

BERNARD, DANIEL

- Brown JL, Xie J, Sones J, Angulo C, Boehm U, Miller A, Toufaily C, Wang Y, Bernard DJ, Roberson MS (2018) Sex- and age-specific impact of ERK loss within the pituitary gonadotrope in mice. *Endocrinology* 159(3):1264-1276.
- Li Y, Schang G, Wang Y, Zhou X, Boyer A, Deng CX, Treier M, Boehm U, Boerboom D, Bernard DJ (2018) Conditional deletion of FOXL2 and SMAD4 in gonadotropes of adult mice causes isolated FSH deficiency. *Endocrinology* 159(7): 2641-2655.
- Roche E, McGowan A, Koulouri O, Turgeon M-O, Nicholas AK, Heffernan E, El-Khairi R, Abid N, Lyons G, Persani L, Dattani MT, Bernard DJ, Schoenmakers N (2018) A novel IGSF1 mutation in a large Irish kindred highlights the need for familial screening in the IGSF1 deficiency syndrome. *Clinical Endocrinology* 89(6):813-823.
- Ruf-Zamojski F, Ge Y, Nair V, Zamojski M, Pincas H, Toufaily C, Tome-Garcia J, Stoeckius M, Stephenson W, Smith G, Bernard DJ, Tsankova NM, Hartmann BM, Fribourg M, Smibert P, Swerdlow H, Turgeon JL, Sealfon SC (2018) Single-cell stabilization method identifies gonadotrope transcriptional dynamics and pituitary cell type heterogeneity. *Nucleic Acids Research* 46(21):11370-11380.
- Li Y, Fortin J, Ongaro L, Zhou X, Boehm U, Schneyer A, Bernard DJ*, Lin HY* (2018) Betaglycan (TGFBR3) functions as an inhibin A, but not inhibin B, co-receptor in pituitary gonadotrope cells in mice. *Endocrinology* 159(12): 4077-4091. *co-corresponding authors.
- Bernard DJ, Schang G, Li Y, Ongaro L, Thompson TB (2018) Activins and inhibins in female reproduction. *Encyclopedia of Reproduction*, 2nd Edition, Vol. 2, 202-210. <https://doi.org/10.1016/B978-0-12-801238-3.64643-3>
- Bernard DJ, Brûlé E, Smith CL, Joustra SD, Wit JM (2018) From consternation to revelation: Discovery of a role for IGSF1 in pituitary control of thyroid function. *Journal of the Endocrine Society* 2(3): 220-231.
- Schang G, Toufaily C, Bernard DJ (2018) HDAC inhibitors impair FSH expression in murine gonadotrope cells. *Journal of Molecular Endocrinology*, Nov 1. pii: JME-18-0145.R2. doi: 10.1530/JME-18-0145. [Epub ahead of print].
- Bernard DJ, Li Y, Toufaily C, Schang G (2018) Regulation of gonadotropins. *Oxford Research Encyclopedia of Neuroscience*, in press.
- Ongaro L, Schang G, Ho CC, Zhou X, Bernard DJ (2019) TGF superfamily regulation of follicle-stimulating hormone synthesis by gonadotrope cells: Is there a role for bone morphogenetic proteins? *Endocrinology*, in revision (initial submission Dec. 2018)

BOWIE, DEREK

Willadsen M, Best LM, Wöhr M, Clarke PB Effects of anxiogenic drugs on the emission of 22-kHz and 50-kHz ultrasonic vocalizations in adult rats. *Psychopharmacology* online June 2018
<https://doi.org/10.1007/s00213-018-4942-4>

CUELLO, CLAUDIO

*Foret MK, *Do Carmo S, Lincoln R, Greene LE, Zhang W, Cuello AC, Cosa G. (2018) Effect of antioxidant supplements on lipid peroxidation levels in primary cortical neuron cultures. *Free Radic Biol Med.* 130:471-477. IF 6.02

*Welikovitch L

IF 5.076

Qi Y, Klyubin I, Cuello AC, Rowan MJ (2018) NLRP3-dependent synaptic plasticity deficit in an Alzheimer's disease amyloidosis model in vivo. *Neurobiol Dis.* 114:24-30. IF 5.227

Hempel H, Vergallo A, Aguilar LF, Benda N, Broich K, Cuello AC, Cummings J, Dubois B, Federoff HJ, Fiandaca M, Genthon R, Haberkamp M, Karran E, Mapstone M, Perry G, Schneider LS, Welikovitch LA, Woodcock J, Baldacci F, Lista S.(2018) Precision pharmacology for Alzheimer's disease Alzheimer Precision Medicine Initiative (APMI) *Pharmacol Res.* 2018 Feb 16. [Epub ahead of print] Review. IF 4.897

Hall H, Iulita MF, Gubert P, Flores Aguilar L, Ducatzenzeiler A, Fisher A, Cuello AC (2018) AF710B, an M1/sigma-1 receptor agonist with long-lasting disease-modifying properties in a transgenic rat model of Alzheimer's disease. *Alzheimers Dement.* 14(6):811-823. IF 12.74

HALES, BARBARA

Published:

Albert O, Nardelli TC, Hales BF, Robaire B. Identifying Greener and Safer Plasticizers: a 4-Step Approach. *Toxicol Sci.* 2018 161(2):266-275. doi: 10.1093/toxsci/kfx156.

El Husseini N, Hales BF. The Roles of P53 and its Family Proteins, P63 and P73, in the DNA Damage Stress Response in Organogenesis Stage Mouse Embryos. *Toxicol Sci.* 2018 16(2):439-449. doi: 10.1093/toxsci/kfx270.

Albert O, Nardelli TC, Lalancette C, Hales BF, Robaire B. Effects of in utero and lactational exposure to new generation green plasticizers on adult male rats: a comparative study with di(2-ethylhexyl) phthalate. *Toxicol Sci* 2018. 164(1):129-141. doi: 10.1093/toxsci/kfy072.

Albert O, Huang JY, Aleksa K, Hales BF, Goodyer CG, Robaire B, Chevrier J, Chan P. Exposure to polybrominated diphenyl ethers and phthalates in healthy men living in the greater Montreal area: a study of hormonal balance and semen quality. *Environ Int.* 2018 11.exyny

Yan H, Hales BF. Effects of organophosphate ester flame retardants on endochondral ossification in ex vivo murine limb bud cultures. *Toxicol Sci.* 2018 Dec 18. doi: 10.1093/toxsci/kfy301.

Non-peer-reviewed Publications:

Downey AM, Robaire B, Hales BF. Paternally Mediated Developmental Toxicity. In: McQueen CA, ed. *Comprehensive Toxicology*, 3rd ed. Oxford: Elsevier, 2018. Vol. 5, pp. 100-117.

Hales BF, Robaire B. The Male Germ Cell as a Target for Toxicants. In: McQueen CA, ed. *Comprehensive Toxicology*, 3rd ed. Oxford: Elsevier, 2018. Vol 4, pp. 82-95.

Robaire B, Hales BF. What are the possible consequences of pre-conception male germ cell exposures on pregnancy outcome? In: Hales B, Scialli A, Tassinari M, eds. *Teratology Primer*, 3rd ed. Teratology Society. 2018. <https://www.teratology.org/primer/Progeny-Outcome.asp>

Hales BF, Kavlock RJ. Can Chemicals in the Environment that affect Hormone Function Disrupt Development? In: Hales B, Scialli A, Tassinari M, eds. *Teratology Primer*, 3rd ed. Teratology Society. 2018. <https://www.teratology.org/primer/hormone-function.asp>

Paradis FH, Yan H, Huang C, Hales BF. The murine limb bud as an in vitro teratogenicity test system. In: *Developmental Toxicology: Methods and Protocols*, Methods in Molecular Biology, vol. 889, Harris C and Hansen JM (Eds.). pp. 197-

Eguchi, S., Hébert, T.E., Pflieger, K.D.G., Thomas, W.G. (2018) BRET-Based Assay to Monitor EGFR Transactivation by the AT1R Reveals G Protein-Independent Activation and AT1R-EGFR Complexes *Biochem Pharmacol.* 158:232-242

Billard, E., Hébert, T.E., and Chatenet, D. (2018) Discovery of new allosteric modulators of the urotensinergic system through substitution of the URP phenylalanine residue. *J. Med. Chem.* 61:8707-8716

Namkung, Y., LeGouill, C., Kumar, S., Yubo, C., Teixeira, L.B., Lukashova, V., Simões, S.C., Longpré, J.-M., Devost, D., Hébert, T.E., Pineyro, G., Leduc, R., Costa-Neto, C.M., Bouvier, M. and Laporte, S.A. (2018) Functional selectivity profiling of the angiotensin II type 1 receptor using pathway-wide BRET signaling sensors (in press publication *Science Signaling* 11, issue 559, eaat1631 DOI: 10.1126/scisignal.aat1631

Bourque, K., Jones-Tabah, J., Mnasri, N., Martin, R.M. and Hébert, T.E. (2018) Combining optical approaches with human inducible pluripotent stem cells in GPCR drug screening and development *Biomolecules* 8:180; doi:10.3390/biom8040180

In press or accepted:

Martin, R., Hébert, T.E. and Tanny, J.C. (2018) Therapeutic targeting of the general RNA polymerase II transcription machinery. (in press, Chapter in "Epigenetic Inhibitors", Eric Campeau, editor, Wiley Press)

Martin, R.M., Bouzza, C. and Hébert, T.E. (2018) Organellar G $\beta\gamma$ signalling- GPCR signalling beyond the cell surface (in press, Chapter in "Structure, Function, and Drug Discovery in G Protein-Coupled Receptors", Paul Park and Beat Jastrzebska, editors, Elsevier Press)

Fillion, D., Devost, D. and Hébert, T.E. (2018) Measuring recruitment of β -arrestin to G protein-coupled heterodimers using bioluminescence resonance energy transfer. (in press *Meth. Mol. Biol.*)

Bourque, K., Devost, D., Inoue, A. and Hébert, T.E. (2018) Combining conformational profiling of GPCRs with CRISPR/Cas9 gene editing approaches (accepted for publication *Meth. Mol. Biol.*)

Powlowski, P., Bourque, K., Jones-Tabah, J., Sleno, R., Devost, D. and Hébert, T. E. (2018) Conformational profiling of the 5-HT_{2A} receptor using FIAsh-BRET (in press *NeuroMethods*)

Merlino, F., Billard, E., Yousif, A.M., Di Maro, S., Abate, L., Brancaccio, D., Carotenuto, A., d'Emmanuele di Villa Bianca, R., Santicoli, P., Marinelli, L., Hébert, T.E., Lubell, W.D., Chatenet, D., and Grieco, P. (2018) Functional Selectivity Revealed by N-Methylation Scanning of Human Urotensin II and Related Peptide (accepted for publication *J. Med. Chem.*)

Sleno, R. and Hébert, T.E. (2018) Shaky ground- the nature of metastable GPCR signalling complexes (in press *Neuropharmacol.*)

Submitted articles:

Khan, S.M., Martin, R.D., Bouazza, C., Jones-Tabaj, J., Zhang, A., MacKinnon, S., Trieu, P., Gora, S., Clarke, P.B.S, Tanny, J.C., and Hébert, T.E. (2018) A novel interaction between G $\beta\gamma$ and RNA polymerase II regulates cardiac fibrosis (in preparation for *Cell* submitted to bioRxiv-

<https://www.biorxiv.org/content/early/2018/09/13/415935>)

Poujol de Molliens, M., Jamadagni, P., Létour, M., Devost, D., Hébert, T.E., Patten, S.A., Fournier, A., and Chatenet D. (2018) Design of membrane-tethering peptides derived from the pituitary adenylate cyclase-activating polypeptide receptor 1 and characterization of their neuroprotective properties in neurodegenerative disease models. (submitted to Neurotherapeutics)

Hoang, T.A., Nassour, H., Martin, R.M., Billard, E., Létour, M., Novellino, E., Caratenuto, A., Tanny, J.C., Fournier, A., Hébert, T.E. and Chatenet D. (2018) Membrane-tethered peptides derived from intracellular loops 2 and 3 of the urotensin II receptor act as allosteric biased agonists. (submitted to J. Biol. Chem.)

Omri, S., Tahiri, H., Chadwick, W.P., Desjarlais, M., Lahaie, I., Loïsele, S.-E., Lodygensky, G., Hébert, T.E., Ong, H., and Chemtob, S. (2018) Propranolol attenuates pro-angiogenic activity of macrophages: implications in choroidal neovascularization (in revision, Invest. Ophthalmol, Vis. Sci.)

Fillion, D., Devost, D., Sleno, R., Inoue, A. and Hébert, T.E. (2018) Asymmetric Recruitment of - Arrestin1/2 by the Angiotensin II Type I and Prostaglandin F₂ Receptor Dimer (submitted to Frontiers in Endocrinology)

MAYSINGER, DUSICA

Moquin A, Ji J, Neibert K, Winnik FM, Maysinger D. Encapsulation and Delivery of Neutrophilic Proteins and Hydrophobic Agents Using PMOXA-PDMS-PMOXA Triblock Polymersomes. ACS Omega. 2018 Oct 31;3(10):13882-13893. doi: 10.1021/acsomega.8b02311. Epub 2018 Oct 23. PubMed PMID: 30411053; PubMed Central PMCID: PMC6217674.

Zhang I, Beus M, Stochaj U, Le PU, Zorc B, Raji Z, Petrecca K, Maysinger D. Inhibition of glioblastoma cell proliferation, invasion, and mechanism of action of a novel hydroxamic acid hybrid molecule. Cell Death Discov. 2018 Sep 26;4:41. doi: 10.1038/s41420-018-0103-0. eCollection 2018. PubMed PMID: 30302275; PubMed Central PMCID: PMC6158288.

Beus M, Raji Z, Maysinger D, Mlinari Z, Antunovi M, Marijanovi I, Fontinha

G. Dendritic Polyglycerol Sulfates in the Prevention of Synaptic Loss and Mechanism of Action on Glia. ACS Chem Neurosci. 2018 Feb 21;9(2):260-271. doi: 10.1021/acscchemneuro.7b00301. Epub 2017 Nov 10. PubMed PMID: 29078046

In press, accepted in 2018

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MCKINNEY, ANNE

Published:

Jeff Ji, Phil KY Chang*, Rodolphe Antonine, Julia Luo*, R. Anne McKinney, Dusica Maysinger Impact of gold nanostructures on neuroglia and synaptic remodeling in organotypic cultures *Nanotoxicology* In press

Ilie A, Gao AYL*, Boucher A, Park J, Berghuis AM, Hoffer MJV, Hilhorst-Hofstee Y, McKinney RA, Orłowski J. A potential gain-of-function variant of SLC9A6 leads to endosomal alkalinization and neuronal atrophy associated with Christianson Syndrome. *Neurobiol Dis.* 2019 Jan;121:187-204

Glasgow, S. D., Beamish, I. V., Labrecque, S., Wong, E., Trigiani, L. J., Gibon, J., Han, D., Guido, F*, Hamel, E., McKinney, R. A., de Koninck, P., Séguéla, P., Ruthazer, E. S., & Kennedy, T. E. Activity-Dependent Netrin-1 Secretion Drives Synaptic Insertion of GluA1-Containing AMPA Receptors in the Hippocampus. *Cell Rep.* 2018 Oct 2;25(1):168-182

Hacohen-Kleiman G, Sragovich S, Karmon G, Gao AYL*, Grigg I, Pasmanik-Chor M, Le A*, Korenková V, McKinney RA, Gozes I. Activity-dependent neuroprotective protein deficiency models synaptic and developmental phenotypes of autism-like syndrome. *J Clin Invest.* 2018 Nov 1;128(11):4956-4969

Visou Ady, Brenda Toscano Márquez, Moushumi Nath, Philip K. Chang*, Jeanette Hui, François Charron* , Roxanne Larivière, Bernard Brais, R. Anne McKinney#, and Alanna J. Watt# (# joint senior) Altered Synaptic and Intrinsic properties of cerebellar Purkinje cells in a mouse model of ARSACS *J Physiology (Lond)* 2018 Sep;596(17):4253-4267

Non-peer-reviewed publications:

McKinney R A, impairments and therapies for Christianson syndrome: X-linked neurological disorder HBP CURRICULUM WORKSHOP SERIES NEW HORIZONS IN BRAIN MEDICINE: FROM RESEARCH TO CLINICS Kalkscheune Berlin, Germany 4-6 July 2018

Gao, AY, Ilie, A, Orłowski, J, McKinney, RA (2018). Excessive lysosomal degradation induced by the Christianson Syndrome mutation NHE6 287ES288 impairs AMPA receptor trafficking and structural plasticity in hippocampal neurons. Presented at the 11th FENS Forum of Neuroscience, Berlin, Germany. 17th to 11th July 2018 international conference.

Glasgow, S. D., Beamish, I. V., Labrecque, S., Wong, E., Trigiani, L. J., Gibon, J., Han, D., Guido, F*, Hamel, E., McKinney, R. A., de Koninck, P., Séguéla, P., Ruthazer, E. S., & Kennedy, T. E. Activity-dependent netrin-1 secretion drives synaptic insertion of GluA1-containing AMPARs in the adult hippocampus. Presented at the 11th FENS Forum of Neuroscience, Berlin, Germany. 17th to 11th July 2018 international conference

Gao, AY, Masson, LC, James, T, McKinney, RA (2018). Downregulation of molecules mediating inhibitory neurotransmission in a NHE6 knock-out mouse model of Christianson Syndrome. Presented at the 48th Annual Society for Neuroscience meeting, San Diego, CA. Oct 2018 International conference.

Roxanne Larivière¹, Nicolas Sgarioto¹, Brenda Toscano Márquez², Rébecca Gaudet¹, Karin Choquet³, R. Anne McKinney⁴, Alanna J. Watt², Bernard Brais¹ Sacs
R272C homozygous mice develop spas6c ataxia of
Charlevoix-Saguenay American Society of Human genetics 2018 Oct 16-20th San Diego

MULTHAUP, GERHARD

Maysinger D, Ji J, Moquin A, Hossain S, Hancock MA, Zhang I, Chang PKY, Rigby M, Anthonisen M, Grütter P, Breitner J, McKinney RA, Reimann S, Haag R, Multhaup G. Dendritic Polyglycerol Sulfates in

MÜNTER, LISA

Recinto SJ*, Paschkowsky S*, Munter LM (2018). An alternative processing pathway of APP reveals two distinct cleavage modes for rhomboid protease RHBDL4. *Biological Chemistry*. PMID: 30171808

Paschkowsky S*, Recinto SJ*, Young JC, Bondar AN, Munter LM (2018). Membrane cholesterol as regulator of human rhomboid protease RHBDL4. *Journal of Biological Chemistry (JBC)*. PMID: 30143535.

Paschkowsky S*, Hsiao JM*, Young YC, Munter LM (2018). The Discovery of Proteases and Intramembrane Proteolysis, *Biochemistry and Cell Biology*. PMID: 30102867, Review

Luu L, Ciccotosto GD, Vella LJ, Cheng L, Roisman LC, Multhaup G, Hill AF, Munter LM, Cappai R. (2018). Amyloid Precursor Protein Dimerisation Reduces Neurite Outgrowth. *J Molecular Neurobiology*. PMID: 29675574.

Girouard H, Munter LM (2018). The Many Faces of Vascular Cognitive Impairment. *J Neurochem*. March, 144(5):509-512. PMID: 29430652. Editorial

SUMBITTED:

Oestereich F*, Kranjec EA, Yang E, Chaurand P, Munter LM. The Cholesteryl Ester Transfer Protein (CETP) raises Cholesterol Levels in the Brain and 8c7M

RIBEIRO-DA-SILVA, ALFREDO

Noradrenergic fiber sprouting and altered transduction in neuropathic prefrontal cortex.

ROBAIRE, BERNARD

Albert O, Nardelli TC, Hales BF, Robaire B. (2018) Identifying Greener and Safer Plasticizers: A 4-Step Approach. *Toxicol Sci.* 161:266-275.

*Albert O, Nardelli TC, Lalancette C, Hales BF, Robaire B. (2018) Effects of In Utero and Lactational Exposure to New Generation Green Plasticizers on Adult Male Rats: A Comparative Study With Di(2-Ethylhexyl) Phthalate. *Toxicol Sci.* 164:129-141.

*Albert O, Nardelli TC, Hales B, Robaire B. (2018) Response to letter from Rainer Otter regarding Albert O. et al. (2018). Identifying Greener and Safer Plasticizers: a Four-Step Approach. *Toxicol Sci.* 164:129-141

*Albert O, *Huang JY, Aleksa K, Hales BF, Goodyer CG, Robaire B, Chevrier J, Chan P. Exposure to polybrominated diphenyl ethers and phthalates in healthy men living in the greater Montreal area: a study of hormonal balance and semen quality. *Environ Int.* 2018 116:165-175.

Non-peer-reviewed publications

Hales BF, Robaire B. (2018) The Male Germ Cell as a Target for Toxicants. In: *Comprehensive Toxicology*, 3rd edition, (McQueen CA, ed.) Reproductive and Endocrine Toxicology, (Johnson K, ed.) Elsevier, Oxford, UK. Vol. 4, pp. 82-95.

*Downey AM, Robaire B, Hales BF. (2018) Paternally Mediated Developmental Toxicity. In: *Comprehensive Toxicology*, 3rd edition, (McQueen CA, ed.) Developmental Toxicology, (Dolinoy DC, ed.) Elsevier, Oxford. UK. Vol. 5, pp. 100-113.

Robaire B, Hales BF. What are the possible consequences of pre-conception male germ cell exposures on pregnancy outcome? In: Hales B, Scialli A, Tassinari M, eds. *Teratology Primer*, 3rd ed. Teratology Society. 2018. <https://www.teratology.org/primer/Progeny-Outcome.asp>

*Albert O, Robaire B. Sperm Evaluation Using the Comet Assay. In: *Intracytoplasmic Sperm Injection Indications, Techniques and Applications* (Palermo GD, Sills ES, eds) New York, Springer, in press.

Robaire B., *Noblanc A, *Fice H. (2018) Aging and Sperm Chromatin Quality. In: *Human Reproductive and Prenatal Genetics*, 1st Ed. (Leung PCK, Qiao J, eds.) Elsevier Science Publishing Co Inc. San Diego, USA.

*Noblanc A, Robaire B. (2018) Male Reproductive Senescence. In: *The Encyclopedia of Reproduction* 2nd Ed. (Jégou B, Skinner MK eds.) Elsevier Science Publishing Co Inc. San Diego, USA.

Chan PT, Robaire B. (2018) Male Onco-infertility. In: *The Encyclopedia of Endocrine Diseases* 2nd Ed. (Huhtaniemi I, Martini L, eds.) Elsevier Science Publishing Co Inc. San Diego, USA.

*Selvaratnam J, *Fice H, *Noblanc A, Robaire B. (2018) Effects of Aging on Sperm Chromatin. Human Reproductive and Prenatal Genetics, 1st Ed. (Leung PCK, Qiao J, eds.) Elsevier, Academic Press, pp. 85

Miao Z, Mao F, Liang J, Szyf M, Wang Y, Sun ZS. Anxiety-Related Behaviours Associated with microRNA-206-3p and BDNF Expression in Pregnant Female Mice Following Psychological Social Stress. *Mol Neurobiol*. 2018 Feb;55(2):1097-1111. doi: 10.1007/s12035-016-0378-1. Epub 2017 Jan 14. PubMed PMID: 28092086.

TANNY, JASON

Published:

Parua, P., G.T. Booth, M. Sansó, J.C. Tanny, J.T. Lis and R.P. Fisher (2018). A Cdk9-PP1 switch regulates the transition from elongation to termination by RNA polymerase II. *Nature* 558:460-464

Martin, R., Y. Sun, K. Bourque, N. Audet, J. C. Tanny*, and Terence E. Hébert* (2018). Receptor- and cellular compartment-specific activation of the cAMP/PKA pathway by β_1 -adrenergic and ETA endothelin receptors. *Cell Signal*. 44:43-50 (*corresponding authors)

Submitted:

Sansó, M., D. Pinto, P. Svensson, V. Pagé, P. Parua, D. Bitton, J. Mbogning, P. Garcia, E. Hidalgo, F. Robert, J. Bahler, J.C. Tanny*, and R.P. Fisher* (2018). Cdk9, Spt5 and histone H2B mono-ubiquitylation cooperate to ensure antisense suppression by the Clr6-CII/Rpd3S HDAC complex. *bioRxiv* 240135, <https://doi.org/10.1101/240135> (*corresponding authors)(submitted to *Nucleic Acids Res.*; see attached letter)

Hoang, T.A., H. Nassour, R. Martin, E. Billard, M. Letourneau, E. Novellino, A. Carotenuto, J. Tanny, A. Fournier, T. Hébert, and D. Chatenet. Membrane-tethered peptides derived from intracellular loops 2 and 3 of the urotensin II receptor act as allosteric biased agonists. (submitted to *J. Biol Chem*; see attached letter)

Non-peer-reviewed publications

Khan, S.M., R. D. Martin, C. Bouazza, J. Jones-Tabah, A. Zhang, S. MacKinnon, P. Trieu, S. Gora, P.B.S. Clarke, J.C. Tanny*, T.E. Hebert* (2018). A novel interaction between G and RNA polymerase II regulates cardiac fibrosis. *bioRxiv* 415935; doi: <https://doi.org/10.1101/415935>.

Accepted :

Martin, R., T. E. Hébert*, J. C. Tanny* (2018). Therapeutic targeting of the general RNA polymerase II transcription machinery. In *Epigenetic Inhibitors*, Wiley and Sons (see attached letter).

TRASLER, JACQUETTA

Aarabi M, Christensen KE, **Chan D, Leclerc D, **Landry M, *Ly L, Rozen R, and Trasler J. Testicular MTHFR deficiency may explain sperm DNA hypomethylation associated with high dose folic acid supplementation. *Hum Mol Genet* 27(7):1123-1135, 2018.

Choufani S, Turinsky AL, Melamed N, Greenblatt E, Brudno M, Bérard A, Fraser WD, Weksberg R, Trasler J, Monnier P, 3D Study Group. Impact of assisted reproduction, infertility, sex and paternal factors on the placental DNA methylome. *Hum Mol Genet* 28(3):372-385. Epub ahead of print 19 September 2018; doi:10.1093/hmg/ddy321 (J Trasler is corresponding author).

Rahimi S, **Martel J, *Karahan G, *Angle C, Behan NA, **Chan D, MacFarlane AJ, Trasler J. Moderate maternal folic acid supplementation ameliorates adverse embryonic and epigenetic outcomes associated with assisted reproduction in a mouse model. *Hum Reprod*, in press.

Chan D, Shao X, *Dumargne M-C, *Aarabi M, Simon M-M, Kwan T, Bailey JL, Robaire B, Kimmins S, San Gabriel MC, Zini A, Librach C, Moskovtsev S, Grundberg E, Bourque G, Pastinen T and Trasler JM. Discovery and capture of novel dynamic DNA methylation in human sperm with preferential links to altered folate metabolism. *Env Health Perspect*, in review.

Gorgui J, Sheehy O, Trasler J, Fraser W, Bérard A. Medically assisted reproduction and the risk of preterm birth. *CMAJ*, in review.

Monnier P, Sheehy O, Fraser W, Bissonnette F, Tan SL, Trasler JM, Bérard A. Who uses ovarian stimulation alone? Results from the TWINPREG Study. *Hum Repro Open*, submitted.

TREMPE, JEAN-FRANÇOIS

Published:

Sauvé, V*; Sung, G*; Soya, N; Kozlov, G; Blaimschein, N; Miotto, LS; Trempe, J-F#; Lukacs, GL; Gehring, K# (2018). Mechanism of parkin activation by phosphorylation. *Nature Structural and Molecular Biology*, 25: 623-630. doi: 10.1038/s41594-018-0088-7. PMID 29967542

Ménade, M*; Kozlov, G*; Trempe, J-F*; Pande, H; Shenker, S; Wickremasinghe, S; Dicaire, M-J; Li, X; Brais, B; McPherson, PS; Gehring, K# (2018). Structures of Ubl and Hsp90-like domains of saccin provide insight into pathological mutations. *Journal of Biological Chemistry*, 293: 12832-42. doi: 10.1074/jbc.RA118.003939. PMID 29945973

Ruskey, JA; Zhou, S; Santiago, R; Franche, LA; Alam, A; Roncière, L; Spiegelman, D; Fon, EA; Trempe, J-F; Kalia, LV; Postuma, RB; Dupre, N; Rivard, GE; Assouline, S; Amato, D; Gan-Or, Z# (2018). The GBA p.Trp378Gly mutation is a probable French-Canadian founder mutation causing Gaucher disease and synucleinopathies. *Clinical Genetics*, 94:339-345. doi: 10.1111/cge.13405. PMID 29920646

McLelland, G-L; Yi, W; Dorval, G; Chen, CX; Lauinger, ND; Valimehr, S; Rakovic, A; Rouiller, I; Durcan, TM; Trempe, J-F; Fon, EA# (2018). Mfn2 ubiquitination by PINK1/parkin gates the p97-dependent release of ER from mitochondria to drive mitophagy. *eLife*, 7:e32866. doi: 10.7554/eLife.32866. PMID 29676259

Rasool, S; Soya, N*; Truong, L*; Croteau, N; Lukacs, G; Trempe, J-F# (2018). PINK1 autophosphorylation is required for ubiquitin recognition. *EMBO Reports*, 19: e44981. PMID 29475881

Trempe, J-F#; Gehring, K# (2018). Small-angle X-ray scattering for the study of proteins in the ubiquitin pathway. In: Mayor & Kleiger (eds) *The Ubiquitin Proteasome System, Methods in Molecular Biology*. 1844: 197-208. doi: 10.1007/978-1-4939-8706-1_13. PMID 30242711

Rasool, S; Trempe, J-F# (2018). New insights into the structure of PINK1 and the mechanism of ubiquitin phosphorylation. *Critical Reviews in Biochemistry and Molecular Biology*, 21: 1-20. doi: 10.1080/10409238.2018.1491525. PMID 30238821

In press

Laughlin, TG; Bayne, A; Trempe, J-F; Savage DF; Davies KM#. Structure of NDH, the complex I-like molecule of oxygenic photosynthesis. *Nature*, accepted (21-Dec-2018). Manuscript 2018-09-13195A.

Submitted:

Alacalay, RN*; Mallett, V*; Vanderperre, B*; Tavassoly, O; Dauvilliers, Y; Leblond, CS;
Ambalavanan, A; Laurent, SB; Spiegelman, D; Dionne-Laporte, A; Liong, C; Levy, OA; Fahn, S;
Waters, C; Kuo, SH; Chung, WK; Ford, B; Marder, KS; Kang, UJ; Wolf, P; Oliva, P; Zhang, XK;
Clark, LN; Langlois, M; Dion, PA; Fon, EA; Trempe, J-F; Dupré, N; Rouleau, GA; Gan-Or, Z#.
SMPD1 mutations, activity and -