

## **2015 Anatomy & Cell Biology Publications, Conferences and Book Chapters**

### **Table of Contents**

AUTEXIER, Chantal .....	2
BLASCHUK, Orest W. ....	2
BUI, Khanh Huy.....	2
DAVID, Samuel .....	2
DAVIS, Elaine .....	4
HERMO, Louis.....	5
KENNEDY, Timothy .....	5
LAMARCHE-VANE, Nathalie.....	6
MANDATO, Craig A.....	6
MCKEE, Marc .....	7
MCPHERSON, Peter.....	7
MORALES, Carlos .....	8
NOEL, Geoffroy .....	9
POSNER, Barry .....	9
REINHARDT, Dieter .....	9
RIBEIRO, Alfredo.....	10
ROUILLER, Isabelle .....	11
SOSSIN, Wayne.....	11
STIFANI, Stefano .....	12
VALI, Hojatollah.....	12
VENTURA, Nicole .....	14
WALKER, Claire Dominique .....	15
<b><i>EMERITUS PUBLICATIONS</i></b> .....	16
MILLER, Sandra .....	16
SMITH, Charles E.....	16

## AUTEXIER, Chantal

---

Rousseau, P. and **Autexier, C.** (2015). Telomere biology: Rationale for diagnostics and therapeutics in cancer. *RNA Biology*; 12(10):1078-1082. doi: [10.1080/15476286.2015.1081329](https://doi.org/10.1080/15476286.2015.1081329).

Spinella, J.F., Cassart, P., Garnier, N., Rousseau, P., Drullion, C., Richer, C., Ouimet, M., Vidal, R., Saillour, V., Healy, J., **Autexier, C.** and Daniel Sinnett. (2015). A novel somatic mutation in TPP1 induces telomere lengthening and apoptosis resistance in leukemia cells. *BMC Cancer*; 15:621. doi: [10.1186/s12885-015-1639-5](https://doi.org/10.1186/s12885-015-1639-5).

## BLASCHUK, Orest W.

---

Mrozik, K.M., Cheong, C.M., Hewett, D., Chow, A.W.S., **Blaschuk, O.W.**, Zannettino, A.C.W. and Vandyke, K. (2015). Therapeutic targeting of N-cadherin is an effective treatment for multiple myeloma. *British Journal of Haematology*; 171(3):387-399. doi: [10.1111/bjh.13596](https://doi.org/10.1111/bjh.13596).

## BUI, Khanh Huy

---

Gaik, M., Flemming, D., von Appen, A., Kastritis, P., Muecke, N., Fischer, J., Stelter, P., Ori, A., **Bui, K.H.**, Bassler, J., Barbar, E., Beck, M. and Hurt, E. (2015). Structural basis for assembly and function of the Nup82 complex in the nuclear pore scaffold. *Journal of Cell Biology*; 208(3):283-297. doi: [10.1083/jcb.201411003](https://doi.org/10.1083/jcb.201411003).

Maheshwari, A., Obbineni, J.M., **Bui, K.H.**, Shibata, K., Toyoshima, Y. and Ishikawa, T. (2015). α- and β-tubulin lattice arrangement of the axonemal microtubule doublet and binding proteins revealed by single particle cryo-electron microscopy and tomography. *Structure*; 23(9):1584-1595. doi: [10.1016/j.str.2015.06.017](https://doi.org/10.1016/j.str.2015.06.017).

von Appen, A., Kosinski, J., Sparks, L., Ori, A., DiGuilio, A.L., Vollmer, B., Mackmull, M., Banterle, N., Parca, L., Buczak, K., Mosalaganti, S., Hagen, W., Andres-Pons, A., Lemke, E.A., Bork, P., Antonin, W., Glavy, J.S., **Bui, K.H.\*** and Beck, M.\* (2015). In situ structural analysis of the human nuclear pore complex. *Nature*; 526:140-143. (\*Shared corresponding authors). doi: [10.1038/nature15381](https://doi.org/10.1038/nature15381).

## DAVID, Samuel

---

Anderson, W.D., Makadia, H.K., **Greenhalgh, A.D.**, Schwaber, J.S., **David, S.** and Vadigepalli, R. (2015). Computational modeling of cytokine signaling in microglia. *Molecular BioSystems*; 11(12):3332-3346. doi: [10.1039/c5mb00488h](https://doi.org/10.1039/c5mb00488h).

**David, S.**, **Greenhalgh, A.D.** and **Kroner, A.** (2015). Macrophage and microglial plasticity in the injured spinal cord. *Neuroscience*; 307:311-318. doi: [10.1016/j.neuroscience.2015.08.064](https://doi.org/10.1016/j.neuroscience.2015.08.064).

Jiang, R., Hua, C., Wan, Y., Jiang, B., Hu, H., Zheng, J., Fuqua, B.K., Dunaief, J.L., Anderson, G.J., **David, S.**, Vulpe, C.D. and Chen, H. (2015). Hephaestin and ceruloplasmin play distinct but interrelated roles in iron homeostasis in mouse brain. *Journal of Nutrition*; 145(5):1003-1009. doi: [10.3945/jn.114.207316](https://doi.org/10.3945/jn.114.207316).

Kwon, B.K., Streijger, F., Hill, C.E., Anderson, A.J., Bacon, M., Beattie, M.S., Blesch, A., Bradbury, E.J., Brown, A., Bresnahan, J.C., Case, C.C., Colburn, R.W., **David, S.**, Fawcett, J.W., Ferguson, A.R., Fischer, I., Floyd, C.L., Gensel, J.C., Houle, J.D., Jakeman, L.B., Jeffery, N.D., Jones, L.A., Kleitman, N., Kocsis, J., Lu, P., Magnuson, D.S., Marsala, M., Moore, S.W., Mothe, A.J., Oudega, M., Plant, G.W., Rabchevsky, A.S., Schwab, J.M., Silver, J., Steward, O., Xu, X.M., Guest, J.D. and Tetzlaff, W. (2015). Large animal and primate models of spinal cord injury for the testing of novel therapies. *Experimental Neurology*; 269:154-168. doi: [10.1016/j.expneurol.2015.04.008](https://doi.org/10.1016/j.expneurol.2015.04.008).

Lim, T.K., Shi, X.Q., Johnson, J.M., Rone, M.B., Antel, J.P., **David, S.** and Zhang, J. (2015). Peripheral nerve injury induces persistent vascular dysfunction and endoneurial hypoxia, contributing to the genesis of neuropathic pain. *Journal of Neuroscience*; 35(8):3346-3359. doi: [10.1523/jneurosci.4040-14.2015](https://doi.org/10.1523/jneurosci.4040-14.2015).

Siqueira Mietto, B., Kroner, A., Girolami, E.I., Santos-Nogueira, E., Zhang, J. and **David, S.** (2015). Role of IL-10 in Resolution of Inflammation and Functional Recovery after Peripheral Nerve Injury. *Journal of Neuroscience*; 35(50):16431-442. doi: [10.1523/jneurosci.2119-15.2015](https://doi.org/10.1523/jneurosci.2119-15.2015).

Zarruk, J.G., Berard, J.L., Passos Dos Santos, R., Kroner, A., Lee, J., Arosio, P. and **David, S.** (2015). Expression of iron homeostasis proteins in the spinal cord in experimental autoimmune encephalomyelitis and their implications for iron accumulation. *Neurobiology of Disease*; 81:93-107. doi: [10.1016/j.nbd.2015.02.001](https://doi.org/10.1016/j.nbd.2015.02.001).

## Presentations

- March 16, 2015 "Targeting inflammation in spinal cord injury." 16<sup>th</sup> Annual Neuroscience Research Day, organized by the Neuroscience Graduate Students' Association. University of Alberta, Edmonton, Alberta. (Keynote Speaker).
- March 30, 2015 Symposium on Spinal Cord Injury; Experimental Biology 2015, Boston, Massachusetts, U.S.A. (Invited Speaker).
- September 25, 2015 "Role of iron in pathogenesis and repair in MS and EAE." endMS Atlantic RRTC Annual Research Retreat. Memorial University, St. John's, Newfoundland. Keynote Speaker.
- November 13, 2015 "Role of iron in nervous damage and repair." (Recipient of the Barbara Turnbull Award for Spinal Cord Research).14<sup>th</sup> Annual Charles Tator Barbara-Turnbull Symposium. Tremble Conference Centre for Neurodegenerative Disease. Toronto Western Hospital, Toronto, Ontario. (Invited Speaker).
- November 29, 2015 "Blocking TNF and a kinase that regulates TNF expression improves outcome after SCI." 1<sup>st</sup> Spinal Cord Injury Conference (SCiS), Lisbon, Portugal. (Invited Plenary Speaker).

## **Patents**

US Patent Awarded – Treatment of Neural Diseases or Condition; D. Radzioch, **S. David**, R. Lopez-Vales, T. Skinner; # 9,050,294 B2. June 9, 2015.

## **DAVIS, Elaine**

Dabovic, B., Robertson, I.B., Zilberberg, L., Vassallo, M., **Davis, E.C.** and Rifkin, D.B. (2015). Function of latent TGF $\beta$  binding protein 4 and fibulin 5 in elastogenesis and lung development. *Journal of Cellular Physiology*; 230(1):226-236. doi: [10.1002/jcp.24704](https://doi.org/10.1002/jcp.24704).

Hinderer, S., Shen, N., Ringuette, L.J., Hansmann, J., Reinhardt, D.P., Brucker, S., **Davis, E.C.** and Schenke-Layland, K. (2015). In vitro elastogenesis – Instructing human vascular smooth muscle cells to generate an elastic fiber-containing extracellular matrix scaffold. *Biomedical Materials*; 10(3):034102. doi: [10.1088/1748-6041/10/3/034102](https://doi.org/10.1088/1748-6041/10/3/034102).

Mofarrahi, M., McClung, J.M., Kontos, C.D., **Davis, E.C.**, Tappuni, B., Moroz, N., Pickett, A.E., Huck, L., Harel, S., Daniolou, G. and Hussain, S.N.A. (2015). Angiopoietin-1 enhances skeletal muscle regeneration in mice. *American Journal of Physiology – Regulatory, Integrative and Comparative Physiology*; 308(7):R576-R589. doi: [10.1152/ajpregu.00267.2014](https://doi.org/10.1152/ajpregu.00267.2014).

Papke, C.L., Tsuneyzumi, J., Ringuette, L.J., Nagaoka, H., Terajima, M., Yamashiro, Y., Urquhart, G., Yamauchi, M., **Davis, E.C.** and Yanagisawa, H. (2015). Loss of fibulin-4 disrupts collagen synthesis and maturation: Implications for pathology resulting from *EFEMP2* mutations. *Human Molecular Genetics*; 24(20):5867-5879. doi: [10.1093/hmg/ddv308](https://doi.org/10.1093/hmg/ddv308).

Su, C.-T., Huang, J.-W., Chiang, C.-K., Lawrence, E.C., Levine, K.L., Dabovic, B., Jung, C., **Davis, E.C.**, Madan-Khetarpal, S. and Urban, Z. (2015). Latent transforming growth factor binding protein 4 regulates transforming growth factor beta receptor stability. *Human Molecular Genetics*; 24(14):4024-4036. doi: [10.1093/hmg/ddv139](https://doi.org/10.1093/hmg/ddv139).

Wang, Y., Zeinali-Davarani, S., **Davis, E.C.** and Zhang, Y. (2015). Effect of glucose on the biomechanical function of arterial elastin. *Journal of the Mechanical Behavior of Biomedical Materials.*; 49:244-254. doi: [10.1016/j.jmbbm.2015.04.025](https://doi.org/10.1016/j.jmbbm.2015.04.025).

Yamashiro, Y., Papke, Kim, J., Ringuette, L.J., Zhang, Q.-J., Liu, Z.-P., Mirzaei, H., Wagenseil, J.E., **Davis, E.C.** and Yanagisawa, H. (2015). Abnormal mechanosensing and cofilin activation promote the progression of ascending aortic aneurysms in mice. *Science Signaling*; 8(399):ra105. doi: [10.1126/scisignal.aab3141](https://doi.org/10.1126/scisignal.aab3141).

## **Presentations**

July 26-31, 2015      Gordon Research Seminar on Elastin, Elastic Fibers & Microfibrils. University of New England, Maine, U.S.A. (Invited Speaker).

## **HERMO, Louis**

---

Au, C.E., Hermo, L., Byrne, E., Smirle, J., Fazel, A., Kearney, R.E., Smith, C.E., Vali, H., Fernandez-Rodriguez, J., Simon, P.H., Mandato, C., Nilsson, T., Bergeron, J.J. (2015). Compartmentalization of membrane trafficking, glucose transport, glycolysis, actin, tubulin and the proteasome in the cytoplasmic droplet/Hermes body of epididymis sperm. *Open Biology*; 5:150080. doi: [10.1098/rsob.150080](https://doi.org/10.1098/rsob.150080).

Au, C.E., Hermo, L., Byrne, E., Smirle, J., Fazel, A., Simon, P.H., Kearney, R.E., Cameron, P.H., Smith, C.E., Vali, H., Fernandez-Rodriguez, J., Ma, K., Nilsson, T. and Bergeron, J.J. (2015). Expression, sorting, and segregation of Golgi proteins during germ cell differentiation in the testis. *Molecular Biology of the Cell*; 26(22):4015-4032. doi: [10.1091/mbc.E14-12-1632](https://doi.org/10.1091/mbc.E14-12-1632).

Hess, R.A., Hermo, L., Robaire, B. (2015). Lessons learned in Andrology: Yves Clermont, an interview by Lonnie D. Russell. *Andrology*; 3(6):1015-1021. doi: [10.1111/andr.12115](https://doi.org/10.1111/andr.12115).

Mandon, M., **Herмо, L.** and Cyr, D.G. (2015). Isolated Rat Epididymal Basal Cells Share Common Properties with Adult Stem Cells. *Biology of Reproduction*; 93(5):115. doi: [10.1095/biolreprod.115.133967](https://doi.org/10.1095/biolreprod.115.133967).

## **KENNEDY, Timothy**

---

Beamish, I.V. and **Kennedy, T.E.** (2015). Robo3: The Road Taken. *Developmental Cell*; 32(1):3-4. doi: [10.1016/j.devcel.2014.12.021](https://doi.org/10.1016/j.devcel.2014.12.021).

Bin, J.M., Han, D., Lai Wing Sun, K., Croteau, L.P., Dumontier, E., Cloutier, J.F., Kania, A. and **Kennedy, T.E.** (2015). Complete loss of netrin-1 results in embryonic lethality and severe axon guidance defects without increased neural cell death. *Cell Reports*; 12(7):1099-1106. doi: [10.1016/j.celrep.2015.07.028](https://doi.org/10.1016/j.celrep.2015.07.028).

DeGeer, J., Kaplan, A., Mattar, P., Morabito, M., Stochaj, U., **Kennedy, T.E.**, Debant, A., Michel, C., Fournier, A.E. and Lamarche-Vane, N. (2015). Hsc70 chaperone activity underlies Trio GEF function in axon growth and guidance induced by netrin-1. *Journal of Cell Biology*; 210(5): 817-332. doi: [10.1083/jcb.201505084](https://doi.org/10.1083/jcb.201505084).

Godin, A.G., Rappaz, B., Potvin-Trottier, L., **Kennedy, T.E.**, De Koninck, Y. and Wiseman, P.W. (2015). Spatial intensity distribution analysis reveals abnormal oligomerization of proteins in single cells. *Biophysical Journal*; 109(4):710-721. doi: [10.1016/j.bpj.2015.06.068](https://doi.org/10.1016/j.bpj.2015.06.068).

Podjaski, C., Alvarez, J.I., Bourbonniere, L., Larouche, S., Terouz, S., Bin, J.\*., Lecuyer, M.A., Saint-Laurent, O., Laroche, C., Darlington, P., Arbour, N., Antel, J.P., **Kennedy, T.E.** and Prat, A. (2015). Netrin-1 Regulates Blood-Brain Barrier Function and Neuroinflammation. *Brain*; 138(6):1598-1612. doi: [10.1093/brain/awv092](https://doi.org/10.1093/brain/awv092).

Ricoult, S.G., **Kennedy, T.E.** and Juncker, D. (2015). Substrate-Bound Protein Gradients to Study Haptotaxis. *Frontiers in Bioengineering and Biotechnology*; 3:40. doi: [10.3389/fbioe.2015.00040](https://doi.org/10.3389/fbioe.2015.00040).

## **Presentations**

July 16, 2015      XII European Meeting on Glial Cells in Health and Disease. Bilbao, Spain.  
(Featured Symposium Speaker).

## **Patents**

Provisional Patent. "Substrates for Growing Cells". Inventors: Barrett, C., Kennedy, T., Corkery, C., Gu, K. and Harris, S. June 19, 2015.

### **LAMARCHE-VANE, Nathalie**

DeGeer, J., Kaplan, A., Mattar, P., Morabito, M., Stochaj, U., Kennedy, T.E., Debant, A., Cayouette, M., Fournier, A.E. and **Lamarche-Vane, N.** (2015). Hsc70 chaperone activity underlies Trio GEF function in axon growth and guidance induced by netrin-1. *Journal of Cell Biology*; 210(5):817-832. doi: [10.1083/jcb.201505084](https://doi.org/10.1083/jcb.201505084).

Pal, R., Ramdzan, Z.M., Kaur, S., Duquette, P.M., Marcotte, R., Leduy, L., Davoudi, S., **Lamarche-Vane, N.**, Iulianella, A. and Nepveu, A. (2015). CUX2 Functions As an Accessory Factor in the Repair of Oxidative DNA Damage. *Journal of Biological Chemistry*; 290:22520-22531. doi: [10.1074/jbc.m115.651042](https://doi.org/10.1074/jbc.m115.651042).

### **MANDATO, Craig A.**

Au, C.E., Hermo, L., Byrne, E., Smirle, J., Fazel, A., Kearney, R.E., Smith, C.E., Vali, H., Fernandez-Rodriguez, J., Simon, P.H.G., **Mandato, C.**, Nilsson, T. and Bergeron, J.J.M. (2015). Compartmentalization of membrane trafficking, glucose transport, glycosis, actin, tubulin and the proteasome in the cytoplasmic droplet/Hermes body of epididymal sperm. *Open Biology*; 5(8):150080. doi: [10.1098/rsob.150080](https://doi.org/10.1098/rsob.150080).

Boucher, E. and **Mandato, C.A.** (2015). Plasma membrane and cytoskeleton dynamics during single-cell wound healing. *Biochimica et Biophysica Acta (BBA)*; 1853(10):2649-2661. doi: [10.1016/j.bbamcr.2015.07.012](https://doi.org/10.1016/j.bbamcr.2015.07.012).

Heidari, M., **Mandato, C.A.** and Lehoux, S. (2015). Vascular smooth muscle cell phenotypic modulation and the extracellular matrix. *Artery Research*; 9:14-18. doi: [10.1016/j.artres.2014.12.002](https://doi.org/10.1016/j.artres.2014.12.002).

Jones, N., Arab, N., Eid, R., Gharib, N., Sheibani, S., Vali, H., Khoury, C., Murray, A., Boucher, E., **Mandato, C.**, Young, P. and Greenwood, M. (2015). Human Thyroid Cancer-1 (TC-1) is a vertebrate specific oncogenic protein that protects against copper and pro-apoptotic genes in yeast. *Microbial Cell*; 2(7):247-255. doi: [10.15698/mic2015.07.213](https://doi.org/10.15698/mic2015.07.213).

## **MCKEE, Marc**

---

Addison, W.N., Nelea, V., Chicatun, F., Chien, Y.C., Tran-Khanh, N., Buschmann, M.D., Nazhat, S.N., Kaartinen, M.T., Vali, H., Tecklenburg, M.M., Franceschi, R.T. and **McKee, M.D.** (2015). Extracellular matrix mineralization in murine MC3T3-E1 osteoblast cultures: An ultrastructural, compositional and comparative analysis with mouse bone. *Bone*; 71:244-256. doi: [10.1016/j.bone.2014.11.003](https://doi.org/10.1016/j.bone.2014.11.003).

Al-Jallad, H., Palomo, T., Roughley, P., Glorieux, F.H., **McKee, M.D.**, Moffatt, P. and Rauch, F. (2015). The effect of SERPINF1 in-frame mutations in osteogenesis imperfecta type VI. *Bone*; 76:115-120. doi: [10.1016/j.bone.2015.04.008](https://doi.org/10.1016/j.bone.2015.04.008).

Komarova, S.V., Safranek, L., Gopalakrishnan, J., Ou, M.J., **McKee, M.D.**, Murshed, M., Rauch, F. and Zuhir, E. (2015). Mathematical model for bone mineralization. *Frontiers in Cell and Developmental Biology*; 3(51):1-11. doi: [10.3389/fcell.2015.00051](https://doi.org/10.3389/fcell.2015.00051).

## **Conferences**

- January 2015            "Normal, surgical and osseointegrated matrix-mineral interfaces in bone biology." 4<sup>th</sup> Annual Biomedical Engineering Symposium, McMaster University, Hamilton, Ontario. (Invited Speaker).
- March 2015            "Primer on bone biology: Cells, matrix and mineral in skeletal modeling and remodeling." Society of Toxicology Annual Meeting; Symposium on Skeletal System Endocrinology and Toxicology, San Diego, California. (Invited Speaker).
- May 2015            "Protein/peptide relationships and interactions with the inorganic phase in biominerals." International School on Biological Crystallization, Granada, Spain. (Invited Speaker).

## **Patents**

A new drug (enzyme-replacement therapy, Strensiq®, Asfotase Alfa) for hypophosphatasia that I was involved in developing with Montreal start-up Enobia Pharma (now Alexion Pharmaceuticals) is now approved for use in Canada, USA, Europe and Japan.

## **MCPHERSON, Peter**

---

Allaire, P.D., **McPherson, P.S.**, and Ritter, B. (2015). Analysis of connecdenn 1-3 (DENND1A-C) GEF activity for Rab35. In *Rab GTPases: Methods and Protocols. Methods in Molecular Biology*. Springer Science+Business Media, New York. Guangpu Li, Ed. Vol 1298:217-231. doi: [10.1007/978-1-4939-2569-8](https://doi.org/10.1007/978-1-4939-2569-8).

Ioannou, M.S., Bell, E.S., Girard, M., Chaineau, M., Hamlin, J.N.R., Daubaras, M., Monast, A., Park, M., Hodgson, L., and **McPherson, P.S.** (2015). DENND2B activates Rab13 at the leading edge of migrating cells and promotes metastatic behavior. *Journal of Cell Biology*; 208(5):629-648. doi: [10.1083/jcb.201407068](https://doi.org/10.1083/jcb.201407068).

Larivière, R., Gaudet, R., Gentil, B.J., Girard, M., Conte, T., Minotti, S., Leclerc-Desaulniers, K., Shoubridge, E.A., Gehring, K., **McPherson, P.S.**, McKinney, R.A., Durham, H.D. and Brais, B. (2015). Sacs knockout mice present pathophysiological defects underlying autosomal recessive spastic ataxia of Charlevoix-Saguenay. *Human Molecular Genetics*; 24(3):727-739. doi: [10.1093/hmg/ddu491](https://doi.org/10.1093/hmg/ddu491).

Li, X., Menade, M., Kozlov, G., Hu, Z., Dai, Z., **McPherson, P.S.**, Brais, B. and Gehring, K. (2015). High-throughput screening for ligands of the HEPE domain of sacsin. *PLoS ONE*; 10(9):e0137298. doi: [10.1371/journal.pone.0137298](https://doi.org/10.1371/journal.pone.0137298).

McAdam, R.L., Varga, K.T., Jiang, Z., Young, F.B., Blandford, V., **McPherson, P.S.**, Gong, L-W. and Sossin, W.S. (2015). The juxtamembrane region of synaptotagmin 1 interacts with dynamin 1 and regulates vesicles fission during compensatory endocytosis in endocrine cells. *Journal of Cell Science*; 128:2229-2235. doi: [10.1242/jcs.161505](https://doi.org/10.1242/jcs.161505).

Nossova, N., Kulasekaran, G., Marat, A.L., Lund, I., Cremer, C., and **McPherson, P.S.** (2015). Phosphorylation-dependent regulation of connexin/DENND1 guanine-nucleotide exchange factors. *Journal of Biological Chemistry*; 290(29):17999-18008. doi: [10.1074/jbc.m115.636712](https://doi.org/10.1074/jbc.m115.636712).

Schreij, A.M.A., Chaineau, M., Ruan, W., Lin, S., Barker, P.A., Fon, E.A., and **McPherson, P.S.** (2015). LRRK2 functions in concert with clathrin-light chains to limit Rac1 activation and control actin cytoskeleton dynamics. *EMBO Reports*; 16(1):79-86. doi: [10.15252/embr.201438714](https://doi.org/10.15252/embr.201438714).

Xu, J. and **McPherson, P.S.** (2015). DENND3: A signaling/trafficking interface in autophagy. *Cell Cycle*; 14(17):2717-2718. (Invited Review). doi: [10.1080/15384101.2015.1071136](https://doi.org/10.1080/15384101.2015.1071136).

Xu, J., Fotouhi, M., and **McPherson, P.S.** (2015). Phosphorylation of the exchange factor DENND3 by ULK in response to starvation activates Rab12 and induces autophagy. *EMBO Reports*; 16(6):709-718. doi: [10.15252/embr.201440006](https://doi.org/10.15252/embr.201440006).

## **Presentations**

January 19-24, 2015 11<sup>th</sup> Annual Bellairs Research Workshop: Systems Cell Biology and Neuroscience. Bellairs Research Institute, Holetown, Barbados. (Invited Speaker & Conference Organizer).

## **MORALES, Carlos**

Carvelli, L., Libin, Y. and **Morales, C.R.** (2015). Prosaposin: a protein with differential sorting and multiple functions. *Histology and Histopathology*; 30(6):647-60. doi: [10.14670/HH-30.647](https://doi.org/10.14670/HH-30.647).

Patel, K.M., Strong, A., Tohyama, J., Jin, X., **Morales, C.R.**, Billheimer, J., Millar, J., Kruth, H. and Rader, D.J. (2015). Macrophage Sortilin Promotes LDL Uptake, Foam Cell Formation, and Atherosclerosis. *Circulation Research*; 116(5):789-96. doi: [10.1161/circresaha.116.305811](https://doi.org/10.1161/circresaha.116.305811).

## **Patents**

A novel therapeutic strategy for the interception pathogens at the site of cell entry. (Filed June 2015)

## **NOEL, Geoffroy**

### **Presentations**

- March 2015            "Going against the Grain: An Anatomy Program for Haitian Medical Students at a Canadian University." International Medical Training; Consortium of Universities for Global Health, Boston, Massachusetts, U.S.A.
- June 2015            "Dissecting out the variables of an interprofessional near peer anatomy teaching experience." American Association of Clinical Anatomists, Henderson, Nevada, U.S.A.
- September 2015.    "Gross morphologic and imaging characteristics of normal cadaveric non-ossified thyroid cartilage on high energy dual-energy CT reconstructions." ENRS 27<sup>th</sup> Annual Meeting, Newport, Rhode Island, U.S.A.

## **POSNER, Barry**

### **Conferences**

- November 30, 2015    World Diabetes Congress, Vancouver, British Columbia. November 30 – December 4, 2015. (Invited Speaker).
- December 2015        2<sup>nd</sup> Zavalkoff Symposium in Israel. (Organization).

## **REINHARDT, Dieter**

Guo, D.C., Gong, L., Regalado, E.S., Santos-Cortez, R.L., Zhao, R., Cai, B., Veeraraghavan, S., Prakash, S.K., Johnson, R.J., Muilenburg, A., Willing, M., Jondeau, G., Boileau, C., Pannu, H., Moran, R., Debacker, J., GenTac Investigators NHLBIGESP, Montalcino Aortic Consortium\*\*, Bamshad, M.J., Shendure, J., Nickerson, D.A., Leal, S.M., Raman, C.S., Swindell, E.C., Milewicz, D.M., (\*\*Reinhardt, D.P. is member of the Montalcino Aortic Consortium). (2015). MAT2A mutations predispose individuals to thoracic aortic aneurysms. *American Journal of Human Genetics*; 96(1):170-177. doi: [10.1016/j.ajhg.2014.11.015](https://doi.org/10.1016/j.ajhg.2014.11.015).

Hinderer, S., Shena, N., Ringuette, L.J., Hansmann, J., Reinhardt, D.P., Brucker, S.Y., Davis, E.C. and Schenke-Layland, K. (2015). In vitro elastogenesis – Instructing human vascular smooth muscle cells to generate an elastic fiber-containing extracellular matrix scaffold. *Biomedical Materials*; 10(3):034102. doi: [10.1088/1748-6041/10/3/034102](https://doi.org/10.1088/1748-6041/10/3/034102).

Hubmacher, D., Wang, L.W., Mecham, R.P., **Reinhardt, D.P.** and Apte, S.S. (2015). Adamtsl2 deletion results in bronchial fibrillin microfibril accumulation and bronchial epithelial dysplasia: A novel mouse model providing insights on geleophysic dysplasia. *Disease Models & Mechanisms*; 8(5):487-499. doi: [10.1242/dmm.017046](https://doi.org/10.1242/dmm.017046).

Kaur, J. and **Reinhardt, D.P.** (2015). Extracellular Matrix Molecules. In *Stem Cell Biology and Tissue Engineering in Dental Sciences* (Vishwakarma, A., Sharpe, P.T., Shi, S., Wang, X., Ramalingam, M. eds.), Elsevier, New York: pp 25-43 (Book chapter). doi: [10.1016/b978-0-12-397157-9.00003-5](https://doi.org/10.1016/b978-0-12-397157-9.00003-5).

Regalado, E.S., Guo, D.C., Prakash, S., Bensend, T.A., Flynn, K., Estrera, A., Safi, H., Liang, D., Hyland, J., Child, A., Arno, G., Boileau, C., Jondeau, G., Braverman, A., Moran, R., Morisaki, T., Morisaki, H., Montalcino Aortic Consortium\*\*, Pyeritz, R., Coselli, J., LeMaire, S. and Milewicz, D.M. (\*\***Reinhardt, D.P.** is member of the Montalcino Aortic Consortium). (2015). Aortic disease presentation and outcome associated with ACTA2 mutations. *Circulation: Cardiovascular Genetics*; 8(3):457-464. doi: [10.1161/circgenetics.114.000943](https://doi.org/10.1161/circgenetics.114.000943).

Zeyer, K. and **Reinhardt, D.P.** (2015). Engineered mutations in fibrillin-1 leading to Marfan syndrome act at the protein and cellular levels. *Mutation Research*; (765):7-18. doi: [10.1016/j.mrrev.2015.04.002](https://doi.org/10.1016/j.mrrev.2015.04.002).

Zeyer, K.A. and **Reinhardt, D.P.** (2015). Fibrillin-containing microfibrils are key signal relay stations for cell function. *Journal of Cell Communication and Signaling*; 9(4):309-325. doi: [10.1007/s12079-015-0307-5](https://doi.org/10.1007/s12079-015-0307-5).

## RIBEIRO, Alfredo

Abdelaziz, D.M., Abdullah, S., Magnussen, C., **Ribeiro-da-Silva, A.**, Komarova, S.V., Rauch, F. and Stone, L.S. (2015). Behavioral signs of pain and functional impairment in a mouse model of osteogenesis imperfecta. *Bone*; 81:400-406. doi: [10.1016/j.bone.2015.08.001](https://doi.org/10.1016/j.bone.2015.08.001).

Bhosle, V.K., Gobeil, F. Jr., Rivera, J.C., **Ribeiro-da-Silva, A.** and Chemtob, S. (2015). High resolution imaging and function of nuclear G protein-coupled receptors (GPCRs). In: *Nuclear G-Protein Coupled Receptors, Methods in Molecular Biology*. (Edited by B.G. Allen and T.E. Hébert). New York: Springer Science, p. 81-97. doi: [10.1007/978-1-4939-1755-6\\_8](https://doi.org/10.1007/978-1-4939-1755-6_8).

Khoutorsky, A., Bonin, R.P., Sorge, R.E., Gkogkas, C., Pawlowski, S.A., Jafarnejad, S.M., Pitcher, M.H., Alain, T., Perez-Sanchez, J., Salter, E.W., Martin, L., **Ribeiro-da-Silva, A.**, De Koninck Y., Cervero F., Mogil J.S. and Sonenberg, N. (2015). Translational control of nociception via 4E-binding protein 1. *eLife*, 2015;4:e12002. doi: [10.7554/eLife.12002](https://doi.org/10.7554/eLife.12002).

Magnussen, C., Hung, S.P. and **Ribeiro-da-Silva, A.** (2015). Novel expression pattern of neuropeptide Y immunoreactivity in the peripheral nervous system in a rat model of neuropathic pain. *Molecular Pain*; 11(1):31. doi: [10.1186/s12990-015-0029-y](https://doi.org/10.1186/s12990-015-0029-y).

Nascimento, F.P., Magnussen, C., Yousefpour, N. and **Ribeiro-da-Silva, A.** (2015). Sympathetic fibre sprouting in the skin contributes to pain-related behaviour in spared nerve injury and cuff models of neuropathic pain. *Molecular Pain* 11(1):59. doi: [10.1186/s12990-018-0062-x](https://doi.org/10.1186/s12990-018-0062-x).

Petitjean, H., Pawlowski, S.A., Fraine, S.L., Sharif, B., Hamad, D., Berg, J., Jan, L.-Y., Ribeiro-da-Silva, A., Braz, J.M., Basbaum, A.I. and Sharif-Naeini, R. (2015). Dorsal horn parvalbumin neurons are gate-keepers of touch evoked pain after nerve injury. *Cell Reports*; 13(6):1246-1257. doi: [10.1016/j.celrep.2015.09.080](https://doi.org/10.1016/j.celrep.2015.09.080).

Saeed, A.W., Pawlowski, S. and Ribeiro-da-Silva, A. (2015). Limited changes in spinal cord lamina I neurons following the cytotoxic ablation of non-peptidergic C-fibres. *Molecular Pain*; 11(1):54. doi: [10.1186/s12990-015-0060-z](https://doi.org/10.1186/s12990-015-0060-z).

## ROUILLER, Isabelle

Kalynych, S., Cherney, M., Bostina, M., Rouiller, I. and Cygler, M. (2015). Quaternary structure of WzzB and WzzE Polysaccharide Co-Polymerases. *Protein Science*; 24(1):58-69. doi: [10.1002/pro.2586](https://doi.org/10.1002/pro.2586).

Marelli, B., Ghezzi, C., Zhang, Y., Rouiller, I., Barralet, J. and Nazhat, S. (2015). Fibril Formation pH Controls Intrafibrillar Collagen Biomineralization In Vitro and In Vivo. *Biomaterials*; 37:252-259. doi: [10.1016/j.biomaterials.2014.10.008](https://doi.org/10.1016/j.biomaterials.2014.10.008).

Mountassif, D., Fabre, L., Zaid, Y., Halawani, D., Sik, A. and Rouiller, I. (2015). Cryo-EM of the pathogenic VCP variant R155P reveals long-range conformational changes in the D2 ATPase ring. *Biochemical and Biophysical Research Communications*; 468(4):636-641. doi: [10.1016/j.bbrc.2015.11.003](https://doi.org/10.1016/j.bbrc.2015.11.003).

## Conferences

- |           |   |
|-----------|---|
| May 2015  | Tomography Reconstruction, Workshop at Annual Meeting of the Microscopical Society of Canada, Hamilton, Ontario. (Invited Lecturer).  |
| May 2015  | “Conformational heterogeneity of the AAA ATPase characterized by single particle cryo-EM.” Annual Meeting of the Microscopical Society of Canada, Hamilton, Ontario, Canada. (Invited Speaker). |
| June 2015 | “Conformational heterogeneity of the AAA ATPase p97 characterized by single particle cryo-EM.” Colloque Société Française des Microscopies, Nice, France. (Invited Speaker).                    |

## SOSSIN, Wayne

Dunn, T.W. and Sossin, W.S. (2015). Decline in the recovery from synaptic depression in heavier Aplysia results from decreased serotonin-induced novel PKC activation. *PLOS One*; 10(8):e0136907. doi: [10.1371/journal.pone.0136907](https://doi.org/10.1371/journal.pone.0136907).

Fiumara, F., Rajasethupathy, P., Antonov, I., Kosmidis, S., Sossin, W.S. and Kandel, E.R. (2015). MicroRNA-22 gates long-term heterosynaptic plasticity in Aplysia through presynaptic regulation of CPEB and downstream targets. *Cell Reports*; 11(12):1866-1875. doi: [10.1016/j.celrep.2015.05.034](https://doi.org/10.1016/j.celrep.2015.05.034).

McAdam, R.L., Varga, K.T., Jiang, Z., Youmg, F.B., Blandford, V., McPherson, P.S., Gong, L.W. and **Sossin, W.S.** (2015). The juxtapamembrane region of synaptotagmin 1 interacts with dynamin 1 and regulates vesicle fission during compensatory endocytosis in endocrine cells. *Journal of Cell Science*; 128(12):2229-2235. doi: [10.1242/jcs.161505](https://doi.org/10.1242/jcs.161505).

McCamphill, P.K., Farah, C.A., Anadolu, M.N., Hoque, S. and **Sossin, W.S.** (2015). Bidirectional control of eEF2 phosphorylation controls synaptic plasticity by decoding neuronal activity patterns. *Journal of Neuroscience*; 35(10):4403-4417. doi: [10.1523/jneurosci.2376-14.2015](https://doi.org/10.1523/jneurosci.2376-14.2015).

## **STIFANI, Stefano**

Chen, X., Wang, J.W., Salin-Cantegrel, A., Dali, R., and **Stifani, S.** (2015). Transcriptional regulation of mouse hypoglossal motor neuron somatotopic map formation. *Brain Structure and Function* 2015 Dec 19; 1-16. doi: [10.1007/s00429-015-1160-2](https://doi.org/10.1007/s00429-015-1160-2).

Verginelli, F., Adesso, L., Limon, I., Alisi, A., Gueguen, M., Panera, N., Giorda, E., Raimondi, L., Ciarapica, R., Campese, A.F., Screpanti, I., **Stifani, S.**, Kitajewski, J., Miele, L., Rota, R., and Locatelli, F. (2015). Activation of an endothelial Notch1-Jagged1 circuit induces VCAM1 expression, an effect amplified by interleukin-1 $\beta$ . *Oncotarget* 2015 Dec 3. doi: [10.18632/oncotarget.6456](https://doi.org/10.18632/oncotarget.6456).

## **Presentations**

- |               |   |
|---------------|---|
| April 2015    | Tianjin Medical University General Hospital. Tianjin, China. (Invited Speaker).                               |
| April 2015    | Tianjin Medical University. Tianjin, China. (Invited Speaker).  |
| May 2015      | 9 <sup>th</sup> Canadian Association of Neuroscience Meeting, Vancouver, British Columbia. (Invited Speaker). |
| November 2015 | Department of Medical Neuroscience. Dalhousie University, Halifax, Nova Scotia. (Invited Speaker).            |

## **VALI, Hojatollah**

Addison, W.N., Nelea, V., Chicatun, F., Chien, Y.C., Tran-Khanh, N., Buschmann, M.D., Nazhat, S.N., Kaartinen, M.T., **Vali, H.**, Tecklenburg, M.M., Franceschi, R.T. and McKee, M.D. (2015). Extracellular matrix mineralization in murine MC3T3-E1 osteoblast cultures: An ultrastructural, compositional and comparative analysis with mouse bone. *Bone*; 71:244-256. doi: [10.1016/j.bone.2014.11.003](https://doi.org/10.1016/j.bone.2014.11.003).

Au, C.E., Hermo, L., Byrne, E., Smirle, J., Fazel, A., Kearney, R.E., Smith, C.E., **Vali, H.**, Fernandez-Rodriguez, J., Simon, P.H.G., Mandato, C., Nilsson, T. and Bergeron, J.J.M. (2015). Compartmentalization of membrane trafficking, glucose transport, glycolysis, actin, tubulin and the proteasome in the cytoplasmic droplet/Hermes body of epididymal sperm. *Open Biology*; 5(8):150080. doi: [10.1098/rsob.150080](https://doi.org/10.1098/rsob.150080).

Au, C.E., Hermo, L., Byrne, E., Smirle, J., Fazel, A., Simon, P.H.G., Kearney, R.E., Cameron, P.H., Smith, C.E., Vali, H., Fernandez-Rodriguez, J., Ma, K.W., Nilsson, T. and Bergeron, J.J.M. (2015). Expression, sorting, and segregation of Golgi proteins during germ cell differentiation in the testis. *Molecular Biology of the Cell*; 26(22):4015-4032. doi: [10.1091/mbc.e14-12-1632](https://doi.org/10.1091/mbc.e14-12-1632).

Fuchs, S., Schumann, D., Williams-Jones, A.E. and Vali, H. (2015). The Growth and Concentration of Uranium and Titanium Minerals in Hydrocarbons of the Carbon Leader Reef, Witwatersrand Supergroup, South Africa. *Chemical Geology*; 393-394:55-56. doi: [10.1016/j.chemgeo.2014.11.018](https://doi.org/10.1016/j.chemgeo.2014.11.018).

Gagne-Bourque, F., Mayer, B.F., Charron, J.-B., Vali, H., Bertrand, A. and Jabaji, S. (2015). Accelerated Growth Rate and Increased Drought Stress Resilience of the Model Grass Brachypodium distachyon Colonized by Bacillus subtilis B26. *PLOS One*; 10(6):e0130456. doi: [10.1371/journal.pone.0130456](https://doi.org/10.1371/journal.pone.0130456).

Karimi, B., Khorasani, M., Rostami, F.B., Elhamifar, D. and Vali, H. (2015). Tungstate Supported on Periodic Mesoporous Organosilica with Imidazolium Framework as an Efficient and Recyclable Catalyst for the Selective Oxidation of Sulfides. *ChemPlusChem*; 80(6):990-999. doi: [10.1002/cplu.201500010](https://doi.org/10.1002/cplu.201500010).

Karimi, B., Khorasani, M., Vali, H. and Luque, R. (2015). Control of plugging in bifunctional periodic mesoporous organosilica with imidazolium framework (BFPMO) via stepwise addition of silica precursors. *Journal of Materials Chemistry A*; 3(12):6575-6585. doi: [10.1039/c4ta06542e](https://doi.org/10.1039/c4ta06542e).

Karimi, B., Khorasani, M., Vali, H., Vargas, C. and Luque, R. (2015). Palladium Nanoparticles Supported in the Nanospaces of Imidazolium-Based Bifunctional PMOs: The Role of Plugs in Selectivity Changeover in Aerobic Oxidation of Alcohols. *ACS Catalysis*; 5(7):4189-4200. doi: [10.1021/acscatal.5b00237](https://doi.org/10.1021/acscatal.5b00237).

Karimi, B., Mirzaei, H.M., Behzadnia, H. and Vali, H. (2015). Novel Ordered Mesoporous Carbon Based Sulfonic Acid as an Efficient Catalyst in the Selective Dehydration of Fructose into 5-HMF: the Role of Solvent and Surface Chemistry. *ACS Applied Materials & Interfaces*; 7(34):19050-19059. doi: [10.1021/acsami.5b03985](https://doi.org/10.1021/acsami.5b03985).

Karimi, B., Mirzaei, H.M., Mobaraki, A. and Vali, H. (2015). Sulfonic acid-functionalized periodic mesoporous organosilicas in esterification and selective acylation reactions. *Catalysis Science & Technology*; 5(7):3624-3631. doi: [10.1039/c5cy00267b](https://doi.org/10.1039/c5cy00267b).

Karimi, B., Rafiee, M., Alizadeh, S. and Vali, H. (2015). Eco-friendly electrocatalytic oxidation of alcohols on a novel electro generated TEMPO-functionalized MCM-41 modified electrode. *Green Chemistry*; 17(2):991-1000. doi: [10.1039/c4gc01303d](https://doi.org/10.1039/c4gc01303d).

Kaushik, M., Basu, K., Benoit, C., Cirtiu, C.M., Vali, H. and Moores, A. (2015). Cellulose Nanocrystals as Chiral Inducers: Enantioselective Catalysis and Transmission Electron Microscopy 3D Characterization. *Journal of the American Chemical Society*; 137(19):6124-6127. doi: [10.1021/jacs.5b02034](https://doi.org/10.1021/jacs.5b02034).

Kazemi, S.H., Karimi, B., Fashi, A., Behzadnia, H. and Vali, H. (2015). Manganese dioxide nanoparticles incorporated within ionic liquid derived fibrillated mesoporous carbon: electrode material for high-performance supercapacitors. *RSC Advances*; 5(103):84840-84848. doi: [10.1039/c5ra16923b](https://doi.org/10.1039/c5ra16923b).

- Mahmoudi, M., Sheibani, S., Milani, A., Dinarvand, R., Rezaee, F., Gauberti, M. and **Vali, H.** (2015). Crucial role of protein corona for specific targeting of nanoparticles. *Nanomedicine*; 10(2):215-226. doi: [10.2217/nnm.14.69](https://doi.org/10.2217/nnm.14.69).
- Modiri, S., Sharafi, H., Alidoust, L., Hajfarajollah, H., Haghghi, O., Azarivand, A., Zamanzadeh, Z., Zahiri, H.S., **Vali, H.** and Kambiz Noghabi, A. (2015). Lipid production and mixotrophic growth features of cyanobacterial strains isolated from various aquatic sites. *Microbiology*; 161(3):662-673. doi: [10.1099/mic.0.000025](https://doi.org/10.1099/mic.0.000025).
- Padda, R.S., Gkouvatsos, K., Guido, M., Mui, J., **Vali, H.** and Pantopoulos, K. (2015). A high-fat diet modulates iron metabolism but does not promote liver fibrosis in hemochromatotic Hjv(-/-) mice. *American Journal of Physiology: Gastrointestinal and Liver Physiology*; 308(4): G251-G261. doi: [10.1152/ajpgi.00137.2014](https://doi.org/10.1152/ajpgi.00137.2014).
- Rahn-Lee, L., Byrne, M.B., Zhang, M., Le Sage, D., Glenn, D.R., Milbourne, T., Walsworth, R.L., **Vali, H.** and Komeili, A. (2015). A Genetic Strategy for Probing the Functional Diversity of Magnetosome Formation. *PLOS Genetics*; 11(1):e100481. doi: [10.1371/journal.pgen.1004811](https://doi.org/10.1371/journal.pgen.1004811).
- Sheibani, S., Jones, N.K., Eid, R., Gharib, N., Arab, N.T.T., Titorenko, V., **Vali, H.**, Young, P.A. and Greenwood, M.T. (2015). Inhibition of stress mediated cell death by human lactate dehydrogenase B in yeast. *FEMS Yeast Research*; 15(5):fov032. doi: [10.1093/femsyr/fov032](https://doi.org/10.1093/femsyr/fov032).
- Tzelepis, F., Verway, M., Daoud, J., Gillard, J., Hassani-Ardakani, K., Dunn, J., Downey, J., Gentile, M.E., Jaworska, J., Sanchez, A.M., Nédélec, Y., **Vali, H.**, Tabrizian, M., Kristof, A.S., King, I.L., Barreiro, L.B. and Divangahi, M. (2015). Annexin1 regulates DC efferocytosis and cross-presentation during Mycobacterium tuberculosis infection. *Journal of Clinical Investigation*; 125(2):752-768. doi: [10.1172/jci77014](https://doi.org/10.1172/jci77014).
- Vahabi, A., Ramezanianpour, A.A., Sharafi, H., Zahiri, H.S., **Vali, H.** and Noghabi, K.A. (2015). Calcium carbonate precipitation by strain *Bacillus licheniformis* AK01, newly isolated from loamy soil: a promising alternative for sealing cement-based materials. *Journal of Basic Microbiology*; 55(1):105-111. doi: [10.1002/jobm.201300560](https://doi.org/10.1002/jobm.201300560).
- Wan, J., Basu, K., Mui, J., **Vali, H.**, Zheng, H.Q. and Laliberte, J.F. (2015). Ultrastructural Characterization of Turnip Mosaic Virus-Induced Cellular Rearrangements Reveals Membrane-Bound Viral Particles Accumulating in Vacuoles. *Journal of Virology*; 89(24):12441-12456. doi: [10.1128/JVI.02138-15](https://doi.org/10.1128/JVI.02138-15).

## VENTURA, Nicole

- Aasa, K.L., Zavan, B., Luna, R.L., Wong, P.G., **Ventura, N.M.**, Tse, M.Y., Carmeliet, P., Adams, M.A., Pang, S.C. and Croy, B.A. (2015). Placental growth factor influences maternal cardiovascular adaptation in pregnancy in mice. *Biology of Reproduction*; 92(2):44. doi: [10.1095/biolreprod.114.124677](https://doi.org/10.1095/biolreprod.114.124677).
- Ventura, N.M.**, Jin, A.Y., Tse, M.Y., Peterson, N.T., Andrew, R.D. and Pang, S.C. (2015). Maternal hypertension programs increased cerebral tissue damage follow stroke in adult offspring. *Molecular and Cellular Biochemistry*; 408(1):223-233. doi: [10.1007/s11010-015-2498-8](https://doi.org/10.1007/s11010-015-2498-8).

**Ventura, N.M.**, Peterson, N.T., Tse, M.Y., Andrew, R.D., Pang, S.C. and Jin, A.Y. (2015). Molecular adaptations in vasoactive systems during acute stroke in salt-induced hypertension. *Molecular and Cellular Biochemistry*; 399(1):39-47. doi: [10.1007/s11010-014-2230-0](https://doi.org/10.1007/s11010-014-2230-0).

---

**WALKER, Claire Dominique**

---

Israel, M., Klein, M., Pruessner, J., Thaler, L., Spilka, M., Efanov, S., Ouellette, A.S., Berlim, M., Ali, N., Beaudry, T., Van den Eynde, F., **Walker, C.D.** & Steiger, H. (2015). N-back task performance corresponding brain-activation patterns in women with restrictive and bulimic eating-disorder variants. Preliminary findings. *Psychiatry Res*; 232(1):84-91. doi: [10.1016/j.psychresns.2015.01.022](https://doi.org/10.1016/j.psychresns.2015.01.022).

## **EMERITUS PUBLICATIONS**

### **MILLER, Sandra**

Durairaj, P., Shan, J.J. and **Miller, S.C.** (2015). Reversal of alopecia in a mouse model of human hair loss by daily, dose-dependent, dietary administration of a proprietary extract of North American ginseng (*Panax Quinquefolius*): Maintenance of hair after extract withdrawal. *Issues in Biological Sciences and Pharmaceutical Research*; 3(1): 5-13.  
doi: [10.15739/ibspr.007](https://doi.org/10.15739/ibspr.007)

### **Presentations**

August 2015            "Daily feeding of a proprietary extract (CVT-E002) of North American ginseng results in progressive, non-obese body weight gains in pre-cancerous and carcinogen-injected mice: A possible role for CVT-E002 in abating cancer cachexia?" Annual conference of the NHPRS (Natural Health Products Research Society). (Invited Speech).

### **SMITH, Charles E.**

Au, C.E., Hermo, L., Byrne, E., Smirle, J., Fazel, A., Simon, P.H., Kearney, R.E., Cameron, P.H., **Smith, C.E.**, Vali, H., Fernandez-Rodriguez, J., Ma, K., Nilsson, T. and Bergeron, J.J. (2015). Expression, sorting and segregation of Golgi proteins during germ cell differentiation in the testis. *Molecular Biology of the Cell*; 26(22):4015-4032. doi: [10.1091/mbc.e14-12-1632](https://doi.org/10.1091/mbc.e14-12-1632).

Au, C.E., Hermo, L., Smirle, J., Byrne, E., Fazel, A., Kearney, R.E., **Smith, C.E.**, Vali, H., Fernandez-Rodriguez, J., Simon, P.H., Mandato, C., Nilsson, T. and Bergeron, J.J. (2015). Compartmentalization of membrane trafficking, glucose transport, glycolysis, actin, tubulin and the proteasome in the cytoplasmic body droplet/Hermes body of epididymal sperm. *Open Biology*; 5(8):150080. doi: [10.1098/rsob.150080](https://doi.org/10.1098/rsob.150080).

Nurbaeva, M.K., Eckstein, M., Concepcion, A.R., **Smith, C.E.**, Srikanth, S., Paine, M.L., Gwack, Y., Hubbard, M.J., Feske, S. and Lacruz, R.S. (2015). Dental enamel cells express functional SOCE channels. *Scientific Reports*; 5:15803. doi: [10.1038/srep15803](https://doi.org/10.1038/srep15803).

Wang, S-K., Hu, Y., Yang, J., **Smith, C.E.**, Nunez, S.M., Richardson, A.S., Pal, S., Samann, A.C., Hu, J.C-C. and Simmer, J.P. (2015). Critical roles for WDR72 in calcium transport and matrix protein removal during enamel maturation. *Molecular Genetics and Genomic Medicine*; 3(4):302-19. doi: [10.1002/mgg3.143](https://doi.org/10.1002/mgg3.143).

Wang, S-K., Hu, Y., Yang, J., **Smith, C.E.**, Richardson, A.S., Yamakoshi, Y., Lee, Y-L., Seymen, F., Koruyucu, M., Gencay, K., Lee, M., Choi, M., Kim, J-W., Hu, J.C-C. and Simmer, J.P. (2015). Fam83h null mice support a neomorphic mechanism for human ADHCA1. *Molecular Genetics and Genomic Medicine*; 4(1):46-67. doi: [10.1002/mgg3.178](https://doi.org/10.1002/mgg3.178).