CURRICULUM VITAE

MIGEOTTE Isabelle MD, PhD

FNRS Research Associate, IRIBHM, ULB
Consultant in Clinical Genetics, **Hôpital Erasme, ULB**
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Employment history

1/10/2011- : FNRS Research Associate, IRIBHM, ULB
1/11/2010- : Consultant in Clinical Genetics, Hôpital Erasme, ULB
1/10/2010-30/9/2011: FNRS post-doctoral fellow, IRIBHM, ULB
1/11/2005-30/9/2010: post-doctoral fellow, Kathryn Anderson's laboratory, Memorial Sloan-Kettering Cancer Center, NY, USA
1/10/2004-30/9/2005: post-graduate training in Internal Medicine, Medical Genetics, Hôpital Erasme, ULB
1/10/2000-30/9/2004: FNRS PhD student, IRIBHM, ULB
1/10/1998-30/9/2000: post-graduate training in Internal Medicine, Hôpital Erasme, ULB

Education

1998: Medical Doctor (summa cum laude)
School of Medicine, Free University of Brussels (ULB)
National Board Exam (USMLE)
1995 step 1 (London)
1997 step 2 (Paris**)**
2005: PhD
Institut de Recherche en Biologie Humaine et Moléculaire (IRIBHM), ULB
2005: Internal Medicine, ULB

Financial Support

2000-2004: Fonds de la Recherche Scientifique (FNRS) pre-doctoral fellowship
2006-2008: EMBO long-term post-doctoral fellowship
2008-2010: Tri-Institutional Starr Stem Cell Scholar fellowship
2009-2012: FNRS post-doctoral fellowship
2011- : FNRS Research Associate

List of publications of Isabelle Migeotte

5.1.4. and 5.1.5. - Peer-reviewed journal articles

2016

1. Browet, A. A., De Vleeschouwer, C., Jacques, L. L., Mathiah, N., Saykali, B., & **Migeotte, I.** (2016, August). Cell segmentation with random ferns and graph-cuts. *Proceedings - International Conference on Image Processing*, *2016-August*, 7533140, 4145-4149. doi:10.1109/ICIP.2016.7533140

2014

2. Mazari, E., Zhao, X., **Migeotte, I.**, Collignon, J., Gosse, C., & Perea-Gomez, A. (2014, June). A microdevice to locally electroporate embryos with high efficiency and reduced cell damage. *Development*, *141*(11), 2349-2359. doi:10.1242/dev.106633

3. Zhao, X., Mazari, E., Suárez-Boomgaard, D. D., **Migeotte, I.**, Perea-Gomez, A., & Gosse, C. (2014). Finite element model simulations to assist the design of microdevices dedicated to the localized electroporation of mouse embryos. *E C S Transactions*, *64*(16), 7-14. doi:10.1149/06416.0007ecst

2013

4. Simonis, N., **Migeotte, I.**, Lambert, N., Perazzolo, C., de Silva, D. C., Dimitrov, B., Heinrichs, C., Janssens, S., Kerr, B., Mortier, G., Van Vliet, G., Lepage, P., Casimir, G., Abramowicz, M., Smits, G., & Vilain, C. (2013, June). FGFR1 mutations cause Hartsfield syndrome, the unique association of holoprosencephaly and ectrodactyly. *Journal of medical genetics*, *50*(9), 585-592. doi:10.1136/jmedgenet-2013-101603

2012

5. Bloomekatz, J., Grego-Bessa, J., **Migeotte, I.**, & Anderson, K. V. (2012, April). Pten regulates collective cell migration during specification of the anterior-posterior axis of the mouse embryo. *Developmental biology*, *364*(2), 192-201. doi:10.1016/j.ydbio.2012.02.005

2011

6. Devosse, T., Dutoit, R., **Migeotte, I.**, De Nadai, P., Imbault, V., Communi, D., Salmon, I., & Parmentier, M. (2011, August). Processing of HEBP1 by cathepsin D gives rise to F2L, the agonist of formyl peptide receptor 3. *The Journal of immunology*, *187*(3), 1475-1485. doi:10.4049/jimmunol.1003545

7. **Migeotte, I.**, Grego-Bessa, J., & Anderson, K. (2011, July). Rac1 mediates morphogenetic responses to intercellular signals in the gastrulating mouse embryo. *Development*, *138*(14), 3011-3020. doi:10.1242/dev.059766

8. Dubielecka, P. M., Ladwein, K. I., Xiong, X., **Migeotte, I.**, Chorzalska, A., Anderson, K. V., Sawicki, J., Rottner, K., Stradal, T., & Kotula, L. (2011, April). Essential role for Abi1 in embryonic survival and WAVE2 complex integrity. *Proceedings of the National Academy of Sciences of the United States of America*, *108*(17), 7022-7027. doi:10.1073/pnas.1016811108

2010

9. Lee, J., **Migeotte, I.**, & Anderson, K. (2010, October). Left-right patterning in the mouse requires Epb4.1l5-dependent morphogenesis of the node and midline. *Developmental biology*, *346*(2), 237-246. doi:10.1016/j.ydbio.2010.07.029

10. **Migeotte, I.**, Omelchenko, T., Hall, A., & Anderson, K. V. (2010, August 03). Rac1-Dependent Collective Cell Migration is Required for Specification of the Anterior-Posterior Body Axis of the Mouse. *PLoS biology*, *8*(8), 1000442.

2007

11. Gao, J.-L., Guillabert, A., Hu, J., Le, Y., Urizar, E., Seligman, E., Fang, K. J., Yuan, X., Imbault, V., Communi, D., Wang, J. M., Parmentier, M., Murphy, P. M., & **Migeotte, I.** (2007, February). F2L, a peptide derived from heme-binding protein, chemoattracts mouse neutrophils by specifically activating Fpr2, the low-affinity N-formylpeptide receptor. *The Journal of immunology*, *178*(3), 1450-1456.

2006

12. **Migeotte, I.**, Communi, D., & Parmentier, M. (2006, December). Formyl peptide receptors: a promiscuous subfamily of G protein-coupled receptors controlling immune responses. *Cytokine & growth factor reviews*, *17*(6), 501-519. doi:10.1016/j.cytogfr.2006.09.009

2005

13. **Migeotte, I.**, Riboldi, E., Franssen, J.-D., Grégoire, F., Loison, C., Wittamer, V., Detheux, M., Robberecht, P., Costagliola, S., Vassart, G., Sozzani, S., Parmentier, M., & Communi, D. (2005). Identification and characterization of an endogenous chemotactic ligand specific for FPRL2. *The Journal of Experimental Medicine*, *201*(1), 83-93. doi:10.1084/jem.20041277

2003

14. Wittamer, V., Franssen, J.-D., Vulcano, M., Mirjolet, J.-F., Le Poul, E., **Migeotte, I.**, Brezillion, S., Tyldesley, R., Blanpain, C., Detheux, M., Mantovani, A., Sozzani, S., Vassart, G., Parmentier, M., & Communi, D. (2003). Specific recruitment of antigen-presenting cells by chemerin, a novel processed ligand from human inflammatory fluids. *The Journal of Experimental Medicine*, *198*(7), 977-985. doi:10.1084/jem.20030382

2002

15. **Migeotte, I.**, Franssen, J.-D., Goriely, S., Willems, F., & Parmentier, M. (2002, February). Distribution and regulation of expression of the putative human chemokine receptor HCR in leukocyte populations. *European Journal of Immunology*, *32*(2), 494-501. doi:10.1002/1521-4141(200202)32:2<494::AID-IMMU494>3.0.CO;2-Y

1999

16. Blanpain, C., Doranz, B. J., Vakili, J., Rucker, J., Govaerts, C., Baik, S. S., Lorthioir, O., **Migeotte, I.**, Libert, F., Baleux, F., Vassart, G., Doms, R. W., & Parmentier, M. (1999, December). Multiple charged and aromatic residues in CCR5 amino-terminal domain are involved in high affinity binding of both chemokines and HIV-1 Env protein. *The Journal of biological chemistry*, *274*(49), 34719-34727. doi:10.1074/jbc.274.49.34719

17. Costagliola, S., Sunthorntepvarakul, T., **Migeotte, I.**, Van Sande, J., Kajava, A. M., Refetoff, S., & Vassart, G. (1999, October). Structure-function relationships of two loss-of-function mutations of the thyrotropin receptor gene. *Thyroid*, *9*(10), 995-1000.

18. Blanpain, C., **Migeotte, I.**, Lee, B., Vakili, J., Doranz, B. J., Govaerts, C., Vassart, G., Doms, R. W., & Parmentier, M. (1999, September). CCR5 binds multiple CC-chemokines: MCP-3 acts as a natural antagonist. *Blood*, *94*(6), 1899-1905.

19. Blanpain, C., Lee, B., Vakili, J., Doranz, B. J., Govaerts, C., **Migeotte, I.**, Sharron, M., Dupriez, V., Vassart, G., Doms, R. W., & Parmentier, M. (1999, July). Extracellular cysteines of CCR5 are required for chemokine binding, but dispensable for HIV-1 coreceptor activity. *The Journal of biological chemistry*, *274*(27), 18902-18908. doi:10.1074/jbc.274.27.18902

1998

20. De Hauwer, C., Camby, I., Darro, F., **Migeotte, I.**, Decaestecker, C., Verbeek, C., Danguy, A., Brotchi, J., Salmon, I., Van Ham, P., & Kiss, R. (1998, November). Gastrin inhibits motility, decreases cell death levels and increases proliferation in human glioblastoma cell lines. *Journal of neurobiology*, *37*(3), 373-382. doi:10.1002/(SICI)1097-4695(19981115)37:3<373::AID-NEU3>3.0.CO;2-H

Theses and master's dissertations

2005

1. **Migeotte, I.** (2005). *Study of orphan receptors potentially implicated in leukocyte trafficking* (Unpublished doctoral dissertation). Université libre de Bruxelles, Faculté de Médecine – Médecine, Bruxelles.