

---

---

# **PUBLICATION LIST**

## **2014**

**Department of Pharmacology and Toxicology  
Faculty of Medicine  
University of Toronto**



## Contents

Al-Awar R.....	3
Andreazza AC.....	3
Arnot J.....	4
Boutros PC.....	5
Brands B.....	7
Burnham WM.....	8
Busto U.....	8
Endrenyi L.....	8
Finkelstein Y.....	9
George SR.....	9
Goldstein BI.....	10
Grant DM.....	12
Hampson D.....	12
Higgins G.....	13
Ito S.....	13
Koren G (95).....	13
Lanctôt KL.....	15
Le AD.....	16
Le Foll B.....	17
Matthews J.....	18
McPherson JP.....	19
McIntyre RS (41).....	19
Milgram NW.....	21
Mitchell J.....	21
Mittmann N.....	21
Neuman MG.....	21
Nobrega JN.....	22
Nulman I.....	23
Nobrega JN.....	23
O'Dowd BF.....	25
Okey AB.....	25
Pace-Asciak CR.....	26
Pang KS.....	26
Parker JD.....	26
Piquette-Miller M.....	26
Pollock MD.....	27
Ramsey AJ.....	28
Ross RA.....	29
Roy PJ.....	29
Salahpour A.....	29
Salmena L.....	30
Schapira M.....	30
Seeman P.....	31
Semple JW.....	31
Shear NH.....	32
Sun HS.....	33

<b>Swardfager W</b> .....	33
<b>Tong Y</b> .....	34
<b>Tyndale RF (33)</b> .....	35
<b>Utrecht JP</b> .....	37
<b>Vedadi M</b> .....	38
<b>Verma S</b> .....	39
<b>Wallace JL</b> .....	40
<b>Wells PG</b> .....	41
<b>Wong AH</b> .....	41
<b>Young T</b> .....	41
<b>Zack M</b> .....	42
<b>Zawertailo L</b> .....	43
<b>Zelner I</b> .....	43
<b>Ph.D. Theses - Pharmacology Dept., University of Toronto (2014)</b> .....	43
<b>M.Sc. Theses - Pharmacology Dept., University of Toronto (2014)</b> .....	44

**Al-Awar R**

Liu JC, Voisin V, Wang S, Wang DY, Jones RA, Datti A, Uehling D, **Al-awar R**, Egan SE, Bader GD, Tsao M, Mak TW, Zacksenhaus E. Combined deletion of Pten and p53 in mammary epithelium accelerates triple-negative breast cancer with dependency on eEF2K. *EMBO Mol Med.*; 6(12):1542-60, 2014.

Barsyte-Lovejoy D, Li F, Oudhoff MJ, Tatlock JH, Dong A, Zeng H, Wu H, Freeman SA, Schapira M, Senisterra GA, Kuznetsova E, Marcellus R, Allali-Hassani A, Kennedy S, Lambert JP, Couzens AL, Aman A, Gingras AC, **Al-Awar R**, Fish PV, Gerstenberger BS, Roberts L, Benn CL, Grimley RL, Braam MJ, Rossi FM, Sudol M, Brown PJ, Bunnage ME, Owen DR, Zaph C, Vedadi M, Arrowsmith CH. (R)-PFI-2 is a potent and selective inhibitor of SETD7 methyltransferase activity in cells. *Proc Natl Acad Sci U S A.*; 111(35):12853-8, 2014.

Sanches M, Duffy NM, Talukdar M, Thevakumaran N, Chiovitti D, Canny MD, Lee K, Kurinov I, Uehling D, **Al-awar R**, Poda G, Prakesch M, Wilson B, Tam V, Schweitzer C, Toro A, Lucas JL, Vuga D, Lehmann L, Durocher D, Zeng Q, Patterson JB, Sicheri F. Structure and mechanism of action of the hydroxy-aryl-aldehyde class of IRE1 endoribonuclease inhibitors. *Nat Commun.*; 5:4202, 2014.

Deng T, Liu JC, Chung PE, Uehling D, Aman A, Joseph B, Ketela T, Jiang Z, Schachter NF, Rottapel R, Egan SE, **Al-Awar R**, Moffat J, Zacksenhaus E. shRNA kinome screen identifies TBK1 as a therapeutic target for HER2+ breast cancer. *Cancer Res.*; 74(7):2119-30, 2014.

**Andreazza AC**

Nascimento C, Kim HK, Young LT, Mendonça KM, Grinberg LT, Lafer B, **Andreazza AC**. Glutathione-mediated effects of lithium in decreasing protein oxidation induced by mitochondrial complex I dysfunction. *J Neural Transm.*; 122(6):741-6, 2014.

Andreazza AC, Gildengers A, Rajji TK, Zuzarte PM, Mulsant BH, Young LT. Oxidative stress in older patients with bipolar disorder. *Am J Geriatr Psychiatry.*; 23(3):314-9, 2014.

Scola G, **Andreazza AC**. The role of neurotrophins in bipolar disorder. *Prog Neuropsychopharmacol Biol Psychiatry.*; 56:122-8, 2014.

Gonçalves VF, Andreazza AC, Kennedy JL. Mitochondrial dysfunction in schizophrenia: an evolutionary perspective. *Hum Genet.*; 134(1):13-21, 2014.

Scola G, **Andreazza AC**. Current state of biomarkers in bipolar disorder. *Curr Psychiatry Rep.*; 16(12):514, 2014.

Scola G, Laliberte VL, Kim HK, Pinguelo A, Salvador M, Young LT, **Andreazza AC**. Vitis labrusca extract effects on cellular dynamics and redox modulations in a SH-SY5Y neuronal cell model: a similar role to lithium. *Neurochem Int.*; 79:12-9, 2014.

Scola G, Kim HK, Young LT, Salvador M, **Andreazza AC**. Lithium reduces the effects of rotenone-induced complex I dysfunction on DNA methylation and hydroxymethylation in rat cortical primary neurons. *Psychopharmacology (Berl.)*; 231(21):4189-98, 2014.

Brown NC, **Andreazza AC**, Young LT. An updated meta-analysis of oxidative stress markers in bipolar disorder. *Psychiatry Res.*; 218(1-2):61-8, 2014.

Berk M, Williams LJ, **Andreazza AC**, Pasco JA, Dodd S, Jacka FN, Moylan S, Reiner EJ, Magalhaes PV. Pop, heavy metal and the blues: secondary analysis of persistent organic pollutants (POP), heavy metals and depressive symptoms in the NHANES National Epidemiological Survey. *BMJ Open.*; 4(7):e005142, 2014.

**Andreazza AC**, Young LT. The neurobiology of bipolar disorder: identifying targets for specific agents and synergies for combination treatment. *Int J Neuropsychopharmacol.*; 17(7):1039-52, 2014.

Kim HK, **Andreazza AC**, Yeung PY, Isaacs-Trepanier C, Young LT. Oxidation and nitration in dopaminergic areas of the prefrontal cortex from patients with bipolar disorder and schizophrenia. *J Psychiatry Neurosci.*; 39(4):276-85, 2014.

Huzayyin AA, **Andreazza AC**, Turecki G, Cruceanu C, Rouleau GA, Alda M, Young LT. Decreased global methylation in patients with bipolar disorder who respond to lithium. *Int J Neuropsychopharmacol.*; 17(4):561-9, 2014.

Versace A, **Andreazza AC**, Young LT, Fournier JC, Almeida JR, Stiffler RS, Lockovich JC, Aslam HA, Pollock MH, Park H, Nimgaonkar VL, Kupfer DJ, Phillips ML. Elevated serum measures of lipid peroxidation and abnormal prefrontal white matter in euthymic bipolar adults: toward peripheral biomarkers of bipolar disorder. *Mol Psychiatry.*; 19(2):200-8, 2014.

Immunological and neurotrophic markers of risk status and illness development in high-risk youth: understanding the neurobiological underpinnings of bipolar disorder. Duffy A, et al. *Int J Bipolar Disord.* 2014.

### **Arnot J**

Zhang X, **Arnot JA**, Wania F. Model for screening-level assessment of near-field human exposure to neutral organic chemicals released indoors. *Environ Sci Technol.*; 48(20):12312-9, 2014.

Mackay D, McCarty LS, **Arnot JA**. Relationships between exposure and dose in aquatic toxicity tests for organic chemicals. *Environ Toxicol Chem.*; 33(9):2038-46, 2014.

Armitage JM, Wania F, **Arnot JA**. Application of mass balance models and the chemical activity concept to facilitate the use of in vitro toxicity data for risk assessment. *Environ Sci Technol.*; 48(16):9770-9, 2014.

Papa E, van der Wal L, **Arnot JA**, Gramatica P. Metabolic biotransformation half-lives in fish: QSAR modeling and consensus analysis. *Sci Total Environ.*; 470-471:1040-6, 2014.

**Arnot JA**, Brown TN, Wania F. Estimating screening-level organic chemical half-lives in humans. *Environ Sci Technol.*; 48(1):723-30, 2014.

Mackay D, **Arnot JA**, Celsie A, Oraziotti A, Parnis JM. QSARs for aquatic toxicity: celebrating, extending and displaying the pioneering contributions of Ferguson, Konemann and Veith. *SAR QSAR Environ Res.*; 25(5):343-55, 2014.

McLachlan MS, Kierkegaard A, Radke M, Sobek A, Malmvärn A, Alsberg T, **Arnot JA**, Brown TN, Wania F, Breivik K, Xu S. Using model-based screening to help discover unknown environmental contaminants. *Environ Sci Technol.*; 48(13):7264-, 2014.

### **Boutros P**

Ignatchenko V, Ignatchenko A, Sinha A, **Boutros PC**, Kislinger T “VennDIS: A JavaFX-based Venn and Euler Diagram Software to Generate Publication Quality Figures” *Proteomics* 15(7):1239-1244m 2014.

Houlahan KE, Prokopec SD, Moffat ID, Linden J, Lensu S, Okey AB, Pohjanvirta R, **Boutros PC** “Transcriptional Profiling of Rat Hypothalamus Response to 2,3,7,8-tetrachlorodibenzo-p-dioxin” *Toxicology* 328(C):93-101, 2014.

Sun RX, Chong LC, Simmons TT, Houlahan KE, Prokopec SD, Watson JD, Moffat ID, Lensu S, Linden J, P'ng C, Okey AB, Pohjanvirta R, **Boutros PC** “Cross-Species Transcriptomic Analysis Elucidates Constitutive Aryl Hydrocarbon Receptor Activity” *BMC Genomics* 15(1):1053, 2014.

Lalonde E, Ishkanian AS, Sykes J, Fraser M, Ross-Adams H, Erho N, Dunning MJ, Lamb AD, Moon NC, Zafarana G, Warren AY, Meng X, Thoms J, Grzadkowski MR, Berlin A, Have CL, Ramnarine VR, Yao CQ, Malloff CA, Lam LL, Xie H, Harding NJ, Mak DY, Chu KC, Chong LC, Sendorek DH, P'ng C, Collins CC, Squire JA, Jurisica I, Cooper C, Eeles R, Pintilie M, Dal Pra A, Davicioni E, Lam WL, Milosevic M, Neal DE, van der Kwast T, **Boutros PC**, Bristow RG (2014) “Tumour genomic and microenvironmental heterogeneity as integrated predictors for prostate cancer recurrence: a retrospective study” *Lancet Oncology* 15(13):1521-1532 , 2014.

Nichols AC, Black M, Yoo J, Pinto N, Fernandes A, Haibe-Kains B, **Boutros PC**, Barrett JW (2014) “Exploiting high-throughput cell line drug screening studies to identify candidate therapeutic agents in head and neck cancer” *BMC Pharmacology and Toxicology* 15(1):66, 2014.

Berlin A, Lalonde E, Sykes J, Zafarana G, Chu KC, Ramnarine VR, Ishkanian A, Sendorek DH, Pasic I, Lam WL, Jurisica I, van der Kwast T, Milosevic M, **Boutros PC**, Bristow RG (2014) “NBN Gain Is Predictive for Adverse Outcome Following Image-Guided Radiotherapy for Localized Prostate Cancer” *Oncotarget* 5(22):11081-, 2014.

van den Beucken, Koch E, Chu K, Rupaimoole R, Prickaerts P, Adriaens M, Voncken JW, Harris AL, Buffa FM, Haider S, Starmans MHW, Yao CQ, Ivan M, Ivan C, Pecot CV, **Boutros PC**, Sood AK, Koritzinsky M, Wouters BG (2014) “Hypoxia promotes stem cell phenotypes and poor prognosis through epigenetic regulation of DICER” *Nature Communications* 5:5203, 2014.

Prokopec SD, Watson JD, Pohjanvirta R, **Boutros PC** (2014) “Identification of reference proteins for western blot analyses in mouse model systems of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) toxicity” *PLoS One* 9(10):e110730, 2014.

Parfenov M, Peadarallu CS, Gehlenborg N, Freeman SS, Danilova L, Bristow CA, Lee S, Hadjipanayis AG, Ivanova EV, Wilkerson MD, Protopopov A, Yang L, Seth S, Song X, Tang J, Ren X, Zhang J, Pantazi A, Santoso N, Xu AW, Mahadeshwar H, Wheeler DA, Haddad RI, Jung J, Ojesina AI, Issaeva N, Yarbrough WG, Hayes DN, Grandis JR, El-Naggar AK, Meyerson M, Park PJ, Chin L, Seidman JG, Hammerman PS, Kucherlapati R; The Cancer Genome Atlas Network “Characterization of HPV and host genome interactions in primary head and neck cancers” *Proceedings of the National Academy of Sciences* 111(43): 15544-15549, 2014.

Sepiashvili L, Waggott D, Hui A, Shi W, Su S, Ignatchenko A, Ignatchenko V, Laureano M, Huang SH, Xu W, Weinreb I, Waldron J, O’Sullivan B, Irish JC, **Boutros PC**, Liu FF, Kislinger T. “Integrated omic analysis of oropharyngeal carcinomas reveals HPV-dependent regulation of the AP-1 pathway” *Molecular & Cellular Proteomics* 13(12):3572-3584, 2014.

Weinreb I, Piscuoglio S, Martelotto LG, Waggott D, Ng CK, Perez-Ordóñez B, Harding NJ, Alfaro J, Chu KC, Viale A, Fusco N, da Cruz Paula A, Marchio C, Sakr RA, Lim R, Thompson LD, Chiosea SI, Seethala RR, Skalova A, Stelow EB, Fonseca I, Assaad A, How CH, Wang J, de Borja R, Chan-Seng-Yue M, Howlett CJ, Nichols AC, Wen YH, Katabi N, Buchner N, Mullen L, Kislinger T, Wouters BG, Liu FF, Norton L, McPherson JD, Rubin BP, Clarke BA, Weigelt B, **Boutros PC**, Reis-Filho JS. “Hotspot activating PRKD1 somatic mutations in polymorphous low-grade adenocarcinomas of the salivary glands” *Nature Genetics* 46(11):1166-1169, 2014.

Chong LC, Albuquerque MA, Harding NJ, Caloian C, Chan-Seng-Yue M, de Borja R, Fraser M, Denroche RE, Beck TA, van der Kwast T, Bristow RG, McPherson JD, **Boutros PC** (2014) “SeqControl: Process Control for DNA Sequencing” *Nature Methods* 11(10):1071-1075, 2014.

Weinreb I, Zhang L, Tirunagari LM, Sung YS, Chen LC, Perez-Ordóñez B, Clarke BA, Skalova A, Chiosea SI, Seethala RR, Waggott D, **Boutros PC**, How C, Liu FF, Irish JC, Goldstein DP, Gilbert R, Ud Din N, Assaad A, Hornick JL, Thompson LD, Antonescu CR. “Novel PRKD gene rearrangements and variant fusions in cribriform adenocarcinoma of salivary gland origin” *Genes Chromosomes and Cancer* 53(10):845-856, 2014.

Fox NS, Starmans MH, Haider S, Lambin P, **Boutros PC**. “Ensemble analyses improve signatures of tumour hypoxia and reveal inter-platform differences” *BMC Bioinformatics* 15(1):170, 2014.

Coschi CH, Ishak CA, Gallo D, Marshall A, Talluri S, Wang J, Cecchini MJ, Martens AL, Percy V, Welch I, **Boutros PC**, Brown GW, Dick FA. "Haploinsufficiency of an RB-E2F1-Condensin II complex leads to aberrant replication and aneuploidy" *Cancer Discovery* 4(7):840-853, 2014.

Govind SK, Zia A, Hennings-Yeomans PH, Watson JD, Fraser M, Anghel C, Wyatt AW, van der Kwast T, Collins CC, McPherson JD, Bristow RG, **Boutros PC**. "ShatterProof: operational detection and quantification of chromothripsis" *BMC Bioinformatics* 15(1):78, 2014.

Hoeben BA, Starmans MH, Leijenaar RT, Dubois LJ, van der Kogel AJ, Kaanders JH, **Boutros PC**, Lambin P, Bussink J. "Systematic analysis of <sup>18</sup>F-FDG PET and metabolic, proliferation and hypoxia markers for differentiation between head and neck tumors" *BMC Cancer* 14(1):130, 2014.

Miller JK, Buchner N, Timms L, Tam S, Luo X, Brown AMK, Pasternack D, Bristow RG, Fraser M, **Boutros PC**, McPherson JD. "Use of Sequenom Sample ID Plus® SNP genotyping in identification of FFPE tumor samples" *PLoS One* 9(2):e88163, 2014.

Watson JD, Prokopec SD, Smith AB, Okey AB, Pohjanvirta R, **Boutros PC**. "TCDD dysregulation of 13 AHR-target genes in rat liver" *Toxicology and Applied Pharmacology* 274(3):445-454, 2014.

Goard CA, Chan-Seng-Yue M, Mullen PJ, Quiroga AD, Wasylishen AR, Clendening JW, Sendorek DH, Haider S, Lehner R, **Boutros PC**, Penn LZ. "Identifying molecular features that distinguish fluvastatin-sensitive breast tumor cells" *Breast Cancer Research and Treatment* 143(2):301-12, 2014.

Peltekova VD, Lemire M, Qazi AM, Zaidi SH, Trinh QM, Bielecki R, Rogers M, Hodgson L, Wang M, D'Souza DJ, Zandi S, Chong T, Kwan JY, Kozak K, de Borja R, Timms L, Rangrej J, Volar M, Chan-Seng-Yue M, Beck T, Ash C, Lee S, Wang J, **Boutros PC**, Stein LD, Dick JE, Gryfe R, McPherson JD, Zanke BW, Pollett A, Gallinger S, Hudson TJ. "Identification of genes expressed by immune cells of the colon that are regulated by colorectal cancer-associated variants" *International Journal of Cancer* 134(10):2330-2341, 2014.

## **Brands B**

Sayer G, Ialomiteanu A, Stoduto G, Wickens CM, Mann RE, Le Foll B, **Brands B**. Increased collision risk among drivers who report driving after using alcohol and after using cannabis. *Can J Public Health.*; 105(1):e92-3. PubMed PMID: 24735704, 2014.

Stoduto, G., Mann, R.E., Flam-Zalcman, R., Sharpley, J., **Brands, B.**, Butters, J., Smart, R.G., Wickens, C.M., Ilie, G., Thomas, R.K., Impact of Ontario's remedial program for drivers convicted of drinking and driving on substance use and problems. *Canadian Journal of Criminology and Criminal Justice (Special Issue)*; 56(2): 201-217, 2014.



### **Burnham WM**

Trépanier MO, Lim J, Lai TK, Cho HJ, Domenichiello AF, Chen CT, Taha AY, Bazinet RP, Burnham WM. Intraperitoneal administration of docosahexaenoic acid for 14days increases serum unesterified DHA and seizure latency in the maximal pentylenetetrazol model. *Epilepsy Behav.*; 33:138-43, 2014.

Thompson MD, Cole DE, Capra V, Siminovitch KA, Rovati GE, Burnham WM, Rana BK. Pharmacogenetics of the G protein-coupled receptors. *Methods Mol Biol.*; 1175:189-242, 2014.

### **Busto U**

Le Foll B, Guranda M, Wilson AA, Houle S, Rusjan PM, Wing VC, Zawertailo L, **Busto U**, Selby P, Brody AL, George TP, Boileau I. Elevation of dopamine induced by cigarette smoking: novel insights from a [11C]-+PHNO PET study in humans. *Neuropsychopharmacology.*; 39(2):415-24, 2014.

### **Endrenyi L**

Şardaş S, **Endrenyi L**, Gürsoy UK, Hutz M, Lin B, Patrinos GP, Steuten LM, Wang W, Warnich L, Özdemir V. A call for pharmacogenovigilance and rapid falsification in the age of big data: why not first road test your biomarker? *OMICS.*; 18(11):663-5, 2014.

Hekim N, Coşkun Y, Snav A, Abou-Zeid AH, Ağırbaşı M, Akintola SO, Aynacıoğlu Ş, Bayram M, Bragazzi NL, Dandara C, Dereli T, Dove ES, Elbeyli L, **Endrenyi L**, Erciyas K, Faris J, Ferguson LR, Göğüş F, Güngör K, Gürsoy M, Gürsoy UK, Karaömerlioğlu MA, Kickbusch I, Kılıç T, Kılınç M, Kocagöz T, Lin B, Llerena A, Manolopoulos VG, Nair B, Özkan B, Pang T, Şardaş Ş, Srivastava S, Toraman C, Üstün K, Warnich L, Wonkam A, Yakıcıer MC, Yaşar Ü, Özdemir V. Translating biotechnology to knowledge-based innovation, peace, and development? Deploy a Science Peace Corps--an open letter to world leaders. *OMICS.*; 18(7):415-20, 2014.

Tóthfalusi L, **Endrényi L**, Chow SC. Statistical and regulatory considerations in assessments of interchangeability of biological drug products. *Eur J Health Econ.*; 15 Suppl 1:S5-11., 2014.

Ozdemir V, **Endrenyi L**, Aynacıoğlu S, Bragazzi NL, Dandara C, Dove ES, Ferguson LR, Geraci CJ, Hafen E, Kesim BE, Kolker E, Lee EJ, Llerena A, Nacak M, Shimoda K, Someya T, Srivastava S, Tomlinson B, Vayena E, Warnich L, Yaşar U. Bernard Lerer: recipient of the 2014 inaugural Werner Kalow Responsible Innovation Prize in Global Omics and Personalized Medicine (Pacific Rim Association for Clinical Pharmacogenetics). *OMICS.*; 18(4):211-21, 2014.

Chow SC, **Endrenyi L**, Lachenbruch PA, Mentre F. Scientific factors and current issues in biosimilar studies. *J. Biopharm Stat.*; 24: 1138-1153, 2014.

**Finkelstein Y**

Khwaja OS, Ho E, Barnes KV, O'Leary HM, Pereira LM, **Finkelstein Y**, Nelson CA 3rd, Vogel-Farley V, DeGregorio G, Holm IA, Khatwa U, Kapur K, Alexander ME, Finnegan DM, Cantwell NG, Walco AC, Rappaport L, Gregas M, Fichorova RN, Shannon MW, Sur M, Kaufmann WE. Safety, pharmacokinetics, and preliminary assessment of efficacy of mecasermin (recombinant human IGF-1) for the treatment of Rett syndrome. *Proc Natl Acad Sci U S A.*;111(12):4596-601, 2014.

**Finkelstein Y**, Macdonald EM, Juurlink DN. Recurrence of Stevens-Johnson syndrome and toxic epidermal necrolysis--reply. *JAMA.*; 312(15):1591, 2014.

Imazio M, Brucato A, Ferrazzi P, Pullara A, Adler Y, Barosi A, Caforio AL, Cemin R, Chirillo F, Comoglio C, Cugola D, Cumetti D, Dyrda O, Ferrua S, **Finkelstein Y**, Flocco R, Gandino A, Hoit B, Innocente F, Maestroni S, Musumeci F, Oh J, Pergolini A, Polizzi V, Ristic A, Simon C, Spodick DH, Tarzia V, Trimboli S, Valenti A, Belli R, Gaita F; COPPS-2 Investigators. Colchicine for prevention of postpericardiotomy syndrome and postoperative atrial fibrillation: the COPPS-2 randomized clinical trial. *JAMA.*; 312(10):1016-23, 2014.

Fischer JW, **Finkelstein Y**. Images in emergency medicine. Young child with strabismus. Retinoblastoma. *Ann Emerg Med.*; 64(2):213, 217, 2014.

Freedman SB, Uleryk E, Rumantir M, **Finkelstein Y**. Ondansetron and the risk of cardiac arrhythmias: a systematic review and postmarketing analysis. *Ann Emerg Med.*; 64(1):19-25.e6, 2014.

Tricco AC, Cogo E, Angeliki VA, Soobiah C, Hutton B, Hemmelgarn BR, Moher D, **Finkelstein Y**, Straus SE. Comparative safety of anti-epileptic drugs among infants and children exposed in utero or during breastfeeding: protocol for a systematic review and network meta-analysis. *Syst Rev.*; 3:68, 2014.

**Finkelstein Y**, Macdonald EM, Li P, Hutson JR, Juurlink DN. Recurrence and mortality following severe cutaneous adverse reactions. *JAMA.*; 311(21):2231-2, 2014.

Tricco AC, Antony J, Angeliki VA, Ashoor H, Hutton B, Hemmelgarn BR, Moher D, **Finkelstein Y**, Gough K, Straus SE. Safety and effectiveness of antiretroviral therapies for HIV-infected women and their infants and children: protocol for a systematic review and network meta-analysis. *Syst Rev.*; 3:51, 2014.

**George SR**

Perreault ML, Shen MY, Fan T, **George SR**. Regulation of c-fos expression by the dopamine D1-D2 receptor heteromer. *Neuroscience.*; 285:194-203, 2014.

Shen MY, Perreault ML, Fan T, **George SR**. The dopamine D1-D2 receptor heteromer exerts a tonic inhibitory effect on the expression of amphetamine-induced locomotor sensitization. *Pharmacol Biochem Behav.*; 128:33-40, 2014.

Hasbi A, Perreault ML, Shen MY, Zhang L, To R, Fan T, Nguyen T, Ji X, O'Dowd BF, **George SR**. A peptide targeting an interaction interface disrupts the dopamine D1-D2 receptor heteromer to block signaling and function in vitro and in vivo: effective selective antagonism. *FASEB J.*; 28(11):4806-20, 2014.

Kabli N, Nguyen T, Balboni G, O'Dowd BF, **George SR**. Antidepressant-like and anxiolytic-like effects following activation of the  $\mu$ - $\delta$  opioid receptor heteromer in the nucleus accumbens. *Mol Psychiatry.*; 19(9):986-94, 2014.

Cheung EN, **George SR**, Costain GA, Andrade DM, Chow EW, Silversides CK, Bassett AS. Prevalence of hypocalcaemia and its associated features in 22q11.2 deletion syndrome. *Clin Endocrinol (Oxf).*; 81(2):190-6, 2014.

Kabli N, Fan T, O'Dowd BF, **George SR**.  $\mu$ - $\delta$  opioid receptor heteromer-specific signaling in the striatum and hippocampus. *Biochem Biophys Res Commun.*; 450(1):906-11, 2014.

Finnema SJ, Stepanov V, Nakao R, Sromek AW, Zhang T, Neumeyer JL, George SR, Seeman P, Stabin MG, Jonsson C, Farde L, Halldin C. (18)F-MCL-524, an (18)F-Labeled Dopamine D2 and D3 Receptor Agonist Sensitive to Dopamine: A Preliminary PET Study. *J Nucl Med.*; 55(7):1164-70, 2014.

Perreault ML, O'Dowd BF, **George SR**. Dopamine D<sub>1</sub>-D<sub>2</sub> receptor heteromer regulates signaling cascades involved in addiction: potential relevance to adolescent drug susceptibility. *Dev Neurosci.*; 36(3-4):287-96, 2014.

Cheung EN, **George SR**, Andrade DM, Chow EW, Silversides CK, Bassett AS. Neonatal hypocalcemia, neonatal seizures, and intellectual disability in 22q11.2 deletion syndrome. *Genet Med.*; 16(1):40-4, 2014.

Perreault ML, Hasbi A, O'Dowd BF, **George SR**. Heteromeric dopamine receptor signaling complexes: emerging neurobiology and disease relevance. *Neuropsychopharmacology.*; 39(1):156-68, 2014.

**George SR**, Kern A, Smith RG, Franco R. Dopamine receptor heteromeric complexes and their emerging functions. *Prog Brain Res.*; 211:183-200, 2014.

### **Goldstein BI**

Seleem MA, Merranko JA, Goldstein TR, **Goldstein BI**, Axelson DA, Brent DA, Nimgaonkar VL, Diler RS, Sakolsky DJ, Kupfer DJ, Birmaher B. The longitudinal course of sleep timing and circadian preferences in adults with bipolar disorder. *Bipolar Disord.*; 17(4):392-402, 2014.

Fonseka TM, Swampillai B, Timmins V, Scavone A, Mitchell R, Collinger KA, **Goldstein BI**. Significance of borderline personality-spectrum symptoms among adolescents with bipolar disorder. *J Affect Disord.*; 170:39-45, 2014.

Hatch J, Collinger K, Moody A, Olowoyeye O, Zhan JQ, **Goldstein BI**. Non-invasive vascular imaging is associated with cardiovascular risk factors among adolescents with bipolar disorder. *Pediatr Cardiol.*; 36(1):158-64, 2014.

Schaffer A, Sinyor M, Reis C, **Goldstein BI**, Levitt AJ. Suicide in bipolar disorder: characteristics and subgroups. *Bipolar Disord.*; 16(7):732-40, 2014.

Shapiro J, Timmins V, Swampillai B, Scavone A, Collinger K, Boulos C, Hatch J, **Goldstein BI**. Correlates of psychiatric hospitalization in a clinical sample of Canadian adolescents with bipolar disorder. *Compr Psychiatry.*; 55(8):1855-61, 2014.

Maahs DM, Daniels SR, de Ferranti SD, Dichek HL, Flynn J, **Goldstein BI**, Kelly AS, Nadeau KJ, Martyn-Nemeth P, Osganian SK, Quinn L, Shah AS, Urbina E; American Heart Association Atherosclerosis, Hypertension and Obesity in Youth Committee of the Council on Cardiovascular Disease in the Young, Council on Clinical Cardiology, Council on Cardiovascular and Stroke Nursing, Council for High Blood Pressure Research, and Council on Lifestyle and Cardiometabolic Health. Cardiovascular disease risk factors in youth with diabetes mellitus: a scientific statement from the American Heart Association. *Circulation.*; 130(17):1532-58, 2014.

Maoz H, Goldstein T, **Goldstein BI**, Axelson DA, Fan J, Hickey MB, Monk K, Sakolsky D, Diler RS, Brent D, Kupfer DJ, Birmaher B. The effects of parental mood on reports of their children's psychopathology. *J Am Acad Child Adolesc Psychiatry.*; 53(10):1111-22.e5, 2014.

Birmaher B, Gill MK, Axelson DA, **Goldstein BI**, Goldstein TR, Yu H, Liao F, Iyengar S, Diler RS, Strober M, Hower H, Yen S, Hunt J, Merranko JA, Ryan ND, Keller MB. Longitudinal trajectories and associated baseline predictors in youths with bipolar spectrum disorders. *Am J Psychiatry.*; 171(9):990-9, 2014.

Ko A, Swampillai B, Timmins V, Scavone A, Collinger K, **Goldstein BI**. Clinical characteristics associated with lithium use among adolescents with bipolar disorder. *J Child Adolesc Psychopharmacol.*; 24(7):382-9, 2014.

Sala R, **Goldstein BI**, Wang S, Blanco C. Childhood maltreatment and the course of bipolar disorders among adults: epidemiologic evidence of dose-response effects. *J Affect Disord.*; 165:74-80, 2014.

**Goldstein BI**, Goldstein TR, Collinger KA, Axelson DA, Bukstein OG, Birmaher B, Miklowitz DJ. Treatment development and feasibility study of family-focused treatment for adolescents with bipolar disorder and comorbid substance use disorders. *J Psychiatr Pract.*; 20(3):237-48, 2014.

Mitchell RH, **Goldstein BI**. Inflammation in children and adolescents with neuropsychiatric disorders: a systematic review. *J Am Acad Child Adolesc Psychiatry.*; 53(3):274-96, 2014.

Sala R, Strober MA, Axelson DA, Gill MK, Castro-Fornieles J, Goldstein TR, **Goldstein BI**, Ha W, Liao F, Iyengar S, Yen S, Hower H, Hunt J, Dickstein DP, Ryan ND, Keller MB, Birmaher B. Effects of comorbid anxiety disorders on the longitudinal course of pediatric bipolar disorders. *J Am Acad Child Adolesc Psychiatry.*; 53(1):72-81, 2014.

Maoz H, Goldstein T, Axelson DA, **Goldstein BI**, Fan J, Hickey MB, Monk K, Sakolsky D, Diler RS, Brent D, Iyengar S, Kupfer DJ, Birmaher B. Dimensional psychopathology in preschool offspring of parents with bipolar disorder. *J Child Psychol Psychiatry.*; 55(2):144-53, 2014.

Sparks GM, Axelson DA, Yu H, Ha W, Ballester J, Diler RS, **Goldstein BI**, Goldstein T, Hickey MB, Ladouceur CD, Monk K, Sakolsky D, Birmaher B. Disruptive mood dysregulation disorder and chronic irritability in youth at familial risk for bipolar disorder. *J Am Acad Child Adolesc Psychiatry.*; 53(4):408-16, 2014.

Ballester J, **Goldstein BI**, Goldstein TR, Yu H, Axelson D, Monk K, Hickey MB, Diler RS, Sakolsky DJ, Sparks G, Iyengar S, Kupfer DJ, Brent DA, Birmaher B. Prospective longitudinal course of aggression among adults with bipolar disorder. *Bipolar Disord.*; 16(3):262-9, 2014.

### **Grant DM**

Metushi IG, Cai P, Vega L, **Grant DM**, Uetrecht J. Paradoxical attenuation of autoimmune hepatitis by oral isoniazid in wild-type and N-acetyltransferase-deficient mice. *Drug Metab Dispos.*; 42(6):963-73, 2014.

### **Hampson D**

Ellegood J, Anagnostou E, Babineau BA, Crawley JN, Lin L, Genestine M, DiCicco-Bloom E, Lai JK, Foster JA, Peñagarikano O, Geschwind DH, Pacey LK, **Hampson DR**, Laliberté CL, Mills AA, Tam E, Osborne LR, Kouser M, Espinosa-Becerra F, Xuan Z, Powell CM, Raznahan A, Robins DM, Nakai N, Nakatani J, Takumi T, van Eede MC, Kerr TM, Muller C, Blakely RD, Veenstra-VanderWeele J, Henkelman RM, Lerch JP. Clustering autism: using neuroanatomical differences in 26 mouse models to gain insight into the heterogeneity. *Mol Psychiatry.*; 20(1):118-25, 2014.

Gholizadeh S, Halder SK, **Hampson DR**. Expression of fragile X mental retardation protein in neurons and glia of the developing and adult mouse brain. *Brain Res.*; 1596:22-30, 2014.

La T, Phillips ND, Thomson JR, **Hampson DJ**. Absence of a set of plasmid-encoded genes is predictive of reduced pathogenic potential in *Brachyspira hyodysenteriae*. *Vet Res.*; 45:131, 2014.

Gholizadeh S, Arsenaault J, Xuan IC, Pacey LK, **Hampson DR**. Reduced phenotypic severity following adeno-associated virus-mediated Fmr1 gene delivery in fragile X mice. *Neuropsychopharmacology.*; 39(13):3100-11, 2014.

Amin MM, Phillips ND, La T, Robertson ID, **Hampson DJ**. Intestinal spirochaetes (*Brachyspira* spp.) colonizing flocks of layer and breeder chickens in Malaysia. *Avian Pathol.*; 43(6):501-5, 2014.

Xuan IC, **Hampson DR**. Gender-dependent effects of maternal immune activation on the behavior of mouse offspring. *PLoS One.*; 9(8):e104433, 2014.

### **Higgins G**

Guy EG, Fisher DC, **Higgins GA**, Fletcher PJ. Examination of the effects of Varenicline, Bupropion, Lorcaserin, or Naltrexone on Responding for Conditioned Reinforcement in Nicotine-Exposed Rats. *Behavioural Pharmacol.*; 25: 775-783, 2014.

### **Ito S**

Yazdani-Brojeni P, Garcia-Bournissen F, Fujii H, Tanoshima R, **Ito S**. Relative bioequivalence of amoxicillin dissolved in breast milk. *Arch Dis Child.*; 99(3):258-61, 2014.

Amstutz U, Shear NH, Rieder MJ, Hwang S, Fung V, Nakamura H, Connolly M, **Ito S**, Carleton BC, and CPNDS clinical recommendation group. Recommendations for HLA-B15:02 and HLA-A31:01 genotyping and carbamazepine-induced hypersensitivity reactions. *Epilepsia.*; 55(4):496-506, 2014.

Tanoshima R, Garcia-Bournissen F, Tanigawara Y, Kristensen JH, Taddio A, Ilett KF, Begg BJ, Wallach I, **Ito S**. Population PK modeling and simulation based on fluoxetine and norfluoxetine concentrations in milk: A milk concentration-based prediction model. *Br J Clin Pharmacol.*; 78:918-928, 2014.

Newman G, Colantonio D, Delaney S, Szykaruk M, **Ito S**. Bupropion and escitalopram during lactation. *Annals of Pharmacotherapy.*; 48:928-931, 2014.

Wu A, Yang M, Dalvi P, Turinsky AL, Wang W, Butcher D, Egan SE, Weksberg R, Harper PA, **Ito S**. Regulation and expression of multidrug transporter *Abcg2* in the lactating mouse mammary gland. *Am J Physiol Endocrinol Metab.*; 307:E596-E610, 2014.

Burnett HF, Tanoshima R, Chandranipapongse W, Madadi P, **Ito S**, Ungar WJ. Testing for thiopurine methyltransferase status for safe and effective administration of thiopurines: A systematic review of clinical guidance documents. *The Pharmacogenomics Journal.*; 14:493-502. 2014.

Newman G, Boodhan S, Wurman I, Koren G, Bitnun A, Kirby-Allen M, **Ito S**. Ceftriaxone-induced immune hemolytic anemia. *Ann Pharmacother.*; 48:1594-1604, 2014.

Ito S. Biotransformation. *Clin Pharmacol Ther.*; 96:281-283, 2014.

### **Koren G (95)**

LeMasters GK, Khurana Hershey GK, Sivaprasad U, Martin LJ, Pilipenko V, Ericksen MB, Burkle JW, Lindsey MA, Bernstein DI, Lockey JE, Gareri J, Lubetsky A, **Koren G**, Biagini

Myers JM. N-acetyltransferase 1 polymorphism increases cotinine levels in Caucasian children exposed to secondhand smoke: the CCAAPS birth cohort. *Pharmacogenomics J.*; 15(2):189-95, 2014.

Daniel S, **Koren G**, Lunenfeld E, Levy A. Immortal time bias in drug safety cohort studies: spontaneous abortion following nonsteroidal antiinflammatory drug exposure. *Am J Obstet Gynecol.*; 212(3):307.e1-6, 2014.

Shere M, Nguyen P, Tam C, Stern S, Kapur B, O'Connor DL, Koren G. Pregnancy-induced changes in the long-term pharmacokinetics of 1.1 mg vs. 5 mg folic acid: a randomized clinical trial. *J Clin Pharmacol.*; 55(2):159-67, 2014.

Ebrahimi N, Herbstritt S, Gold R, Amezcua L, **Koren G**, Hellwig K. Pregnancy and fetal outcomes following natalizumab exposure in pregnancy. A prospective, controlled observational study. *Mult Scler.*; 21(2):198-205, 2014.

Brandlistuen RE, Ystrom E, Nulman I, **Koren G**, Nordeng H. Annotations and reflections: response to "Pregnancy and paracetamol: methodological considerations on the study of associations between in utero exposure to drugs and childhood neurodevelopment". *Basic Clin Pharmacol Toxicol.*; 116(1):6-8, 2014.

Nash K, Stevens S, Greenbaum R, Weiner J, **Koren G**, Rovet J. Improving executive functioning in children with fetal alcohol spectrum disorders. *Child Neuropsychol.*; 21(2):191-209. 2014.

Kim TY, Kunitomo Y, Pfeiffer Z, Patel D, Hwang J, Harrison K, Patel B, Jeng P, Ziv O, Lu Y, Peng X, Qu Z, **Koren G**, Choi BR. Complex excitation dynamics underlie polymorphic ventricular tachycardia in a transgenic rabbit model of long QT syndrome type 1. *Heart Rhythm.*; 12(1):220-8, 2014.

Chau K, Lau E, Greenberg S, Jacobson S, Yazdani-Brojeni P, Verma N, **Koren G**. Probiotics for infantile colic: a randomized, double-blind, placebo-controlled trial investigating *Lactobacillus reuteri* DSM 17938. *J Pediatr.*; 166(1):74-8, 2014.

Boesch M, Sefidan S, Annen H, Ehlert U, Roos L, Van Uum S, Russell E, **Koren G**, La Marca R. Hair cortisol concentration is unaffected by basic military training, but related to oциodemographic and environmental factors. *Stress.*; 18(1):35-41, 2014.

Poon S, Wade MG, Aleksa K, Rawn DF, Carnevale A, Gaertner DW, Sadler A, Breton F, **Koren G**, Ernest SR, Lalancette C, Robaire B, Hales BF, Goodyer CG. Hair as a biomarker of systemic exposure to polybrominated diphenyl ethers. *Environ Sci Technol.*; 48(24):14650-8, 2014.

Roder K, Werdich AA, Li W, Liu M, Kim TY, Organ-Darling LE, Moshal KS, Hwang JM, Lu Y, Choi BR, MacRae CA, **Koren G**. RING finger protein RNF207, a novel regulator of cardiac excitation. *J Biol Chem.*; 289(49):33730-40, 2014.

**Koren G**. Treating morning sickness in the United States--changes in prescribing are needed. *Am J Obstet Gynecol.*; 211(6):602-6, 2014.

Moshal KS, Zhang Z, Roder K, Kim TY, Cooper L, Patedakis Litvinov B, Lu Y, Reddy V, Terentyev D, Choi BR, **Koren G**. Progesterone modulates SERCA2a expression and function in rabbit cardiomyocytes. *Am J Physiol Cell Physiol.*; 307(11):C1050-7, 2014.

Neuman G, Boodhan S, Wurman I, Koren G, Bitnun A, Kirby-Allen M, Ito S. Ceftriaxone-induced immune hemolytic anemia. *Ann Pharmacother.*; 48(12):1594-604, 2014.

Alsaad AM, **Koren G**. Exposure to rufinamide and risks of CNS adverse events in drug-resistant epilepsy: a meta-analysis of randomized, placebo-controlled trials. *Br J Clin Pharmacol.*; 78(6):1264-71, 2014.

Ejaz R, Leibson T, **Koren G**. Selective serotonin reuptake inhibitor discontinuation during pregnancy: at what risk? *Can Fam Physician.*; 60(12):1105-6, 2014.

Etwel F, Russell E, Rieder MJ, Van Uum SH, **Koren G**. Hair cortisol as a biomarker of stress in the 2011 Libyan war. *Clin Invest Med.*; 37(6):E403-8, 2014.

Matok I, Clark S, Caritis S, Miodovnik M, Umans JG, Hankins G, Mattison DR, Koren G. Studying the antiemetic effect of vitamin B6 for morning sickness: pyridoxine and pyridoxal are prodrugs. *J Clin Pharmacol.*; 54(12):1429-33, 2014.

Bove R, Alwan S, Friedman JM, Hellwig K, Houtchens M, Koren G, Lu E, McElrath TF, Smyth P, Tremlett H, Sadovnick AD. Management of multiple sclerosis during pregnancy and the reproductive years: a systematic review. *Obstet Gynecol.*; 124(6):1157-68, 2014.

### **Lanctôt KL (31)**

Santiago C, Herrmann N, Swardfager W, Saleem M, Oh PI, Black SE, **Lanctôt KL**. White Matter Microstructural Integrity Is Associated with Executive Function and Processing Speed in Older Adults with Coronary Artery Disease. *Am J Geriatr Psychiatry.*; 23(7):754-63, 2014.

MacIntosh BJ, Swardfager W, Robertson AD, Tchistiakova E, Saleem M, Oh PI, Herrmann N, Stefanovic B, **Lanctôt KL**. Regional cerebral arterial transit time hemodynamics correlate with vascular risk factors and cognitive function in men with coronary artery disease. *AJNR Am J Neuroradiol.*; 36(2):295-301, 2014.

Swardfager W, Herrmann N, Mazereeuw G, **Lanctôt KL**. Reply to: Serum zinc and the risk of depression in men: observations from a 20-year follow-up study. *Biol Psychiatry.*; 77(3):e13-4, 2014.

Cummings J, Mintzer J, Brodaty H, Sano M, Banerjee S, Devanand DP, Gauthier S, Howard R, **Lanctôt KL**, Lyketsos CG, Peskind E, Porsteinsson AP, Reich E, Sampaio C, Steffens D, Wortmann M, Zhong K. Agitation in cognitive disorders: International Psychogeriatric Association provisional consensus clinical and research definition. *Int Psychogeriatr.*; 27(1):7-17, 2014.



Mazereeuw G, Herrmann N, Xu H, Figeys D, Oh PI, Bennett SA, **Lanctôt KL**. Platelet-activating factors are associated with cognitive deficits in depressed coronary artery disease patients: a hypothesis-generating study. *J Neuroinflammation.*; 11:119, 2014.

Yi H, **Lanctôt KL**, Bont L, Bloemers BL, Weijerman M, Broers C, Li A, Kiss A, Mitchell I, Paes B; CARESS investigators. Respiratory syncytial virus prophylaxis in Down syndrome: a prospective cohort study. *Pediatrics.*; 133(6):1031-7, 2014.

Moss J, Li A, Tobin J, Weinstein IS, Harimoto T, **Lanctôt KL**. Predictors of readmission to a psychiatry inpatient unit. *Compr Psychiatry.*; 55(3):426-30, 2014.

**Lanctôt KL**, Chau SA, Herrmann N, Drye LT, Rosenberg PB, Scherer RW, Black SE, Vaidya V, Bachman DL, Mintzer JE. Effect of methylphenidate on attention in apathetic AD patients in a randomized, placebo-controlled trial. *Int Psychogeriatr.*; 26(2):239-46, 2014.

Paes B, Mitchell I, Yi H, Li A, **Lanctôt KL**; CARESS Investigators. Hospitalization for respiratory syncytial virus illness in Down syndrome following prophylaxis with palivizumab. *Pediatr Infect Dis J.*; 33(2):e29-33, 2014.

Behl P, Edwards JD, Kiss A, **Lanctôt KL**, Streiner DL, Black SE, Stuss DT. Treatment effects in multiple cognitive domains in Alzheimer's disease: a two-year cohort study. *Alzheimers Res Ther.*; 6(4):48, 2014.

Swardfager W, Herrmann N, Andrezza AC, Swartz RH, Khan MM, Black SE, **Lanctôt KL**. Poststroke neuropsychiatric symptoms: relationships with IL-17 and oxidative stress. *Biomed Res Int.*; 2014:245210, 2014.

Bensimon K, Herrmann N, Swardfager W, Yi H, Black SE, Gao FQ, Snaiderman A, **Lanctôt KL**. Kynurenine and depressive symptoms in a poststroke population. *Neuropsychiatr Dis Treat.*; 10:1827-35, 2014.

MacIntosh BJ, Swardfager W, Crane DE, Ranepura N, Saleem M, Oh PI, Stefanovic B, Herrmann N, **Lanctôt KL**. Cardiopulmonary fitness correlates with regional cerebral grey matter perfusion and density in men with coronary artery disease. *PLoS One.*; 9(3):e91251, 2014.

**Lanctôt KL**, O'Regan J, Schwartz Y, Swardfager W, Saleem M, Oh PI, Herrmann N. Assessing cognitive effects of anticholinergic medications in patients with coronary artery disease. *Psychosomatics.*; 55(1):61-8, 2014.

### **Lê AD**

Garcia KL, **Lê AD**, Tyndale RF. Effect of food training and training dose on nicotine self-administration in rats. *Behav Brain Res.*; 274:10-8, 2014.

**Lê AD**, Funk D, Lo S, Coen K. Operant self-administration of alcohol and nicotine in a preclinical model of co-abuse. *Psychopharmacology (Berl.)*; 231(20):4019-29, 2014.

Uslaner JM, Winrow CJ, Gotter AL, Roecker AJ, Coleman PJ, Hutson PH, **Le AD**, Renger JJ. Selective orexin 2 receptor antagonism blocks cue-induced reinstatement, but not nicotine self-administration or nicotine-induced reinstatement. *Behav Brain Res.*; 269:61-5, 2014.

Grella SL, Funk D, Coen K, Li Z, **Lê AD**. Role of the kappa-opioid receptor system in stress-induced reinstatement of nicotine seeking in rats. *Behav Brain Res.*; 265:188-97, 2014.

Funk D, Coen K, **Lê AD**. The role of kappa opioid receptors in stress-induced reinstatement of alcohol seeking in rats. *Brain Behav.*; 4(3):356-67, 2014.

Zou S, Funk D, Shram MJ, **Lê AD**. Effects of stressors on the reinforcing efficacy of nicotine in adolescent and adult rats. *Psychopharmacology (Berl.)*; 231(8):1601-14, 2014.

### **Le Foll B**

**Le Foll B**, Di Ciano P. Neuronal circuitry underlying the impact of D3 receptor ligands in drug addiction. *Eur Neuropsychopharmacol.*; 25(9):1401-9, 2014.

Le Strat Y, **Le Foll B**, Dubertret C. Major depression and suicide attempts in patients with liver disease in the United States. *Liver Int.*; 35(7):1910-6, 2014.

Zai CC, Manchia M, Sønderby IE, Yilmaz Z, De Luca V, Tiwari AK, Squassina A, Zai GC, Shaikh SA, Strauss J, King N, **Le Foll B**, Kaplan AS, Finseth PI, Vaaler AE, Djurovic S, Andreassen OA, Vincent JB, Kennedy JL. Investigation of the genetic interaction between BDNF and DRD3 genes in suicidal behaviour in psychiatric disorders. *World J Biol Psychiatry.* ; 16(3):171-9, 2014.

Le Strat Y, Dubertret C, **Le Foll B**. Impact of age at onset of cannabis use on cannabis dependence and driving under the influence in the United States. *Accid Anal Prev.*; 76:1-5, 2014.

Khaled MA, Pushparaj A, Di Ciano P, Diaz J, **Le Foll B**. Dopamine D3 receptors in the basolateral amygdala and the lateral habenula modulate cue-induced reinstatement of nicotine seeking. *Neuropsychopharmacology.*; 39(13):3049-58, 2014.

Hettige NC, Zai C, Hazra M, Borlido C, Kennedy JL, Strauss J, **Le Foll B**, Wong A, Remington G, De Luca V. Use of candidate gene markers to guide antipsychotic dosage adjustment. *Prog Neuropsychopharmacol Biol Psychiatry.*; 54:315-20, 2014.

**Le Foll B**, Loheswaran G. Alcohol inhalation. *CMAJ.* ; 186(10):E399, 2014.

**Le Foll B**, Pushparaj A, Pryslawsky Y, Forget B, Vemuri K, Makriyannis A, Trigo JM. Translational strategies for therapeutic development in nicotine addiction: rethinking the conventional bench to bedside approach. *Prog Neuropsychopharmacol Biol Psychiatry.*; 52:86-93, 2014.

Leggio GM, Camillieri G, Platania CB, Castorina A, Marrazzo G, Torrisi SA, Nona CN, D'Agata V, Nobrega J, Stark H, Bucolo C, **Le Foll B**, Drago F, Salomone S. Dopamine D3 receptor is necessary for ethanol consumption: an approach with buspirone. *Neuropsychopharmacology*.; 39(8):2017-28, 2014.

Cocker PJ, **Le Foll B**, Rogers RD, Winstanley CA. A selective role for dopamine D<sub>4</sub> receptors in modulating reward expectancy in a rodent slot machine task. *Biol Psychiatry*.; 75(10):817-24, 2014.

Lev-Ran S, Roerecke M, **Le Foll B**, George TP, McKenzie K, Rehm J. The association between cannabis use and depression: a systematic review and meta-analysis of longitudinal studies. *Psychol Med*.; 44(4):797-810, 2014.

Sayer G, Ialomiteanu A, Stoduto G, Wickens CM, Mann RE, **Le Foll B**, Brands B. Increased collision risk among drivers who report driving after using alcohol and after using cannabis. *Can J Public Health*.; 105(1):e92-3, 2014.

Di Ciano P, Grandy DK, Le Foll B. Dopamine D4 receptors in psychostimulant addiction. *Adv Pharmacol*.; 69:301-21, 2014.

**Le Foll B**, Wilson AA, Graff A, Boileau I, Di Ciano P. Recent methods for measuring dopamine D3 receptor occupancy in vivo: importance for drug development. *Front Pharmacol*.; 5:161, 2014.

**Le Foll B**, Guranda M, Wilson AA, Houle S, Rusjan PM, Wing VC, Zawertailo L, Busto U, Selby P, Brody AL, George TP, Boileau I. Elevation of dopamine induced by cigarette smoking: novel insights from a [11C]-*+*-PHNO PET study in humans. *Neuropsychopharmacology*.; 39(2):415-24, 2014.

**Le Foll B**, Collo G, Rabiner EA, Boileau I, Merlo Pich E, Sokoloff P. Dopamine D3 receptor ligands for drug addiction treatment: update on recent findings. *Prog Brain Res*.; 211:255-75, 2014.

### **Matthews J**

Hecht E, Zago M, Rico de Souza A, Gomez A, **Matthews J**, Hamid Q, Eidelma, DH, and Baglolle CJ. Aryl hydrocarbon receptor-dependent regulation of miR-196a expression controls lung fibroblast apoptosis but not proliferation. *Toxicol Appl Pharmacol*. Nov 280(3):511-25, 2014

MacPherson L, Ahmed S, Tamblyn L, Krutmann J, Förster I, Weighardt H, and **Matthews J**. Aryl hydrocarbon receptor repressor and TiPARP (ARTD14) use similar, but also distinct mechanisms to repress aryl hydrocarbon receptor signaling. *Int J Mol Sci*. 15(5):7939-57, 2014.

Ahmed S, Wang A, Celiu, T, and **Matthews J**. Zinc finger nuclease-mediated knockout of *AHR* or *ARNT* in human breast cancer cells abolishes basal and ligand-dependent regulation of

*CYP1B1* and differentially affects oestrogen receptor a transactivation Toxicol Sci.; 138(1):89-103, 2014.

### **McPherson JP**

Larin M, Gallo D, Tamblyn L, Yang J, Liao H, Sabat N, Brown GW, **McPherson JP**. Fanconi anemia signaling and Mus81 cooperate to safeguard development and crosslink repair. Nucleic Acids Res.; 42(15):9807-20, 2014.

Orieux G, Picault L, Slembrouck A, Roger JE, Guillonneau X, Sahel JA, Saule S, **McPherson JP**, Goureau O. Involvement of Bcl-2-associated transcription factor 1 in the differentiation of early-born retinal cells. J Neurosci.; 34(4):1530-41, 2014.

### **McIntyre RS (41)**

Reininghaus EZ, Lackner N, Fellendorf FT, Bengesser S, Birner A, Reininghaus B, Unterweger R, Platzer M, Wallner-Liebmann SJ, Zelzer S, Mangge H, Fuchs D, Kapfhammer HP, **McIntyre RS**. Weight cycling in bipolar disorder. J Affect Disord.; 171:33-8, 2014.

McIntyre RS, Soczynska JZ, Woldeyohannes HO, Alsuwaidan MT, Cha DS, Carvalho AF, Jerrell JM, Dale RM, Gallagher LA, Muzina DJ, Kennedy SH. The impact of cognitive impairment on perceived workforce performance: results from the International Mood Disorders Collaborative Project. Compr Psychiatry.; 56:279-82, 2014.

Soczynska JK, Ravindran LN, Styra R, **McIntyre RS**, Cyriac A, Manierka MS, Kennedy SH. The effect of bupropion XL and escitalopram on memory and functional outcomes in adults with major depressive disorder: results from a randomized controlled trial. Psychiatry Res.; 220(1-2):245-50, 2014.

Carvalho AF, Rocha DQ, **McIntyre RS**, Mesquita LM, Köhler CA, Hyphantis TN, Sales PM, Machado-Vieira R, Berk M. Adipokines as emerging depression biomarkers: a systematic review and meta-analysis. J Psychiatr Res.; 59:28-37, 2014.

Mansur RB, Cha DS, Woldeyohannes HO, Soczynska JK, Zugman A, Brietzke E, **McIntyre RS**. Diabetes mellitus and disturbances in brain connectivity: a bidirectional relationship? Neuromolecular Med.; 16(4):658-68, 2014. Psychother Psychosom.; 83(2):70-88, 2014.

Park S, Joo YH, **McIntyre RS**, Kim B. Metabolic syndrome and elevated C-reactive protein levels in elderly patients with newly diagnosed depression. Psychosomatics.; 55(6):640-9, 2014.

Carvalho AF, Quevedo J, **McIntyre RS**, Soeiro-de-Souza MG, Fountoulakis KN, Berk M, Hyphantis TN, Vieta E. Treatment implications of predominant polarity and the polarity index: a comprehensive review. Int J Neuropsychopharmacol.; 18(2). pii: pyu079, 2014.

Carvalho AF, Takwoingi Y, Sales PM, Soczynska JK, Köhler CA, Freitas TH, Quevedo J, Hyphantis TN, **McIntyre RS**, Vieta E. Screening for bipolar spectrum disorders: A comprehensive meta-analysis of accuracy studies. *J Affect Disord.*; 172C:337-346, 2014.

Bengesser SA, Lackner N, Birner A, Fellendorf FT, Platzer M, Mitteregger A, Unterweger R, Reininghaus B, Mangge H, Wallner-Liebmann SJ, Zelzer S, Fuchs D, **McIntyre RS**, Kapfhammer HP, Reininghaus EZ. Peripheral markers of oxidative stress and antioxidative defense in euthymia of bipolar disorder-Gender and obesity effects. *J Affect Disord.*; 172C:367-374, 2014.

**McIntyre RS**, Soczynska JK, Cha DS, Woldeyohannes HO, Dale RS, Alsuwaidan MT, Gallagher LA, Mansur RB, Muzina DJ, Carvalho A, Kennedy SH. The prevalence and illness characteristics of DSM-5-defined "mixed feature specifier" in adults with major depressive disorder and bipolar disorder: Results from the International Mood Disorders Collaborative Project. *J Affect Disord.*; 172C:259-264, 2014.

**McIntyre RS**, Lophaven S, Olsen CK. A randomized, double-blind, placebo-controlled study of vortioxetine on cognitive function in depressed adults. *Int J Neuropsychopharmacol.*; 17(10):1557-67, 2014.

Tohen M, **McIntyre RS**, Kanba S, Fujikoshi S, Katagiri H. Efficacy of olanzapine in the treatment of bipolar mania with mixed features defined by DSM-5. *J Affect Disord.*; 168:136-41, 2014.

**McIntyre RS**. Major depressive disorder and cognitive impairment. *J Psychiatry Neurosci.*; 39(5):E36-7. PubMed PMID: 25162148; PubMed Central PMCID: PMC4160365, 2014.

Rosenblat JD, Cha DS, Mansur RB, **McIntyre RS**. Inflamed moods: a review of the interactions between inflammation and mood disorders. *Prog Neuropsychopharmacol Biol Psychiatry.*; 53:23-34, 2014.

**McIntyre RS**, Correll C. Predicting and preventing bipolar disorder: the need to fundamentally advance the strategic approach. *Bipolar Disord.*; 16(5):451-4, 2014.

**McIntyre RS**, Cha DS, Jerrell JM, Swardfager W, Kim RD, Costa LG, Baskaran A, Soczynska JK, Woldeyohannes HO, Mansur RB, Brietzke E, Powell AM, Gallagher A, Kudlow P, Kaidanovich-Beilin O, Alsuwaidan M. Advancing biomarker research: utilizing 'Big Data' approaches for the characterization and prevention of bipolar disorder. *Bipolar Disord.*; 16(5):531-47. 2014.

Tohen M, Kanba S, **McIntyre RS**, Fujikoshi S, Katagiri H. Efficacy of olanzapine monotherapy in the treatment of bipolar depression with mixed features. *J Affect Disord.*; 164:57-62, 2014.

Rizvi SJ, Grima E, Tan M, Rotzinger S, Lin P, **McIntyre RS**, Kennedy SH. Treatment-resistant depression in primary care across Canada. *Can J Psychiatry.*; 59(7):349-57, 2014.

Sales PM, Carvalho AF, **McIntyre RS**, Pavlidis N, Hyphantis TN. Psychosocial predictors of health outcomes in colorectal cancer: a comprehensive review. *Cancer Treat Rev.*; 40(6):800-9, 2014.

### Milgram NW

Snigdha S, de Rivera C, **Milgram NW**, Cotman CW. Exercise enhances memory consolidation in the aging brain. *Front Aging Neurosci.*; 6:3, 2014.

Lazarowski L, Foster ML, Gruen ME, Sherman BL, Case BC, Fish RE, **Milgram NW**, Dorman DC. Acquisition of a visual discrimination and reversal learning task by Labrador Retrievers. *Anim Cogn.*; 17:787-792, 2014.

### Mitchell J

dela Cruz A, Mattocks M, Sugamori KS, Grynopas MD, **Mitchell J**. Reduced trabecular bone mass and strength in mice overexpressing G $\beta$ 11 protein in cells of the osteoblast lineage. *Bone* 59: 211-222, 2014.

### Mittmann N

Kuthubutheen J, **Mittmann N**, Amoodi H, Qian W, Chen JM. The effect of different utility measures on the cost-effectiveness of bilateral cochlear implantation. *Laryngoscope.*; 125(2):442-7, 2014.

Fowler RA, **Mittmann N**, Geerts WH, Heels-Ansdell D, Gould MK, Guyatt G, Krahn M, Finfer S, Pinto R, Chan B, Ormanidhi O, Arabi Y, Qushmaq I, Rocha MG, Dodek P, McIntyre L, Hall R, Ferguson ND, Mehta S, Marshall JC, Doig CJ, Muscedere J, Jacka MJ, Klinger JR, Vlahakis N, Orford N, Seppelt I, Skrobik YK, Sud S, Cade JF, Cooper J, Cook D; Canadian Critical Care Trials Group; Australia and New Zealand Intensive Care Society Clinical Trials Group. Economic evaluation of the prophylaxis for thromboembolism in critical care trial (E-PROTECT): study protocol for a randomized controlled trial. *Trials.*; 15:502, 2015.

**Mittmann N**, Porter JM, Rangrej J, Seung SJ, Liu N, Saskin R, Cheung MC, Leighl NB, Hoch JS, Trudeau M, Evans WK, Dainty KN, DeAngelis C, Earle CC. Health system costs for stage-specific breast cancer: a population-based approach. *Curr Oncol.*; 21(6):281-93, 2014.

Burchell AN, Grewal R, Allen VG, Gardner SL, Moravan V, Bayoumi AM, Kaul R, McGee F, Millson MP, Remis RS, Raboud J, Mazzulli T, Rourke SB; OHTN Cohort Study Team. Modest rise in chlamydia and gonorrhoea testing did not increase case detection in a clinical HIV cohort in Ontario, Canada. *Sex Transm Infect.*; 90(8):608-14, 2014.

**Mittmann N**, Seung SJ, Liu N, Porter J, Saskin R, Hoch JS, Evans WK, Leighl NB, Trudeau M, Earle CC. Population-based utilization of radiation therapy by a Canadian breast cancer cohort. *Curr Oncol.*; 21(5):e715-7, 2014.

Giangregorio LM, Thabane L, Adachi JD, Ashe MC, Bleakney RR, Braun EA, Cheung AM, Fraser LA, Gibbs JC, Hill KD, Hodsman AB, Kendler DL, **Mittmann N**, Prasad S, Scherer SC, Wark JD, Papaioannou A. Build better bones with exercise: protocol for a feasibility study of a multicenter randomized controlled trial of 12 months of home exercise in women with a vertebral fracture. *Phys Ther.*;94(9):1337-52, 2014.

Chen JM, Amoodi H, **Mittmann N**. Cost-utility analysis of bilateral cochlear implantation in adults: a health economic assessment from the perspective of a publicly funded program. *Laryngoscope.*; 124(6):1452-8, 2014.

Fine S, Koo M, Gill T, Marin M, Poulin-Costello M, Barron R, **Mittmann N**. The use of granulocyte colony-stimulating factors in a Canadian outpatient setting. *Curr Oncol.*; 21(2):e229-40, 2014.

**Mittmann N**, Liu N, Porter J, Seung SJ; Hon, Isogai PK, Saskin R, Cheung MC, Leighl NB, Hoch JS, Trudeau M, Evans WK, Dainty KN, Earle CC. Utilization and costs of home care for patients with colorectal cancer: a population-based study. *CMAJ Open.*; 2(1):E11-7, 2014.

**Mittmann N**, Seung SJ, Liu N, Porter J, Leighl N, Trudeau M, Evans W, Earle C. Homecare Utilization and Costs in Stage IV Lung Cancer: A Canadian Public Payer Experience. *Lung Cancer Management*; 3(6): 439-442, 2014.

Fowler RA, **Mittmann N**, Geerts W, Heels-Ansdell D, Gould MK, Guyatt G, Krahn M et al. Cost-effectiveness of Dalteparin vs Unfractionated Heparin for the Prevention of Venous Thromboembolism in Critically Ill Patients. *JAMA* 2014; 312(20): 2135-45, 2014.

**Mittmann N**, Hitzig S, Craven BC. Predicting health preference in chronic spinal cord injury. *Journal of Spinal Cord Medicine.*; 37(5): 548-55, 2014.

Whitehurst DGT, Suryaprakash N, Engel L, **Mittmann N**, Noonan VK, Dvorak MFS, Bryan S. Perceptions of Individuals Living with Spinal Cord Injury toward Preference-Based Quality of Life Instruments: A Qualitative Exploration. *Health and Quality of Life Outcomes.*; 12: 50, 2014.

**Mittmann N**, Liu N, Porter JM, Isogai PK, Saskin R, Cheung MC, Leighl NB, Hoch JS, Trudeau ME, Evans WK, Dainty KN, Earle CC. End of life homecare utilization and costs in advanced colorectal cancer patients. *Journal of Community & Supportive Oncology*; 12(3): 92-98, 2014.

### **Neuman MG**

**Neuman MG**, Cohen LB, Nanau RM. Biomarkers in nonalcoholic fatty liver disease. *Can J Gastroenterol Hepatol.*; 28(11):607-18, 2014.

**Neuman MG**, French SW, French BA, Seitz HK, Cohen LB, Mueller S, Osna NA, Kharbanda KK, Seth D, Bautista A, Thompson KJ, McKillop IH, Kirpich IA, McClain CJ, Bataller R, Nanau RM, Voiculescu M, Opris M, Shen H, Tillman B, Li J, Liu H, Thomes PG, Ganesan M, Malnick S. Alcoholic and non-alcoholic steatohepatitis. *Exp Mol Pathol.*; 9 7(3):492-510, 2014.

Voiculescu M, Nanau RM, **Neuman MG**. Non-invasive biomarkers in non-alcoholic steatohepatitis-induced hepatocellular carcinoma. *J Gastrointest Liver Dis.*; 23(4):425-9, 2014.

**Neuman MG**, Cohen L, Zakhari S, Nanau RM, Mueller S, Schneider M, Parry C, Isip R, Seitz HK. Alcoholic liver disease: a synopsis of the Charles Lieber's Memorial Symposia 2009-2012. *Alcohol Alcohol.*; 49(4):373-80, 2014.

Cohen LB, Nanau RM, Delzor F, **Neuman MG**. Biologic therapies in inflammatory bowel disease. *Transl Res.*; 163(6):533-56, 2014.

Nanau RM, Delzor F, **Neuman MG**. Efficacy and safety of prasugrel in acute coronary syndrome patients. *Clin Biochem.y* ;47(7-8):516-28, 2014.

Nanau RM, Cohen LE, **Neuman MG**. Risk of infections of biological therapies with accent on inflammatory bowel disease. *J Pharm Pharm Sci.*; 17(4):485-531, 2014.

Nanau RM, **Neuman MG**. Safety of anti-tumor necrosis factor therapies in arthritis patients. *J Pharm Pharm Sci.*; 17(3):324-61, 2014.

Cooper C, Shafran S, Greenbloom S, Enns R, Farley F, Hilzerat N, Williams M, Elkashab M, Abadir N, **Neuman MG**. Single Dose Infliximab in Hepatitis C Genotype 1 Naïve Patients with High Serum tumor necrosis factor alpha does not Influence Efficacy of Pegylated Interferon alpha-2b/ Ribavirin Therapy. *Canadian J. Gastroenterology and Hepatology, J. Canadien de Gastroenterologie et Hepatologie*, 28, 1, 35-40, 2014

### **Nobrega JN**

Reznikov R, Diwan M, **Nobrega JN**, Hamani C. Towards a better preclinical model of PTSD: characterizing animals with weak extinction, maladaptive stress responses and low plasma corticosterone. *J Psychiatr Res.*; 61:158-65, 2014.

McCormick PN, Fletcher PJ, Wilson VS, Browne JD, **Nobrega JN**, Remington GJ. Low dose pramipexole causes D3 receptor-independent reduction of locomotion and responding for a conditioned reinforcer. *Neuropharmacology.*; 89:225-31, 2014.

Su P, Li S, Chen S, Lipina TV, Wang M, Lai TK, Lee FH, Zhang H, Zhai D, Ferguson SS, **Nobrega JN**, Wong AH, Roder JC, Fletcher PJ, Liu F. A dopamine D2 receptor-DISC1 protein complex may contribute to antipsychotic-like effects. *Neuron.*; 84(6):1302-16, 2014.

Hamani C, Amorim BO, Wheeler AL, Diwan M, Driesslein K, Covolan L, Butson CR, **Nobrega JN**. Deep brain stimulation in rats: different targets induce similar antidepressant-like effects but influence different circuits. *Neurobiol Dis.*; 71:205-14, 2014.

Wheeler AL, Creed MC, Voineskos AN, **Nobrega JN**. Changes in brain functional connectivity after chronic haloperidol in rats: a network analysis. *Int J Neuropsychopharmacol.*; 17(8):1129-38, 2014.

Laver B, Diwan M, **Nobrega JN**, Hamani C. Augmentative therapies do not potentiate the antidepressant-like effects of deep brain stimulation in rats. *J Affect Disord.*; 161:87-90, 2014.



Lister J, **Nobrega JN**, Fletcher PJ, Remington G. Oxidative stress and the antipsychotic-induced vacuous chewing movement model of tardive dyskinesia: evidence for antioxidant-based prevention strategies. *Psychopharmacology (Berl.)*; 231(11):2237-49, 2014.

Nona CN, Li R, **Nobrega JN**. Altered NMDA receptor subunit gene expression in brains of mice showing high vs. low sensitization to ethanol. *Behav Brain Res.*; 260:58-66, 2014.

Bregman T, Diwan M, **Nobrega JN**, Hamani C. Supraorbital stimulation does not induce an antidepressant-like response in rats. *Brain Stimul.*; 7(2):301-3, 2014.

Miranda MF, Hamani C, de Almeida AC, Amorim BO, Macedo CE, Fernandes MJ, **Nobrega JN**, Aarão MC, Madureira AP, Rodrigues AM, Andersen ML, Tufik S, Mello LE, Covolan L. Role of adenosine in the antiepileptic effects of deep brain stimulation. *Front Cell Neurosci.*; 8:312, 2014.

Mahar I, Bambico FR, Mechawar N, **Nobrega JN**. Stress, serotonin, and hippocampal neurogenesis in relation to depression and antidepressant effects. *Neurosci Biobehav Rev.*; 38:173-92, 2014.

Covolan L, de Almeida AC, Amorim B, Cavarsan C, Miranda MF, Aarão MC, Madureira AP, Rodrigues AM, **Nobrega JN**, Mello LE, Hamani C. Effects of anterior thalamic nucleus deep brain stimulation in chronic epileptic rats. *PLoS One.*; 9(6):e97618, 2014.

### **Nulman I**

Amant F, Halaska M, Fumagalli M, Dahl Steffensen K, Lok C, Van Calsteren K, Han S, Mir O, Fruscio R, Uzan C, Maxwell C, Dekrem J, Strauven G, Mhallem Gziri M, Kesic V, Berveiller P, Van den Heuvel F, Ottevanger N, Vergote I, Lishner M, Morice P, **Nulman I**. Gynecologic Cancers in Pregnancy: guidelines of a second international consensus meeting. *Int J Gynecol Cancer.* 12(3):394-403, 2014.

Shihmanter R, **Nulman I**, Goland S, Caspi A, Bar-Haim A, Harary I, Berkovitch M, Arcavi L. Variation in the CYP2D6 Genotype is Not Associated With Carvedilol Dose Changes in Patients With Heart Failure. *J Clin Pharm Ther.*; 39(4):432-8, 2014.

Brandlistuen RE, Ystrom E, **Nulman I**, Koren G, Nordeng H. In reply to methodological considerations on the study of in utero exposure to paracetamol and neurodevelopment outcomes. *Basic and Clinical Pharmacology and Toxicology.* October 2014.

Neuman G, **Nulman I**, Khosrow A, Koren G, Colantonio DA, Helldén A. Implications of Serum Creatinine Measurements on GFR estimation and Vancomycin Dosing in Children. *Journal of Clinical Pharmacology.*; 54(7):785-91, 2014.

Haynes K, **Nulman I**, Koren G. Fetal alcohol spectrum disorder and the neurobehavioural screening tool: evaluating the effect of maternal depression. *J Popul Ther Clin Pharmacol.*; 21(3):e387-94, 2014.

Gijzen VMGJ, van Schaik RHN, Soldin OP, Soldin SJ, **Nulman I**, Koren G, de Wildt SN. P450 oxidoreductase \*28 (POR\*28) and tacrolimus disposition in pediatric kidney transplant recipients: a pilot study. *Ther Drug Monit.*; 36(2):152-8, 2014.

Namouz S, **Nulman I**. Safety of Treatment of Obsessive Compulsive Disorder in Pregnancy and Puerperium. *Can Fam Physician.*; 60(2):133-6, 2014.

### **O'Dowd BF**

Hasbi A, Perreault ML, Shen MY, Zhang L, To R, Fan T, Nguyen T, Ji X, **O'Dowd BF**, George SR. A peptide targeting an interaction interface disrupts the dopamine D1-D2 receptor heteromer to block signaling and function in vitro and in vivo: effective selective antagonism. *FASEB J.*; 28(11):4806-20, 2014.

Kabli N, Nguyen T, Balboni G, **O'Dowd BF**, George SR. Antidepressant-like and anxiolytic-like effects following activation of the  $\mu$ - $\delta$  opioid receptor heteromer in the nucleus accumbens. *Mol Psychiatry.*; 19(9):986-94, 2014.

Kabli N, Fan T, **O'Dowd BF**, George SR.  $\mu$ - $\delta$  opioid receptor heteromer-specific signaling in the striatum and hippocampus. *Biochem Biophys Res Commun.*; 450(1):906-11, 2014.

Perreault ML, **O'Dowd BF**, George SR. Dopamine D<sub>1</sub>-D<sub>2</sub> receptor heteromer regulates signaling cascades involved in addiction: potential relevance to adolescent drug susceptibility. *Dev Neurosci.*; 36(3-4):287-96, 2014.

Perreault ML, Hasbi A, **O'Dowd BF**, George SR. Heteromeric dopamine receptor signaling complexes: emerging neurobiology and disease relevance. *Neuropsychopharmacology.*; 39(1):156-68, 2014.

### **Okey AB**

Houlahan KE, Prokopec SD, Moffat ID, Lindén J, Lensu S, **Okey AB**, Pohjanvirta R, Boutros PC. Transcriptional profiling of rat hypothalamus response to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicology.*; 328:93-101, 2014.

Sun RX, Chong LC, Simmons TT, Houlahan KE, Prokopec SD, Watson JD, Moffat ID, Lensu S, Lindén J, P'ng C, **Okey AB**, Pohjanvirta R, Boutros PC. Cross-species transcriptomic analysis elucidates constitutive aryl hydrocarbon receptor activity. *BMC Genomics.*; 15:1053, 2014.

Watson JD, Prokopec SD, Smith AB, **Okey AB**, Pohjanvirta R, Boutros PC. TCDD dysregulation of 13 AHR-target genes in rat liver. *Toxicol Appl Pharmacol.*; 274(3):445-54, 2014.

### **Pace-Asciak CR**

**Pace-Asciak CR.** Pathophysiology of the hepoxilins. *Biochim Biophys Acta.*; 1851(4):383-96, 2014.

Masood A, Yi M, Lau M, Belcastro R, Li J, Kantores C, **Pace-Asciak CR**, Jankov RP, Tanswell AK. Cyclooxygenase-2 inhibition partially protects against 60% O<sub>2</sub> -mediated lung injury in neonatal rats. *Pediatr Pulmonol.*; 49(10):991-1002, 2014.

### **Pang KS**

Durk MR, Fan J, Sun H, Yang Y, Pang H, **Pang KS**, de Lannoy IA. Vitamin D receptor activation induces P-glycoprotein and increases brain efflux of quinidine: an intracerebral microdialysis study in conscious rats. *Pharm Res.*; 32(3):1128-40, 2014.

Durk MR, Han K, Chow EC, Ahrens R, Henderson JT, Fraser PE, **Pang KS.** 1 $\alpha$ ,25-Dihydroxyvitamin D<sub>3</sub> reduces cerebral amyloid- $\beta$  accumulation and improves cognition in mouse models of Alzheimer's disease. *J Neurosci.*; 34(21):7091-101, 2014.

Chow EC, Magomedova L, Quach HP, Patel R, Durk MR, Fan J, Maeng HJ, Irondi K, Anakk S, Moore DD, Cummins CL, **Pang KS.** Vitamin D receptor activation down-regulates the small heterodimer partner and increases CYP7A1 to lower cholesterol. *Gastroenterology.*; 146(4):1048-59, 2014.

Kim, YC, Kim I-B, Noh C-K, Quach QP, Yoon IS, Chow, ECY, Kim M, Jin H-E, Cho KH, **Pang KS**, Maeng HJ: Effects of 1 $\alpha$ ,25-dihydroxyvitamin D<sub>3</sub>, the natural VDR ligand, on the pharmacokinetics of cefdinir and cefadroxil, OAT substrates, in rat.; 103(11):3793-805, 2014.

### **Parker JD**

McLaughlin K, Lytvyn Y, Luca MC, Liuni A, Gori T, **Parker JD.** Repeated daily dosing with sildenafil provides sustained protection from endothelial dysfunction caused by ischemia and reperfusion: a human in vivo study. *Am J Physiol Heart Circ Physiol.*; 307(6):H888-94, 2014.

Cotter G(1), Metra M, Davison BA, Senger S, Bourge RC, Cleland JG, Jondeau G, Krum H, O'Connor CM, **Parker JD**, Torre-Amione G, van Veldhuisen DJ, Milo O, Kobrin I, Rainisio M, McMurray JJ, Teerlink JR; VERITAS Investigators. Worsening heart failure, a critical event during hospital admission for acute heart failure: results from the VERITAS study. *Eur J Heart Fail.*; 16(12):1362-71, 2014

### **Piquette-Miller M**

Vassileva V, **Piquette-Miller M.** Inflammation: the dynamic force of health and disease. *Clin Pharmacol Ther.*; 96(4):401-5, 2014.

Cressman AM, McDonald CR, Silver K, Kain KC, **Piquette-Miller M**. Malaria infection alters the expression of hepatobiliary and placental drug transporters in pregnant mice. *Drug Metab Dispos.*; 42(4):603-10, 2014.

Dubbelboer IR, Lilienberg E, Hedeland M, Bondesson U, **Piquette-Miller M**, Sjögren E, Lennernäs H. The effects of lipiodol and cyclosporin A on the hepatobiliary disposition of doxorubicin in pigs. *Mol Pharm.*; 11(4):1301-13, 2014.

### **Pollock BG**

Gerretsen P, Menon M, Mamo DC, Fervaha G, Remington G, **Pollock BG**, Graff-Guerrero G. Impaired Insight into Illness and Cognitive Insight in Schizophrenia Spectrum Disorders: Resting State Functional Connectivity. *Schizophrenia Research.*; 160(1-3):43-50, 2014.

Gerretsen P, Remington G, Borlido C, Quilty L, Hasan S, Polsinelli G, Teo C, Mar W, Simon R, Menon M, Pothier DD, Nakajima S, Caravaggio F, Mamo DC, Rajji TK, Mulsant BH, Deluca V, Ganguli R, **Pollock BG**, Graff-Guerrero A. The VAGUS Insight into Psychosis Scale - Self-Report & Clinician-Rated Versions. *Psychiatry Research.*; 220(3):1084-9, 2014.

Rossi A, Burkhart C, Dell-Kuster S, **Pollock BG**, Strebel SP, Monsch AU, Kern C, Steiner LA. Serum Anticholinergic Activity and Postoperative Cognitive Dysfunction in Elderly Patients. *Anesth Analg.*; 119(4):947-55, 2014.

Felsky D, Szeszko P, Yu L, Honer WG, De Jager PL, Schneider JA, Malhotra AK, Lencz T, Ikuta T, Pipitone J, Chakravarty MM, Lobaugh NJ, Mulsant BH, **Pollock BG**, Kennedy JL, Bennett DA, Voineskos AN. The SORL1 Gene and Convergent Neural Risk for Alzheimer's Disease Across the Human Lifespan. *Molecular Psychiatry.*; 19(10):1125-32, 2014.

Garfield LD, Dixon D, Nowotny P, Lotrich FE, **Pollock BG**, Kristjansson SD, Doré PM, Lenze EJ. Common SSRI side-effects in older adults associated with genetic polymorphisms in the serotonin transporter and receptors: Data from a randomized controlled trial. *Am J Geriatric Psychiatry.*; 2(10):971-79, 2014.

Uchida H, Suzuki T, Graff-Guerrero A, Mulsant BH, **Pollock BG**, Arenovich T, Rajji TK, Mamo D. Therapeutic window for striatal dopamine D2/3 receptor occupancy in older patients with schizophrenia: A pilot PET study. *Am J Geriatric Psychiatry.*; 22(10):1007-1016, 2014.

Li CH, Stratford Jr RE, Velez de Mendizabal N, Cremers TIFH, **Pollock BG**, Mulsant B, Remington G, Bies RR. Prediction of Brain Clozapine and Norclozapine Concentrations in Humans from a Scaled Pharmacokinetic Model for Rat Brain and Plasma Pharmacokinetics. *Journal of Translational Medicine.*; 12:203, 2014.

Tada M, Uchida H, Suzuki T, Abe T, **Pollock BG**, Mimura M. Baseline Difference between Patients' and Clinicians' Rated Illness Severity Scores and Subsequent Outcomes in Major Depressive Disorder: Analysis of the analysis of the sequenced treatment alternatives to relieve depression data. *J Clin Psychopharm.*; 34(3):297-302, 2014.

Drye LT, Spragg D, Devanand DP, Frangakis C, Marano C, Meinert CL, Mintzer JE, Munro CA, Pelton G, **Pollock BG**, Porsteinsson AP, Rabins PV, Rosenberg PB, Schneider LS, Shade DM, Weintraub D, Yesavage J, Lyketsos CG for the CitAD Research Group. Changes in QTc interval in the Citalopram for agitation in Alzheimer's Disease (CitAD) randomized trial. *PLOS One.*; 9(6):e9842, 2014.

Yoshida K, Bies RR, Suzuki T, Remington G, **Pollock BG**, Mizuno Y, Mimura M, Uchida H. Tardive dyskinesia in relation to estimated dopamine D2 receptor occupancy in patients with schizophrenia: analysis of the CATIE data. *Schizophr Res.*; 153(1-3):184-88, 2014.

Porsteinsson AP, Drye LT, **Pollock BG**, Devanand DP, Frangakis C, Ismail Z, Marano C, Meinert CL, Mintzer JE, Munro CA, Pelton G, Rabins PV, Rosenberg PB, Schneider LS, Shade DM, Weintraub D, Yesavage J, Lyketsos CG for the CitAD Research Group. Effect of Citalopram on Agitation in Alzheimer's Disease – The CitAD Randomized Controlled Trial. *JAMA.*; 311(7):682-691, 2014.

### **Ramsey AJ**

Masoud ST, Vecchio LM, Bergeron Y, Hossain MM, Nguyen LT, Bermejo MK, Kile B, Sotnikova TD, Siesser WB, Gainetdinov RR, Wightman RM, Caron MG, Richardson JR, Miller GW, **Ramsey AJ**, Cyr M, Salahpour A. Increased expression of the dopamine transporter leads to loss of dopamine neurons, oxidative stress and l-DOPA reversible motor deficits. *Neurobiol Dis.*; 74:66-75, 2014.

Ruddy RM, Chen Y, Milenkovic M, **Ramsey AJ**. Differential effects of NMDA receptor antagonism on spine density. *Synapse.*; 69(1):52-6, 2014.

Milenkovic M, Mielnik CA, **Ramsey AJ**. NMDA receptor-deficient mice display sexual dimorphism in the onset and severity of behavioural abnormalities. *Genes Brain Behav.*; 13(8):850-62, 2014.

Bermejo MK, Milenkovic M, Salahpour A, **Ramsey AJ**. Preparation of synaptic plasma membrane and postsynaptic density proteins using a discontinuous sucrose gradient. *J Vis Exp.*; (91):e51896, 2014.

Mielnik CA, Horsfall W, **Ramsey AJ**. Diazepam improves aspects of social behaviour and neuron activation in NMDA receptor-deficient mice. *Genes Brain Behav.*; 13(7):592-602, 2014.

Vecchio LM, Bermejo MK, Beerepoot P, **Ramsey AJ**, Salahpour A. N-terminal tagging of the dopamine transporter impairs protein expression and trafficking in vivo. *Mol Cell Neurosci.*; 61:123-32, 2014.

Ferris MJ, Milenkovic M, Liu S, Mielnik CA, Beerepoot P, John CE, España RA, Sotnikova TD, Gainetdinov RR, Borgland SL, Jones SR, **Ramsey AJ**. Sustained N-methyl-d-aspartate receptor hypofunction remodels the dopamine system and impairs phasic signaling. *Eur J Neurosci.*; 40(1):2255-63, 2014.

Mielnik CA, **Ramsey AJ**. Drugs that Target the Glutamate Synapse: Implications for the Glutamate Hypothesis of Schizophrenia. In: Drug Discovery for Schizophrenia, Edited by Tatiana Lipina and John C Roder. Royal Society of Chemistry (Cambridge). pp 115-39.

### **Ross RA**

Gamage TF, Ignatowska-Jankowska BM, Wiley JL, Abdelrahman M, Trembleau L, Greig IR, Thakur GA, Tichkule R, Poklis J, **Ross RA**, Pertwee RG, Lichtman AH. In-vivo pharmacological evaluation of the CB1-receptor allosteric modulator Org-27569. *Behav Pharmacol.*; 25(2):182-5, 2014.

Imbernon M, Whyte L, Diaz-Arteaga A, Russell WR, Moreno NR, Vazquez MJ, Gonzalez CR, Díaz-Ruiz A, Lopez M, Malagón MM, **Ross RA**, Dieguez C, Nogueiras R. Regulation of GPR55 in rat white adipose tissue and serum LPI by nutritional status, gestation, gender and pituitary factors. *Mol Cell Endocrinol.*; 383(1-2):159-69, 2014.

Shore DM, Baillie GL, Hurst DH, Navas F 3rd, Seltzman HH, Marcu JP, Abood ME, **Ross RA**, Reggio PH. Allosteric modulation of a cannabinoid G protein-coupled receptor: binding site elucidation and relationship to G protein signaling. *J Biol Chem.*; 289(9):5828-45, 2014.

### **Roy PJ**

Chan K, Seetharaman A, Bagg R, Selman G, Zhang Y, Kim J and **Roy PJ**. EVA-1 Functions as an UNC-40 Co-Receptor to Enhance Attraction to the MADD-4 Guidance Cue in *Caenorhabditis elegans*. *PLoS Genetics.*; 10(8):e1004521. eCollection, 2014.

### **Salahpour A**

Masoud ST, Vecchio LM, Bergeron Y, Hossain MM, Nguyen LT, Bermejo MK, Kile B, Sotnikova TD, Siesser WB, Gainetdinov RR, Wightman RM, Caron MG, Richardson JR, Miller GW, Ramsey AJ, Cyr M, **Salahpour A**. Increased expression of the dopamine transporter leads to loss of dopamine neurons, oxidative stress and L-DOPA reversible motor deficits. *Neurobiol Dis.*; 74:66-75, 2014.

Bermejo MK, Milenkovic M, **Salahpour A**, Ramsey AJ. Preparation of synaptic plasma membrane and postsynaptic density proteins using a discontinuous sucrose gradient. *J Vis Exp.*3;(91):e51896, 2014.

Lohr KM, Bernstein AI, Stout KA, Dunn AR, Lazo CR, Alter SP, Wang M, Li Y, Fan X, Hess EJ, Yi H, Vecchio LM, Goldstein DS, Guillot TS, **Salahpour A**, Miller GW. Increased vesicular monoamine transporter enhances dopamine release and opposes Parkinson disease-related neurodegeneration in vivo. *Proc Natl Acad Sci U S A.*; 111(27):9977-82, 2014.

Vecchio LM, Bermejo MK, Beerepoot P, Ramsey AJ, **Salahpour A**. N-terminal tagging of the dopamine transporter impairs protein expression and trafficking in vivo. *Mol Cell Neurosci.*; 61:123-32, 2014.

Calipari ES, Ferris MJ, Melchior JR, Bermejo K, **Salahpour A**, Roberts DC, Jones SR. Methylphenidate and cocaine self-administration produce distinct dopamine terminal alterations. *Addict Biol.*; 19(2):145-55, 2014.

### **Salmena L**

Kotsopoulos J, Zhang S, Akbari M, **Salmena L**, Llacuachqui M, Zeligs M, Sun P, Narod SA. BRCA1 mRNA levels following a 4-6-week intervention with oral 3,3'-diindolylmethane. *Br J Cancer.*; 111(7):1269-74, 2014.

**Salmena L**. Pseudogene redux with new biological significance. *Methods Mol Biol.*; 1167:3-13, 2014.

**Salmena L**. Pseudogene redux with new biological significance. *Methods Mol Biol.*; 1167:3-13, 2014.

### **Schapira M**

Gu L, Frommel SC, Oakes CC, Simon R, Grupp K, Gerig CY, Bär D, Robinson MD, Baer C, Weiss M, Gu Z, **Schapira M**, Kuner R, Sültmann H, Provenzano M; ICGC Project on Early Onset Prostate Cancer, Yaspo ML, Brors B, Korbel J, Schlomm T, Sauter G, Eils R, Plass C, Santoro R. BAZ2A (TIP5) is involved in epigenetic alterations in prostate cancer and its overexpression predicts disease recurrence. *Nat Genet.*; 47(1):22-30, 2014.

Barsyte-Lovejoy D, Li F, Oudhoff MJ, Tatlock JH, Dong A, Zeng H, Wu H, Freeman SA, **Schapira M**, Senisterra GA, Kuznetsova E, Marcellus R, Allali-Hassani A, Kennedy S, Lambert JP, Couzens AL, Aman A, Gingras AC, Al-Awar R, Fish PV, Gerstenberger BS, Roberts L, Benn CL, Grimley RL, Braam MJ, Rossi FM, Sudol M, Brown PJ, Bunnage ME, Owen DR, Zaph C, Vedadi M, Arrowsmith CH. (R)-PFI-2 is a potent and selective inhibitor of SETD7 methyltransferase activity in cells. *Proc Natl Acad Sci U S A.*; 111(35):12853-8, 2014.

Eram MS, Bustos SP, Lima-Fernandes E, Siarheyeva A, Senisterra G, Hajian T, Chau I, Duan S, Wu H, Dombrovski L, **Schapira M**, Arrowsmith CH, Vedadi M. Trimethylation of histone H3 lysine 36 by human methyltransferase PRDM9 protein. *J Biol Chem.*; 289(17):12177-88, 2014.

Allali-Hassani A, Kuznetsova E, Hajian T, Wu H, Dombrovski L, Li Y, Gräslund S, Arrowsmith CH, **Schapira M**, Vedadi M. A Basic Post-SET Extension of NSDs Is Essential for Nucleosome Binding In Vitro. *J Biomol Screen.*; 19(6):928-935, 2014. [Epub ahead of print].

Shah MA, Denton EL, Liu L, **Schapira M**. ChromoHub V2: cancer genomics. *Bioinformatics.*; 30(4):590-2, 2014.

Shah MA, Denton EL, Arrowsmith CH, Lupien M, **Schapira M**. A global assessment of cancer genomic alterations in epigenetic mechanisms. *Epigenetics Chromatin.*; 7(1):29. 2014.

### **Seeman P**

Seeman MV, **Seeman P**. Is schizophrenia a dopamine supersensitivity psychotic reaction? *Progress in Neuro-psychopharmacology and Biological Psychiatry* 48: 155-160 (2014).

Discovery of why acute lymphoblastic leukemia cells are killed by asparaginase. Adventures of a young post-doctoral student, Bertha K. Madras. *Journal of Medical Biography* 22 (2): 90-92 (2014).

Kennedy SH, Placenza F, Hudson CJ, **Seeman P**, Seeman MV. Depression treatment by withdrawal of short-term low-dose antipsychotic, a proof-of-concept randomised double-blind study. *Journal of Affective Disorders* 166: 139-143 (2014).

**Seeman P**. Clozapine, a fast-off-D2 antipsychotic. *American Chemical Society Chemical Neuroscience* 5(1): 24-29 (2014).

Finnema SJ, Stepanov V, Nakao R, Sromek AW, Zhang T, Neumeyer JL, George SR, **Seeman P**, Stabin MG, Jonsson C, Farde L, Halldin C. [<sup>18</sup>F]MCL-524, an <sup>18</sup>F-Labeled Dopamine D2 and D3 Receptor Agonist Sensitive to Dopamine – A Preliminary PET Study. *Journal of Nuclear Medicine* 55 (77): 1164-1170 (2014).

**Seeman P**. Yes, breast is best, but taper domperidone when stopping. eLetter, *British Journal of General Practice*, published Jan. 15, 2014.

Hudson CJ, **Seeman P**, Seeman MV. Parkinson's disease: low-dose haloperidol increases dopamine receptor sensitivity and clinical response. (*Parkinson's Disease*, Vol 2014, 1-5, 2014).

**Seeman P**. Therapeutic occupation of dopamine D2 antipsychotic receptors in Alzheimer's disease. *International Journal of Geriatric Psychiatry*, Vol. 29, issue 10, p 1096, 2014.

### **Semple JW**

Guo L, Yang L, Speck ER, Aslam R, Kim M, McKenzie CGJ, Lazarus AH, Ni H, Hou M, Freedman J, **Semple JW**. Allogeneic platelet transfusions prevent murine T cell-mediated immune thrombocytopenia (ITP). *Blood*. 123(3):422-427, 2014.

McKenzie CGJ, Kim M, Singh TK, Milev Y, Freedman J, **Semple JW**: Peripheral blood monocyte-derived chemokine blockade prevents murine antibody-mediated transfusion related acute lung injury (TRALI). *Blood*. 123(22):3496-3503, 2014.

Foley SR, Solano C, Simonova G, Spanevello MM, Bird RJ, **Semple JW**, Jackson DE, Schibler A, Fraser JF, Fung YL. A comprehensive study of ovine haemostasis to assess suitability to model human coagulation. *Thromb Res*. 134(2):468-73, 2014.



Boudreau LH, Duchez A-C, Soulet D, Cloutier N, Martin N, Bollinger J, Paré A, Rousseau M, Rohan G, Lévesque T, Laflamme C, Marcoux G, Lambeau G, Farndale R, Landolt-Marticorena C, Pouliot M, Hamzeh-Cognasse H, Cognasse F, Garraud O, Fortin P, Nigrovic P, Guderley H, Lacroix S, Thibault L, **Semple JW**, Gelb M, Boliard E. Platelets release mitochondria serving as substrate for bactericidal group IIA secreted phospholipase A<sub>2</sub> to promote inflammation. *Blood*. 124(14):2173-2183, 2014.

**Semple JW**. The immune system as seen through the eyes of a platelet. *Vox Sang. Sci. Series*. 9(1):198-203, 2014.

Cines D, Cuker A, **Semple JW**. Pathogenesis of ITP. *Presse Med*. 43(4Pt2):e49-59, 2014.

**Semple JW**. Platelet GPIb-IX Has Suppressive Effects on Septic Inflammation. *Arterioscler Thromb Vasc Biol*. 34(5):962-3, 2014.

### **Shear NH**

Heelan K, Knowles SR, Walsh S, **Shear NH**. Effect of concomitant statin use on rituximab treatment for pemphigus and pemphigoid disorders: a case based review. *J Eur Acad Dermatol Venerol.*; 28: 520-522, 2014.

Laws P, Kingston TP, Walsh S, **Shear NH**. Cytomegalovirus retinitis: A rare but preventable cause of blindness in dermatology patients. *J Cut Med Surg.*; 18: 287-90, 2014.

**Shear NH**, Hartmann M, Toledo-Bahena M, Katsambas A, Connors L, Chang Q, Yao R, Nograles K, Popmihajlov Z on Behalf of All REALITY Investigators. Long-term efficacy and safety of infliximab maintenance therapy in patients with plaque-type psoriasis in real-world practice. *Br J Dermatol.*; 171(3): 631-41, 2014.

Heelan K, Al-Mohammed F, Smith M, Knowles S, Lansang P, Walsh S, **Shear NH**. Durable remission of pemphigus with a fixed-dose rituximab protocol. *JAMA Dermatol.*; 150(7):703-708, 2014.

Baibergenova A, Drucker AM, **Shear NH**. Hospitalizations for cellulitis in Canada: a database study. *J Cutan Med Surg.*; 18:33-7, 2014.

Laws PM, **Shear NH**, Pope E. Childhood mycosis fungoides: Experience of 28 patients and response to phototherapy. *Ped Dermatol*; 31(4):459-64, 2014.

Dodiuk-Gad R, Chung W-H, Yang C-H, Lu C-W, Hui R C-Y, **Shear NH**. The 8th International Congress on Cutaneous Adverse Drug Reactions, Taiwan, 2013 - Focus on Severe Cutaneous Adverse Reactions. *Drug Saf*; 37: 459-464, 2014.

Amstutz U, **Shear NH**, Rieder MJ, Hwang S, Fung V, Nakamura H, Connolly MB, Ito S, Carleton BC, the CPNDS clinical recommendation group. Recommendations for HLA-B\*15:02 and HLA-A\*31:01 genetic testing to reduce the risk of carbamazepine-induced hypersensitivity reactions. *Epilepsia.*; 55 (4): 496-506, 2014.

Bergman H, Walton T, Del Bel R, Seki J, Xu W, Koren G, **Shear NH**, Kryzanowska M, Howell D, Liu G. Management of skin toxicities related to panitumumab. *J Am Acad Dermatol*; 71: 754-9. Jul 29. pii: S0190-9622(14)01572-2, 2014.

Kanwar AJ, Vinay K, Sawatkar GU, Dogra S, Minz RW, **Shear NH**, Koga H, Ishii N, Hashimoto T. *Br J Dermatol*.; 170: 1341- 49, 2014.

### **Sun HS**

Barszczyk A, **Sun HS**, Quan Y, Zheng W, Charlton MP, Feng ZP. Differential roles of the mevalonate pathway in the development and survival of mouse Purkinje cells in culture. *Mol Neurobiol*.; 51(3):1116-29, 2014.

**Sun HS**, Xu B, Chen W, Xiao A, Turlova E, Alibraham A, Barszczyk A, Bae CY, Quan Y, Liu B, Pei L, Sun CL, Deurloo M, Feng ZP. Neuronal K(ATP) channels mediate hypoxic preconditioning and reduce subsequent neonatal hypoxic-ischemic brain injury. *Exp Neurol*.; 263:161-71, 2014.

Xiao AJ, Chen W, Xu B, Liu R, Turlova E, Barszczyk A, Sun CL, Liu L, Deurloo M, Wang GL, Feng ZP, **Sun HS**. Marine compound xyloketal B reduces neonatal hypoxic-ischemic brain injury. *Mar Drugs*.; 13(1):29-47, 2014.

Turlova E, Bae CY, Deurloo M, Chen W, Barszczyk A, Horgen FD, Fleig A, Feng ZP, **Sun HS**. TRPM7 Regulates Axonal Outgrowth and Maturation of Primary Hippocampal Neurons. *Mol Neurobiol*. 2014 Dec 11. [Epub ahead of print].

Lv S, Turlova E, Zhao S, Kang H, Han M, **Sun HS**. Prognostic and clinicopathological significance of survivin expression in bladder cancer patients: a meta-analysis. *Tumour Biol*.; 35(2):1565-74, 2014.

### **Swardfager W**

Santiago C, Herrmann N, **Swardfager W**, Saleem M, Oh PI, Black SE, Lanctôt KL. White Matter Microstructural Integrity Is Associated with Executive Function and Processing Speed in Older Adults with Coronary Artery Disease. *Am J Geriatr Psychiatry*.; 23(7):754-63, 2014.

Marzolini S, **Swardfager W**, Alter DA, Oh PI, Tan Y, Goodman JM. Quality of life and psychosocial measures influenced by exercise modality in patients with coronary artery disease. *Eur J Phys Rehabil Med*.; 51(3):291-9, 2014.

MacIntosh BJ, **Swardfager W**, Robertson AD, Tchistiakova E, Saleem M, Oh PI, Herrmann N, Stefanovic B, Lanctôt KL. Regional cerebral arterial transit time hemodynamics correlate with vascular risk factors and cognitive function in men with coronary artery disease. *AJNR Am J Neuroradiol*.; 36(2):295-301, 2014.

**Swardfager W**, Herrmann N, Mazereeuw G, Lanctôt KL. Reply to: Serum zinc and the risk of depression in men: observations from a 20-year follow-up study. *Biol Psychiatry.*; 77(3):e13-4, 2014.

**Swardfager W**, Lynch M, Dubey S, Nagy PM. Neuroinflammation mediates synergy between cerebral ischemia and amyloid- $\beta$  to cause synaptic depression. *J Neurosci.*; 34(41):13571-3, 2014.

McIntyre RS, Cha DS, Jerrell JM, **Swardfager W**, Kim RD, Costa LG, Baskaran A, Soczynska JK, Woldeyohannes HO, Mansur RB, Brietzke E, Powell AM, Gallagher A, Kudlow P, Kaidanovich-Beilin O, Alsuwaidan M. Advancing biomarker research: utilizing 'Big Data' approaches for the characterization and prevention of bipolar disorder. *Bipolar Disord.*; 16(5):531-47, 2014.

Rizzo LB, Costa LG, Mansur RB, **Swardfager W**, Belangero SI, Grassi-Oliveira R, McIntyre RS, Bauer ME, Brietzke E. The theory of bipolar disorder as an illness of accelerated aging: implications for clinical care and research. *Neurosci Biobehav Rev.*; 42:157-69,

**Swardfager W**, Herrmann N, Andreazza AC, Swartz RH, Khan MM, Black SE, Lanctôt KL. Poststroke neuropsychiatric symptoms: relationships with IL-17 and oxidative stress. *Biomed Res Int.*; 2014:245210.

Bensimon K, Herrmann N, **Swardfager W**, Yi H, Black SE, Gao FQ, Snaiderman A, Lanctôt KL. Kynurenine and depressive symptoms in a poststroke population. *Neuropsychiatr Dis Treat.*; 10:1827-35, 2014.

MacIntosh BJ, **Swardfager W**, Crane DE, Ranepura N, Saleem M, Oh PI, Stefanovic B, Herrmann N, Lanctôt KL. Cardiopulmonary fitness correlates with regional cerebral grey matter perfusion and density in men with coronary artery disease. *PLoS One.*; 9(3):e91251, 2014.

Lanctôt KL, O'Regan J, Schwartz Y, **Swardfager W**, Saleem M, Oh PI, Herrmann N. Assessing cognitive effects of anticholinergic medications in patients with coronary artery disease. *Psychosomatics.*; 55(1):61-8, 2014.

### **Tong Y**

Fang L, Zhang L, Wei W, Jin X, Wang P, **Tong Y**, Li J, Du JX, Wong J. (2014). A methylation-phosphorylation switch determines Sox2 stability and function in ESC maintenance or differentiation. *Mol Cell.* 55(4): 537-551, 2014.

Feng C, Liu Y, Wang G, Deng Z, Zhang Q, Wu W, **Tong Y**, Cheng C, Chen Z. (2014). Crystal structures of the human RNA demethylase Alkbh5 reveal basis for substrate recognition. *J Biol Chem.* 289(17):11571-11583, 2014.

**Tong Y**, Dong A, Xu X, Wernimont A. (2014). Salvage or recovery of failed targets by in situ proteolysis. Wayne F. Anderson Eds. *Methods in Molecular Biology*. (1140): 179-188, 2014. Springer New York

### **Tyndale RF (33)**

Wassenaar CA, Conti DV, Das S, Chen P, Cook EH, Ratain MJ, Benowitz NL, **Tyndale RF**. UGT1A and UGT2B genetic variation alters nicotine and nitrosamine glucuronidation in european and african american smokers. *Cancer Epidemiol Biomarkers Prev.*; 24(1):94-104, 2014.

Wassenaar CA, Ye Y, Cai Q, Aldrich MC, Knight J, Spitz MR, Wu X, Blot WJ, **Tyndale RF**. CYP2A6 reduced activity gene variants confer reduction in lung cancer risk in African American smokers--findings from two independent populations. *Carcinogenesis.*; 36(1):99-103, 2014.

Tani N, Juvonen RO, Raunio H, Fashe M, Leppänen J, Zhao B, **Tyndale RF**, Rahnasto-Rilla M. Rational design of novel CYP2A6 inhibitors. *Bioorg Med Chem.*; 22(23):6655-64, 2014.

Bergen AW, Javitz HS, Krasnow R, Michel M, Nishita D, Conti DV, Edlund CK, Kwok PY, McClure JB, Kim RB, Hall SM, **Tyndale RF**, Baker TB, Benowitz NL, Swan GE. Organic cation transporter variation and response to smoking cessation therapies. *Nicotine Tob Res.*; 16(12):1638-46, 2014.

Garcia KL, Lê AD, **Tyndale RF**. Effect of food training and training dose on nicotine self-administration in rats. *Behav Brain Res.*; 274:10-8, 2014.

Zhu AZ, Zhou Q, Cox LS, Ahluwalia JS, Benowitz NL, **Tyndale RF**. Gene variants in CYP2C19 are associated with altered in vivo bupropion pharmacokinetics but not bupropion-assisted smoking cessation outcomes. *Drug Metab Dispos.*; 42(11):1971-7, 2014.

Bagdas D, Muldoon PP, Zhu AZ, **Tyndale RF**, Damaj MI. Effects of methoxsalen, a CYP2A5/6 inhibitor, on nicotine dependence behaviors in mice. *Neuropharmacology.*; 85:67-72, 2014.

Chenoweth MJ, Novalen M, Hawk LW Jr, Schnoll RA, George TP, Cinciripini PM, Lerman C, **Tyndale RF**. Known and novel sources of variability in the nicotine metabolite ratio in a large sample of treatment-seeking smokers. *Cancer Epidemiol Biomarkers Prev.*; 23(9):1773-82, 2014.

Craig EL, Zhao B, Cui JZ, Novalen M, Miksys S, **Tyndale RF**. Nicotine pharmacokinetics in rats is altered as a function of age, impacting the interpretation of animal model data. *Drug Metab Dispos.*; 42(9):1447-55, 2014.

Zhu AZ, Zhou Q, Cox LS, David SP, Ahluwalia JS, Benowitz NL, **Tyndale RF**. Association of CHRNA5-A3-B4 SNP rs2036527 with smoking cessation therapy response in African-American smokers. *Clin Pharmacol Ther.*; 96(2):256-65, 2014.

O'Loughlin J, Dugas EN, Brunet J, DiFranza J, Engert JC, Gervais A, Gray-Donald K, Karp I, Low NC, Sabiston C, Sylvestre MP, **Tyndale RF**, Auger N, Auger N, Mathieu B, Tracie B,

Chaiton M, Chenoweth MJ, Constantin E, Contreras G, Kakinami L, Labbe A, Maximova K, McMillan E, O'Loughlin EK, Pabayo R, Roy-Gagnon MH, Tremblay M, Wellman RJ, Hulst A, Paradis G. Cohort Profile: The Nicotine Dependence in Teens (NDIT) Study. *Int J Epidemiol.* pii: dyu135. [Epub ahead of print] PubMed PMID: 25022274. 2014.

Khokhar JY, **Tyndale RF**. Intracerebroventricularly and systemically delivered inhibitor of brain CYP2B (C8-Xanthate), even following chlorpyrifos exposure, reduces chlorpyrifos activation and toxicity in male rats. *Toxicol Sci.*; 140(1):49-60, 2014.

Miller RT, Miksys S, Hoffmann E, **Tyndale RF**. Ethanol self-administration and nicotine treatment increase brain levels of CYP2D in African green monkeys. *Br J Pharmacol.*; 171(12):3077-88, 2014.

Schnoll RA, George TP, Hawk L, Cinciripini P, Wileyto P, **Tyndale RF**. The relationship between the nicotine metabolite ratio and three self-report measures of nicotine dependence across sex and race. *Psychopharmacology (Berl.)*; 231(12):2515-23, 2014.

Leventhal AM, Lee W, Bergen AW, Swan GE, **Tyndale RF**, Lerman C, Conti DV. Nicotine dependence as a moderator of genetic influences on smoking cessation treatment outcome. *Drug Alcohol Depend.*; 138:109-17, 2014.

Cascorbi I, **Tyndale RF**. Progress in pharmacogenomics: bridging the gap from research to practice. *Clin Pharmacol Ther.*; 95(3):231-5, 2014.

Chenoweth MJ, Zhu AZ, Sanderson Cox L, Ahluwalia JS, Benowitz NL, **Tyndale RF**. Variation in P450 oxidoreductase (POR) A503V and flavin-containing monooxygenase (FMO)-3 E158K is associated with minor alterations in nicotine metabolism, but does not alter cigarette consumption. *Pharmacogenet Genomics*;24(3):172-6, 2014.

Caudle KE, Klein TE, Hoffman JM, Muller DJ, Whirl-Carrillo M, Gong L, McDonagh EM, Sangkuhl K, Thorn CF, Schwab M, Agundez JA, Freimuth RR, Huser V, Lee MT, Iwuchukwu OF, Crews KR, Scott SA, Wadelius M, Swen JJ, **Tyndale RF**, Stein CM, Roden D, Relling MV, Williams MS, Johnson SG. Incorporation of pharmacogenomics into routine clinical practice: the Clinical Pharmacogenetics Implementation Consortium (CPIC) guideline development process. *Curr Drug Metab.*; 15(2):209-17. PubMed PMID: 24479687; PubMed Central PMCID: PMC3977533, 2014.

Piliguian M, Zhu AZ, Zhou Q, Benowitz NL, Ahluwalia JS, Sanderson Cox L, **Tyndale RF**. Novel CYP2A6 variants identified in African Americans are associated with slow nicotine metabolism in vitro and in vivo. *Pharmacogenet Genomics.*; 24(2):118-28m 2014.

22: Alsharari SD, Siu EC, **Tyndale RF**, Damaj MI. Pharmacokinetic and pharmacodynamics studies of nicotine after oral administration in mice: effects of methoxsalen, a CYP2A5/6 inhibitor. *Nicotine Tob Res.*;16(1):18-25, 2014.

**Uetrecht JP**

Lobach AR, **Uetrecht J**. Clozapine promotes the proliferation of granulocyte progenitors in the bone marrow leading to increased granulopoiesis and neutrophilia in rats. *Chem Res Toxicol.* ; 27(7):1109-19, 2014.

Lobach AR, **Uetrecht J**. Involvement of myeloperoxidase and NADPH oxidase in the covalent binding of amodiaquine and clozapine to neutrophils: implications for drug-induced agranulocytosis. *Chem Res Toxicol.*; 27(4):699-709, 2014.

Metushi IG, Zhu X, **Uetrecht J**. D-penicillamine-induced granulomatous hepatitis in brown Norway rats. *Mol Cell Biochem.*; 393(1-2):229-35, 2014.

Metushi IG, Sanders C; Acute Liver Study Group, Lee WM, **Uetrecht J**. Detection of anti-isoniazid and anti-cytochrome P450 antibodies in patients with isoniazid-induced liver failure. *Hepatology.*; 59(3):1084-93, 2014.

Metushi IG, Lee WM, **Uetrecht J**. IgG3 is the dominant subtype of anti-isoniazid antibodies in patients with isoniazid-induced liver failure. *Chem Res Toxicol.*; 27(5):738-40, 2014.

Metushi IG, **Uetrecht J**. Isoniazid-induced liver injury and immune response in mice. *J Immunotoxicol.*; 11(4):383-92, 2014.

Metushi IG, **Uetrecht J**. Lack of liver injury in Wistar rats treated with the combination of isoniazid and rifampicin. *Mol Cell Biochem.*; 387(1-2):9-17, 2014.

Metushi IG, Zhu X, Chen X, Gardam MA, **Uetrecht J**. Mild isoniazid-induced liver injury in humans is associated with an increase in Th17 cells and T cells producing IL-10. *Chem Res Toxicol.*; 27(4):683-9, 2014.

Metushi IG, Cai P, Vega L, Grant DM, **Uetrecht J**. Paradoxical attenuation of autoimmune hepatitis by oral isoniazid in wild-type and N-acetyltransferase-deficient mice. *Drug Metab Dispos.*; 42(6):963-73, 2014.

Ng W, Kennar R, **Uetrecht J**. Effect of clozapine and olanzapine on neutrophil kinetics: implications for drug-induced agranulocytosis. *Chem Res Toxicol.*; 27(7):1104-8, 2014.

Sharma AM, **Uetrecht J**. Bioactivation of drugs in the skin: relationship to cutaneous adverse drug reactions. *Drug Metab Rev.*; 46(1):1-18, 2014.

Shuhendler AJ, Pu K, Cui L, **Uetrecht J**, Rao J. Real-time imaging of oxidative and nitrosative stress in the liver of live animals for drug-toxicity testing. *Nat Biotechnol.*; 32(4):373-80, 2014.

Weston JK, **Uetrecht J**. Activation of inflammasomes by agents causing idiosyncratic skin reactions: a possible biomarker. *Chem Res Toxicol.*; 27(6):949-, 2014.

**Vedadi M**

Xu B, On DM, Ma A, Parton T, Konze KD, Pattenden SG, Allison DF, Cai L, Rockowitz S, Liu S, Liu Y, Li F, **Vedadi M**, Frye SV, Garcia BA, Zheng D, Jin J, Wang GG. Selective inhibition of EZH2 and EZH1 enzymatic activity by a small molecule suppresses MLL-rearranged leukemia. *Blood.*; 125(2):346-57, 2014.

Srimongkolpithak N, Sundriyal S, Li F, **Vedadi M**, Fuchter MJ. Identification of 2,4-diamino-6,7-dimethoxyquinoline derivatives as G9a inhibitors†Electronic supplementary information (ESI) available. See DOI: 10.1039/c4md00274a. *Medchemcomm.*; 5(12):1821-1828, 2014.

Yu W, Eram MS, Hajian T, Szykowska A, Burgess-Brown N, **Vedadi M**, Brown PJ. A scintillation proximity assay for histone demethylases. *Anal Biochem.*; 463:54-60, 2014.

Barsyte-Lovejoy D, Li F, Oudhoff MJ, Tatlock JH, Dong A, Zeng H, Wu H, Freeman SA, Schapira M, Senisterra GA, Kuznetsova E, Marcellus R, Allali-Hassani A, Kennedy S, Lambert JP, Couzens AL, Aman A, Gingras AC, Al-Awar R, Fish PV, Gerstenberger BS, Roberts L, Benn CL, Grimley RL, Braam MJ, Rossi FM, Sudol M, Brown PJ, Bunnage ME, Owen DR, Zaph C, **Vedadi M**, Arrowsmith CH. (R)-PFI-2 is a potent and selective inhibitor of SETD7 methyltransferase activity in cells. *Proc Natl Acad Sci U S A.*; 111(35):12853-8, 2014.

Ma A, Yu W, Li F, Bleich RM, Herold JM, Butler KV, Norris JL, Korboukh V, Tripathy A, Janzen WP, Arrowsmith CH, Frye SV, **Vedadi M**, Brown PJ, Jin J. Discovery of a selective, substrate-competitive inhibitor of the lysine methyltransferase SETD8. *J Med Chem.*; 57(15):6822-33, 2014.

Qin S, Liu Y, Tempel W, Eram MS, Bian C, Liu K, Senisterra G, Crombet L, **Vedadi M**, Min J. Structural basis for histone mimicry and hijacking of host proteins by influenza virus protein NS1. *Nat Commun.*; 5:3952, 2014.

Eram MS, Bustos SP, Lima-Fernandes E, Siarheyeva A, Senisterra G, Hajian T, Chau I, Duan S, Wu H, Dombrowski L, Schapira M, Arrowsmith CH, **Vedadi M**. Trimethylation of histone H3 lysine 36 by human methyltransferase PRDM9 protein. *J Biol Chem.*; 289(17):12177-88, 2014.

Allali-Hassani A, Kuznetsova E, Hajian T, Wu H, Dombrowski L, Li Y, Gräslund S, Arrowsmith CH, Schapira M, **Vedadi M**. A Basic Post-SET Extension of NSDs Is Essential for Nucleosome Binding In Vitro. *J Biomol Screen.*; 19(6):928-935, 2014. [Epub ahead of print].

Sweis RF, Pliushchev M, Brown PJ, Guo J, Li F, Maag D, Petros AM, Soni NB, Tse C, **Vedadi M**, Michaelides MR, Chiang GG, Pappano WN. Discovery and development of potent and selective inhibitors of histone methyltransferase g9a. *ACS Med Chem Lett.*; 5(2):205-9, 2014.

Konze KD, Pattenden SG, Liu F, Barsyte-Lovejoy D, Li F, Simon JM, Davis IJ, **Vedadi M**, Jin J. A Chemical Tool for In Vitro and In Vivo Precipitation of Lysine Methyltransferase G9a. *ChemMedChem.* 17.01, 2014.

**Verma S**

Vijayaraghavani R, **Verma S**, Gupta N, Saw J. Clinician Update: Pregnancy-Related Spontaneous Coronary Artery Dissection. *Circulation.*;130(21):1915-20, 2014.

Trop S, Marshall JC, Mazer D, Gupta M, Dumont DJ, Bourdeau A, **Verma S**. Perioperative cardiovascular system failure in South Asians undergoing cardiopulmonary bypass is associated with prolonged inflammation and increased Toll-like receptor signaling in inflammatory monocytes. *J Surg Res.* 187:43-52, 2014.

**Verma S**, Lovren F, Pan Y, Yanagawa B, Deb S, Karkhanis R, Quan A, Teoh H, Feder-Elituv R, Moussa F, Souza DSR, Fremes SE. Pedicled ‘No-Touch’ Saphenous Vein Graft Harvest Limits Vascular Smooth Muscle Cell Activation – The PATENT Saphenous Vein Graft Study. *Eur J Cardio-Thorac Surg.* 45(4):717-25, 2014.

Traister A, Li M, Aafaqi S, Lu M, Arab S, Radisic M, Gross G, Guido F, Sherret J, **Verma S**, Slorach C, Mertens L, Hui W, Roy A, Olguin PD, Hannigan G, Mayne JT, Coles JG. Integrin-linked kinase (ILK) mediates force transduction in cardiomyocytes by modulating ERCA2a/PLN function. *Nat Commun.*; 5:4533, 2014.

Lovren F, Pan Y, Quan A, Singh KK, Khan R, Gupta N, Brezden-Masley C, Teoh H, Wheatcroft MD, Al-Omran M and **Verma S**. BRCA1 shields vascular smooth muscle cells From oxidative stress. *J Thorac Cardiovasc Surg.* 147(6):1946-1955, 2014.

Fitchett DH, Gupta M, Farkouh ME, **Verma S**. Coronary Artery Revascularization in the Patient with Diabetes. *Circulation.*; 130(12):e104-6. 130(12):e104-6, 2014.

Garg V, Tsigotis DN, Dickson J, Dalamagas C, Latter DA, **Verma S**, Peterson MD. Direct Innominate Artery Cannulation for Selective Antegrade Cerebral Perfusion during Deep Hypothermic Circulatory Arrest in Aortic Surgery. *J Thoracic Cardiovasc Surg.*; 148(6):2920-4, 2014.

Singh KK, Yanagawa B, Quan A, Wang R, Garg A, Khan R, Pan Y, Wheatcroft MD, Lovren F, Teoh H, **Verma S**. Autophagy gene fingerprint in human ischemia and reperfusion. *J Thoracic Cardiovasc Surg.*; 147:1065-1072, 2014.

Bagai A, Chua D, Cohen EA, Saw J, **Verma S**, Vijayaraghavan R, Welsh R, Fitchett DH. Pharmacodynamic and Clinical Implications of Switching between P2Y<sub>12</sub> Receptor Antagonists: Considerations for practice. *Crit Pathways Cardiol.*; 13(4):156-8, 2014.

Fedak PWM, **Verma S**. Bicuspid aortopathy and the development of individualized resection strategies. *J Thoracic Cardiovasc Surg.*; 148(5):2080-1, 2014.

Mancini GBJ, Gosselin G, Chow B, Kostuk W, Stone J, Yvorchuk KJ, Abramson BL, Cartier R, Huckell V, Tardif J-C, Connelly K, Ducas J, Farkouh ME, Gupta M, Juneau M, O’Neill B, Raggi P, Teo K, **Verma S**, Zimmermann R. Canadian Cardiovascular Society Guideline for the diagnosis and Management of Stable Ischemic Heart Diseases. (Canada): Canadian Cardiovascular Society; 2014. *Can J Cardiol.* ; 30:837-49, 2014.



**Verma S, Siu SC.** Aortic Dilatation in Patients with Bicuspid Aortic Valve. *N Engl J Med.*; 370(20):1920-9, 2014.

### **Wallace JL**

Gemici B, Elsheikh W, Feitosa KB, Costa SK, Muscara MN, **Wallace JL.** H<sub>2</sub>S-releasing drugs: anti-inflammatory, cytoprotective and chemopreventative potential. *Nitric Oxide.*; 46:25-31, 2014.

Flannigan KL, Agbor TA, Motta JP, Ferraz JG, Wang R, Buret AG, **Wallace JL.** Proresolution effects of hydrogen sulfide during colitis are mediated through hypoxia-inducible factor-1 $\alpha$ . *FASEB J.*; 29(4):1591-602, 2014.

**Wallace JL,** Blackler RW, Chan MV, Da Silva GJ, Elsheikh W, Flannigan KL, Gamaniek I, Manko A, Wang L, Motta JP, Buret AG. Anti-inflammatory and cytoprotective actions of hydrogen sulfide: translation to therapeutics. *Antioxid Redox Signal.*; 22(5):398-410, 2014

Blackler RW, Motta JP, Manko A, Workentine M, Bercik P, Surette MG, **Wallace JL.** Hydrogen sulphide protects against NSAID-enteropathy through modulation of bile and the microbiota. *Br J Pharmacol.*; 172(4):992-1004, 2014.

Blackler RW, Gemici B, Manko A, **Wallace JL.** NSAID-gastroenteropathy: new aspects of pathogenesis and prevention. *Curr Opin Pharmacol.*; 19:11-6, 2014.

Flannigan KL, Agbor TA, Blackler RW, Kim JJ, Khan WI, Verdu EF, Ferraz JG, **Wallace JL.** Impaired hydrogen sulfide synthesis and IL-10 signaling underlie hyperhomocysteinemia-associated exacerbation of colitis. *Proc Natl Acad Sci U S A.*; 111(37):13559-64, 2014.

Elsheikh W, Blackler RW, Flannigan KL, **Wallace JL.** Enhanced chemopreventive effects of a hydrogen sulfide-releasing anti-inflammatory drug (ATB-346) in experimental colorectal cancer. *Nitric Oxide.*; 41:131-7, 2014.

**Wallace JL.** Exploiting endogenous anti-inflammatory pathways as a therapeutic approach to multiorgan inflammatory disease. *Am J Pathol.*; 184(8):2154-5, 2014.

Pálinkás Z, Furtmüller PG, Nagy A, Jakopitsch C, Pirker KF, Magierowski M, Jasnos K, **Wallace JL,** Obinger C, Nagy P. Interactions of hydrogen sulfide with myeloperoxidase. *Br J Pharmacol.*; 172(6):1516-32, 2014.

Campolo M, Esposito E, Ahmad A, Di Paola R, Paterniti I, Cordaro M, Bruschetta G, **Wallace JL,** Cuzzocrea S. Hydrogen sulfide-releasing cyclooxygenase inhibitor ATB-346 enhances motor function and reduces cortical lesion volume following traumatic brain injury in mice. *J Neuroinflammation.*; 11:196, 2014.

Fomenko I, Sklyarov A, Bondarchuk T, Biletska L, Panasyuk N, **Wallace JL.** Effects of conventional and hydrogen sulfide-releasing non-steroidal anti-inflammatory drugs in rats with stress-induced and epinephrine-induced gastric damage. *Stress.*; 17(6):528-37, 2014.

Syer SD, **Wallace JL**. Environmental and NSAID-enteropathy: dysbiosis as a common factor. *Curr Gastroenterol Rep.*; 16(3):377, 2014.

Zayachkivska O, Havryluk O, Hrycevyh N, Bula N, Grushka O, **Wallace JL**. Cytoprotective effects of hydrogen sulfide in novel rat models of non-erosive esophagitis. *PLoS One.*; 9(10):e110688, 2014.

### **Wells PG**

Miller-Pinsler L, Pinto DJ, **Wells PG**. Oxidative DNA damage in the in utero initiation of postnatal neurodevelopmental deficits by normal fetal and ethanol-enhanced oxidative stress in oxoguanine glycosylase 1 knockout mice. *Free Radic Biol Med.*; 78:23-9, 2014.

Miller-Pinsler L, **Wells PG**. Deficient DNA repair exacerbates ethanol-initiated DNA oxidation and embryopathies in ogg1 knockout mice: gender risk and protection by a free radical spin trapping agent. *Arch Toxicol.* 2014 Oct 30. [Epub ahead of print] .

Chan N, Ali M, McCallum GP, Kumareswaran R, Koritzinsky M, Wouters BG, **Wells PG**, Gallinger S, Bristow RG. Hypoxia provokes base excision repair changes and a repair-deficient, mutator phenotype in colorectal cancer cells. *Mol Cancer Res.*; 12(10):1407-15, 2014.

### **Wong AH**

Fang L, Zhang L, Wei W, Jin X, Wang P, **Tong Y**, Li J, Du JX, Wong J. (2014). A methylation-phosphorylation switch determines Sox2 stability and function in ESC maintenance or differentiation. *Mol Cell.* 55(4): 537-551, 2014.

Feng C, Liu Y, Wang G, Deng Z, Zhang Q, Wu W, **Tong Y**, Cheng C, Chen Z. Crystal structures of the human RNA demethylase Alkbh5 reveal basis for substrate recognition. *J Biol Chem.* 289(17):11571-11583, 2014.

**Tong Y**, Dong A, Xu X, Wernimont A. Salvage or recovery of failed targets by in situ proteolysis. Wayne F. Anderson Eds. *Methods in Molecular Biology.* (1140): 179-188, 2014. Springer New York

### **Young T**

Nascimento C, Kim HK, **Young LT**, Mendonça KM, Grinberg LT, Lafer B, Andreazza AC. Glutathione-mediated effects of lithium in decreasing protein oxidation induced by mitochondrial complex I dysfunction. *J Neural Transm (Vienna).* 122(6):741-6, 2014.

Andreazza AC, Gildengers A, Rajji TK, Zuzarte PM, Mulsant BH, **Young LT**. Oxidative stress in older patients with bipolar disorder. *Am J Geriatr Psychiatry.* 23(3):314-9, 2014.

Parikh SV, Hawke LD, Velyvis V, Zaretsky A, Beaulieu S, Patelis-Siotis I, MacQueen G, **Young LT**, Yatham LN, Cervantes P. Combined treatment: impact of optimal psychotherapy and medication in bipolar disorder. *Bipolar Disord.*; 17(1):86-96, 2014.

Duffy A, Horrocks J, Doucette S, Keown-Stoneman C, Grof P, Andreazza A, **Young LT**. Immunological and neurotrophic markers of risk status and illness development in high-risk youth: understanding the neurobiological underpinnings of bipolar disorder. *Int J Bipolar Disord.*; 2(1):29, 2014.

Scola G, Laliberte VL, Kim HK, Pinguelo A, Salvador M, **Young LT**, Andreazza AC. Vitis labrusca extract effects on cellular dynamics and redox modulations in a SH-SY5Y neuronal cell model: a similar role to lithium. *Neurochem Int.*; 79:12-9, 2014.

Scola G, Kim HK, **Young LT**, Salvador M, Andreazza AC. Lithium reduces the effects of rotenone-induced complex I dysfunction on DNA methylation and hydroxymethylation in rat cortical primary neurons. *Psychopharmacology (Berl.)*; 31(21):4189-98, 2014.

Brown NC, Andreazza AC, **Young LT**. An updated meta-analysis of oxidative stress markers in bipolar disorder. *Psychiatry Res.*; 218(1-2):61-8, 2014.

Andreazza AC, **Young LT**. The neurobiology of bipolar disorder: identifying targets for specific agents and synergies for combination treatment. *Int J Neuropsychopharmacol.*; 17(7):1039-52, 2014.

Kim HK, Andreazza AC, Yeung PY, Isaacs-Trepanier C, **Young LT**. Oxidation and nitration in dopaminergic areas of the prefrontal cortex from patients with bipolar disorder and schizophrenia. *J Psychiatry Neurosci.*; 39(4):276-85, 2014.

Huzayyin AA, Andreazza AC, Turecki G, Cruceanu C, Rouleau GA, Alda M, **Young LT**. Decreased global methylation in patients with bipolar disorder who respond to lithium. *Int J Neuropsychopharmacol.*; 17(4):561-9, 2014.

Versace A, Andreazza AC, **Young LT**, Fournier JC, Almeida JR, Stiffler RS, Lockovich JC, Aslam HA, Pollock MH, Park H, Nimgaonkar VL, Kupfer DJ, Phillips ML. Elevated serum measures of lipid peroxidation and abnormal prefrontal white matter in euthymic bipolar adults: toward peripheral biomarkers of bipolar disorder. *Mol Psychiatry.*; 19(2):200-8, 2014.

Hajek T, Bauer M, Simhandl C, Rybakowski J, O'Donovan C, Pfennig A, König B, Suwalska A, Yucel K, Uher R, **Young LT**, MacQueen G, Alda M. Neuroprotective effect of lithium on hippocampal volumes in bipolar disorder independent of long-term treatment response. *Psychol Med.*; 44(3):507-17, 2014.

### **Zack M**

Boileau I, Payer D, Chugani B, Lobo DS, Houle S, Wilson AA, Warsh J, Kish SJ, **Zack M**. In vivo evidence for greater amphetamine-induced dopamine release in pathological gambling: a

positron emission tomography study with [(11)C]-(+)-PHNO. *Mol Psychiatry.*; 19(12):1305-13, 2014.

**Zack M**, Featherstone RE, Mathewson S, Fletcher PJ. Chronic exposure to a gambling-like schedule of reward predictive stimuli can promote sensitization to amphetamine in rats. *Front Behav Neurosci.*; 8:36, 2014.

### **Zawertailo L**

**Zawertailo L**, Voci S, Selby P. Depression status as a predictor of quit success in a real-world effectiveness study of nicotine replacement therapy. *Psychiatry Res.*; 226(1):120-7, 2014.

Le Foll B, Guranda M, Wilson AA, Houle S, Rusjan PM, Wing VC, **Zawertailo L**, Busto U, Selby P, Brody AL, George TP, Boileau I. Elevation of dopamine induced by cigarette smoking: novel insights from a [11C]-+PHNO PET study in humans. *Neuropsychopharmacology.*; 39(2):415-24, 2014.

### **Zelner I**

Koren G, **Zelner I**, Nash K, Koren G. Foetal alcohol spectrum disorder: identifying the neurobehavioural phenotype and effective interventions. *Curr Opin Psychiatry.*; 27(2):98-104, 2014.

### **Ph.D. Theses – Pharmacology Dept., University of Toronto (2014)**

Al Maruf, Abdullah (2014). Evaluation of Drug-Induced Liver Injury in an In Vitro Oxidative Stress Inflammation System.

Ferguson, Charmaine (2014). The Effects of Ethanol and Nicotine on Hepatic and Brain CYP2 Family Enzymes in African Green Monkeys.

Jeffrey, Melanie (2014). Progesterone and Its Metabolites: Anticonvulsant and Behavioral Studies.

Lam, Jessica (2014). Risk Factors Associated with Opioid-Induced Toxicity: Ontogeny, Pharmacogenetics, and Drug Interactions.

MacPherson, Laura (2014). 2,3,7,8-tetrachlorodibenzo-p-dioxin-inducible poly(ADP-ribose) polymerase is a mono-ADP-ribosyltransferase and a ligand-induced repressor of AHR transactivation.

Metushi, Imir George (2014). Investigation of the Mechanism of Idiosyncratic Drug-Induced Liver Injury.

Miller, Lutfiya (2014). Oxidative Stress Mechanisms in Alcohol Developmental Toxicity.

Oh, Gabriel (2014). Epigenomic Studies of Twins and Brain Diseases.

Schwarz-Lam, Kyla (2014). The Effects of ROS and DNA Repair on Methylmercury-Initiated Neuron-developmental Deficits.

Wang, Shuang (2014). Mechanisms of 4-Aminobiphenyl-Induced Liver Carcinogenesis in the Mouse.

Wu, Alex Man Lai (2014). Variation in Nicotine and Nitrosamine Pharmacology Genes and Smoking-Associated Lung Cancer.

Zhu, Zixing Andy (2014). The Interaction Between Genetics and Tobacco Consumption in Light Smokers.

#### **M.Sc. Theses – Pharmacology Dept., University of Toronto (2014)**

Brown, Nicole (2014). Oxidative Stress in Bipolar Disorder: A Meta-Analysis of Oxidative Stress Markers and an Investigation of the Hippocampus.

Constantinof, Andrea (2014). Application of Epigenetic Techniques to Study Lactase Expression.

Claridge, Colin (2014). Overexpressing Gαs in Osteoblasts In Vitro and In Vivo: Effects on Basal and PTH-Stimulated Gene Expression.

Craig, Evelyn (2014). Nicotine Pharmacokinetics in Rats is Altered as a Function of Age in Early Adolescents and Adults.

Fang, Shenghao (2014). Gender as a Moderator of the Effects of D2; 1-D2 Dopamine Antagonists on Gambling and Amphetamine Reinforcement in Pathological Gamblers and Healthy.

Hunter, Sarah (2014). Induction of the Rat Hepatic Aryl Hydrocarbon Receptor Nuclear Translocator by Glucocorticoids.

Kosowan, Joel (2014). Screening of a Histone Methyltransferase Inhibitor in Animal Models of Psychiatric Illness.

Mouziri, Zakieh (2014). Assessment of Endothelial Function in Humans: Observations Concerning the Use of Low Flow Mediated Constriction and the Vascular Effects of Nebivolol.

O'Regan, Jordana (2014). Assessing the Safety of Cholinesterase Inhibitor Use in Patients with Moderate to Severe Alzheimer's Disease in a Long-Term Care Setting.

Piliguian, Mark (2014). Identification and Characterization of Novel CYP2A6 Variants in African American Slow Nicotine Metabolizers.

Pryslawsky, Yaroslaw (2014). The Effects of a Neutral Cannabinoid-1 Receptor Antagonist on Intravenous Nicotine Self Administration Behavior.

Santiago, Calvin (2014). Associations Between White Matter Microstructural Integrity and Cognition in Older Adults with Coronary Artery Disease: Diffusion Tensor Imaging Study.

Sayer, Gillian (2014). Vonk, Alex (2014). The Acute and Residual Effects of Cannabis on Driving and the Risk of Collision for People Who Drive After Using Alcohol and Drive After Using Cannabis. Applying to RCMP Forensic Testing Facility in Ottawa.

Yoon, Sung Hee (2014). The Effects of Bisphosphonates on the Development of Glucocorticoid-Induced Osteoporosis in a Mouse Model of Duchenne Muscular Dystrophy.

Zou, Lily (2014). Attenuation of Cardiac Fibrillation Vulnerability by n-3 Polyunsaturated Fatty Acids in a Rat Model of Cardiomyopathy.