Legendre M, Copin B, Papon JF, Dastot-Le Moal F, Montantin G, Duquesnoy P, Piterboth W, Amram D, Bassinet L, Beucher J, Beydon N, Deneuille E, Houdouin V, Journal H, Just J, Nathan N, Tamalet A, Collot N, Jeanson L, Le Gouez M, Vallette B, Vojtek AM, Epaud R, Coste A, Clement A, Housset B, Louis B, Escudier E, and Amselem S. Loss-of-function mutations in RSPH1 cause primary ciliary dyskinesia with central-complex and radial-spoke defects.

[Am J Hum Genet. 2013. 93\(3\):561-70.](#)

Isabey D, Fereol S, Caluch A, Fodil R, Louis B, and Pelle G. Force distribution on multiple bonds controls the kinetics of adhesion in stretched cells.

[J Biomech. 2013. 46\(2\):307-13.](#)

Wang B, Caluch A, Fodil R, Fereol S, Zadigue P, Pelle G, Louis B, and Isabey D. Force control of endothelium permeability in mechanically stressed pulmonary micro-vascular endothelial cells.

[Biomed Mater Eng. 2012. 22\(1\):163-70.](#)

Papon JF, Bassinet L, Cariou-Patron G, Zerah-Lancner F, Vojtek AM, Blanchon S, Crestani B, Amselem S, Coste A, Housset B, et al. Quantitative analysis of ciliary beating in primary ciliary dyskinesia: a pilot study.

[Orphanet journal of rare diseases. 2012. 7\(1\):78](#)

Leboulanger N, Louis B, Corvol H, Ramirez A, Fodil R, Lofaso F, and Fauroux B. Evaluation of the trachea and intrathoracic airways by the acoustic reflection method in children with cystic fibrosis.

[Respir Physiol Neurobiol. 2012.181\(1\):74-78.](#)

Leboulanger N, Louis B, Fodil R, Boelle PY, Clement A, Garabedian EN, and Fauroux B. Analysis of the pharynx and the trachea by the acoustic reflection method in children: a pilot study.

[Respir Physiol Neurobiol. 2011.175\(2\):228-233.](#)

M. Florens, B. Sapoval, M. Filoche. Optimal branching asymmetry of hydrodynamic pulsatile trees.

[Phys. Rev. Lett., 2011. 106\(17\), 178104.](#)

Roche-Campo, F., L. Vignaux, F. Galia, A. Lyazidi, F. Vargas, J. Texereau, G. Apiou-Sbirlea, P. Jolliet and L. Brochard, Delivery of helium-oxygen mixture during spontaneous breathing: evaluation of three high-concentration face masks.

[Intensive Care Med, 2011. 37\(11\):1787-92.](#)