

Curriculum vitae

Jan Alexander Mennigen

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Division of Pharmacology and Toxicology
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PERSONAL INFORMATION:

Languages:

- English (fluent)
- French (fluent)
- German (fluent, mother tongue)

Citizenship:

- German Citizen
- Canadian Permanent Resident through the Opportunities Ontario Program for international PhD graduates from Ontario Universities (active since 03/05/2014)
- United States H1B Visa (active since 03/17/2014)

EDUCATION:

- **2014-current**
University of Texas at Austin, United States
Postdoctoral Fellow
Project: Developmental and transgenerational effects of endocrine disrupting chemicals on the metabolic phenotype in the SD rat.
Advisors: Dr. Andrea Gore and Dr. David Crews
- **2011-2013**
Institut National de la Recherche Agronomique (INRA), France
Marie Curie Postdoctoral Fellow
*Project: Nutritional regulation and metabolic function of hepatic microRNAs in rainbow trout, *Oncorhynchus mykiss*.*
Advisor: Dr. Sandrine Skiba-Cassy
- **2006-2011**
University of Ottawa, Canada
PhD in Biology
*PhD Thesis: Serotonin in the neuroendocrine brain of the goldfish, *Carassius auratus*: Pathways and potential disruption by SSRI pharmaceuticals.*
Supervisors: Dr. Vance Trudeau and Dr. Tom Moon

- **2005-2006**
Universität Stuttgart, Germany
Diploma in Biology (German MSc equivalent)
MSc Thesis: Fluoxetine disrupts the reproductive axis of female goldfish, Carassius auratus.
Supervisor: Dr. Franziska Wollnik
- **2004-2005**
Student exchange at the University of Ottawa, Canada
Supervisor: Dr. Vance Trudeau
- **2000-2004**
Universität Stuttgart, Germany
Prediploma in Biology (German BSc equivalent)
Honours thesis: Development and optimization of an ELISA-based detection assay for designer cytokines in mouse cancer models.
Supervisor: Dr. Klaus Pfizenmaier

ADDITIONAL EMPLOYMENT/VOLUNTEERING EXPERIENCE:

- INRA Association pour le Développement des Activités Sociales (**2011-2013**)
- VP Communications, Biology Graduate Student Association, University of Ottawa (**2007-2008**).
- Internship Environment Canada (CWS) in Dr. Sean Kennedy's lab, Ottawa, ON (**2005**).
Project: Development of a real-time RT-PCR-based assay to determine herring gull age based on telomere length.
- Let's Talk Science/Parlons Sciences (LTS) volunteer, Ottawa, ON (**2004-2005**).
- AGDW refugee teaching volunteer, Stuttgart, Germany (**2003-2004**).

TEACHING EXPERIENCE:

Classroom teaching experience:

Université de Pau et des Pays de l'Adour Bayonne, AQ, France - *Teaching Assistantship, lab demonstrator (2012)*

- TP Biochimie L2 (Biochemistry), 2nd year course (Dr. Salvado).

University of Ottawa, ON, Canada – *Teaching Assistantship, lab demonstrator (2006-2010)*

- BIO 1130 Introduction to Organismal Biology, 1st year course (Dr. Avaron).
- BIO 1140 Introduction to Cell Biology, 1st year course (Dr. Avaron).
- BIO 2127 Introduction to Plant Science Biodiversity to Biotechnology, 2nd year course (Dr. Heinermann).
- BIO 2133 Genetics lab, 2nd year course (Dr. Heinermann).
- BIO 3151 Molecular Biology, 3rd year course (Dr. Basso).

Woodroffe High School Ottawa, ON, Canada - *Let's Talk Science (2004/2005)*

- Forensic Science/Molecular Biology module for grade 11 classes.

Universität Stuttgart, BW, Germany – *Teaching Assistantship, lab demonstrator (2003-2004)*

- Einführung in biophysikalische Methoden der Forschung (Introduction to biophysical research methods), 2nd year course (Dr. Hülser).

Supervision of undergraduate students:

University of Texas at Austin – *Supervision of Honour's student (2014-current)*

- Franz Puyol, Mercedes Munselle: Effects of a perinatal low-dose EDC mixture on the offspring's metabolic phenotype in SD rats.
- Syed Zafar,: Hypothalamic molecular mechanisms of the PCB mix A1221 in maternal-lineage dependent weight-gain in SD rats.

Institut National de la Recherche Agronomique – *Co-Supervision of Baccalauréat professionnel students (2011-2013)*

- Christopher Prochasson: Nutritional regulation of hepatic microRNAs in rainbow trout, *Oncorhynchus mykiss*.

University of Ottawa – *Co-Supervision of summer and Honours students (2006-2010)*

- Ed Harris: The effects of fluoxetine on food-intake in goldfish, *Carassius auratus*.
- Jake Zamora: Effect of acute stimulation of the immune system on neuroendocrine control of reproduction in goldfish, *Carassius auratus*.
- Jamie Holden: Effects of fluoxetine on the development of components of the stress axis in zebrafish, *Danio Rerio*.
- Agnes Crnic: Modulation of the recently discovered reproductive peptides GnIH and kisspeptin by the serotonergic system in goldfish, *Carassius auratus*.

SCHOLARSHIPS AND AWARDS:

- Travel Award for Invited Speakers at the Presidential Symposium of the North American Society of Comparative Endocrinology 2015
- Best postdoctoral paper in the Eleventh Annual Louis C. Littlefield Pharmacy Research Excellence day 2015
- Winner of the Endocrine Society's presidential poster Competition 2014 at the Endocrine Society's annual meeting in San Diego
- European Union Marie Curie IEF Post-Doctoral fellowship for research at INRA St.Pée-sur-Nivelle, France, 2011-2013 (Salary and Research expenses, 200,000€)
- Travel grant by Health Canada for a workshop of the Pharmaceutical Advisory group, Niagara-on-the-Lake, Ontario, Canada, 2011 (CAD \$200, declined)
- University of Ottawa Travel award for the NEED Symposium in Rouen, France, 2010 (CAD \$650)
- International Neuroendocrine Federation Young Investigator Travel Award for the 7th International Conference of Neuroendocrinology in Rouen, France, 2010 (CAD \$1000)
- University of Ottawa Travel award for Symposium on Pharmaceuticals in the Environment at the University of Guelph, Ontario, Canada, 2010 (CAD \$200)
- University of Ottawa Graduate Student Association (GSAÉD) Travel Support award for 30th SETAC North America meeting in New Orleans, Louisiana, USA, 2010 (CAD \$500)
- Intrinsic Award for best PhD student presentation, Laurentian SETAC AGM, Ottawa, Ontario, Canada, 2009 (CAD \$200)
- Canadian Water Network Columbia River Field Workshop, Castlegar, British Columbia, 2009 (CAD \$1,000)
- EPCOR Travel Award/Hoar Award Finalist, Canadian Society of Zoology meeting in Toronto, Ontario, Canada, 2009 (CAD \$500)
- University of Ottawa Travel Award for Canadian Society of Zoologists in Halifax, Nova Scotia, Canada, 2008 (CAD \$500)
- PhD Comprehensive exam: Passed with distinction, University of Ottawa, Ontario, Canada, 2007
- PhD Admission scholarship, University of Ottawa, Ontario, Canada, 2006-2010 (tuition fees, valued at CAD \$20,000)
- PhD International scholarship, University of Ottawa, Ontario, Canada, 2006-2010 (tuition fees valued at CAD \$20,000)
- Ontario/Baden-Württemberg Exchange scholarship OBW, Stuttgart, Germany, 2004-2005 (tuition fees valued CAD \$10,000)

PEER-REVIEWED PUBLICATIONS (22):

(22) **Mennigen JA**, Thompson LM, Bell M, Tellez, M, Gore AC. Transgenerational effects of prenatal PCB exposure on the reproductive and metabolic phenotype in the SD rat. *In preparation*.

(21) Zhang D, **Mennigen JA**. 2015. Microtrout: A comprehensive, genome-wide miRNA target prediction framework for rainbow trout, *Oncorhynchus mykiss*. *Submitted*.

- (20) **Mennigen JA**. 2015. Micromanaging metabolism: A role for microRNAs in energy metabolism in teleost fish. Invited review. *Journal of Comparative Biochemistry and Physiology, Part A: Molecular and Integrative Physiology*, S1096-4959: 160-8.
- (19) Geurden I, **Mennigen JA**, Plagnes-Juan E, Veron V, Cerezo T, Mazurais D, Zambonino-Infante J, Gatesoupe J, Skiba-Cassy S, Panserat S. 2014. High or low dietary carbohydrate:protein ratios during first-feeding affect glucose metabolism and intestinal microbiota in juvenile rainbow trout. *Journal of Experimental Biology*, 217: 3396-406.
- (18) **Mennigen JA**, Martyniuk CJ, Seiliez I, Panserat, S. Skiba-Cassy, S. Metabolic consequences of miRNA-122 inhibition in rainbow trout (*Oncorhynchus mykiss*). 2014. *BMC Genomics*, 15:70.
- (17) **Mennigen JA**, Martyniuk CJ, Seiliez I, Panserat S, Skiba-Cassy S. Metabolic effects of miRNA-122 inhibition in rainbow trout (*Oncorhynchus mykiss*) in vivo. 2013. *Journal of Comparative Biochemistry and Physiology, Part B: Molecular and Integrative Physiology*, 169:16-24.
- (16) Dai W, Panserat S, **Mennigen JA**, Terrier F, Dias K, Seiliez I, Skiba-Cassy S. Postprandial regulation of hepatic glucokinase and lipogenesis requires the activation of TORC1 signaling in rainbow trout (*Oncorhynchus mykiss*). 2013. *Journal of Experimental Biology*, 216-4483-92.
- (15) Lado WE, Zhang D, **Mennigen JA**, Zamora JM, Popesku JT, Lewis JE, Trudeau VL. Rapid modulation of gene expression profiles in the forebrain of male goldfish following exposure to waterborne sex pheromones. 2013. *General and Comparative Endocrinology*, 192:204-13.
- (14) **Mennigen JA**, Skiba S, Panserat S. Ontogenesis of expression of metabolic genes and microRNAs in of rainbow trout alevins during the transition from endogenous to exogenous feeding. 2012. *Journal of Experimental Biology*, 216:1597-1608.
- (13) Zhang D, Xi Y, Coccimiglio M, **Mennigen JA**, Jonz M, Ekker M, Trudeau VL. Morpholino knockdown of a novel short trans-membrane protein 1 (Stmap1) blocks mitochondrial respiratory activity in zebrafish. 2012. *Physiological Genomics*, 44:1133-1140.
- (12) **Mennigen JA**, Panserat S, Larquier M, Plagnes-Juan E, Medale F, Seiliez I Skiba-Cassy S. Postprandial regulation of hepatic microRNAs predicted to target the insulin pathway in rainbow trout. 2012. *PLoS One*, 7:e38604.
- (11) **Mennigen JA**, Stroud P, Zamora JM, Moon TW and Trudeau VL. Pharmaceuticals as neuroendocrine disruptors. Lessons learned from fish on Prozac™. 2011. *Journal of Toxicology and Environmental Health, Part B: Critical Reviews*, 14:387-412.
- (10) Popesku JT, **Mennigen JA**, Chang JP, Trudeau VL. Dopamine D1 receptor blockage potentiates AMPA-stimulated luteinising hormone release in the goldfish. 2011. *Journal of Neuroendocrinology* 23:302-309.
- (9) Prindiville JS, **Mennigen JA**, Zamora JM, Moon TW, Weber JM. The fibrate drug gemfibrozil disrupts lipoprotein metabolism of rainbow trout. 2010. *Journal of Toxicology and Applied Pharmacology*, 251:201-208.

(8) **Mennigen JA**, Lado WE, Zamora JM, Chang JP, Moon T, Trudeau VL. Waterborne fluoxetine disrupts the reproductive axis in sexually mature male goldfish, *Carassius auratus*. 2010. *Aquatic Toxicology*, 100:354-364.

(7) Oakes KD, Coors A, Escher B, Fenner K, Garric J, Gust M, Knacker T, Kuster A, Kussatz C, Metcalfe CD, Monteiro S, Moon T, **Mennigen JA**, Parrott J, Pery AR, Ramil M, Tarazona JV, Sanchez-Arguello, Ternes TA, Trudeau VL, Boucard T, Van der Kraak GJ, Servos M. 2010. An Environmental Risk Assessment for the serotonin Re-uptake inhibitor Fluoxetine – A case study utilizing the European Risk assessment framework. *Integrated Environmental Assessment and Management*, 6:524-539.

(6) Zhao E, Grey C, Zhang D, **Mennigen JA**, Basak A, Chang JP, Trudeau VL. Secretoneurin (SN) is a paracrine factor from lactotrophs stimulating gonadotropin release in the goldfish pituitary. 2010. *American Journal of Physiology - Regulatory, Integrative and Comparative Physiology*, 299:1290-1297.

(5) Zhang D, Xiong H, **Mennigen J**, Popesku JT, Marlatt VL, Martyniuk CJ, Crump K, Cossins AW, Xia X, Trudeau VL. 2010. Defining global neuroendocrine gene expression patterns associated with reproductive seasonality in fish. *PLoS One*, 4:e5816.

(4) **Mennigen JA**, Sassine J, Trudeau VL, Moon TW. Effects of waterborne fluoxetine on food intake, weight and energy metabolism parameters in goldfish, *Carassius auratus*. 2010. *Aquatic Toxicology*, 100:128-137.

(3) **Mennigen JA**, Harris EA, Chang JP, Trudeau VL, Moon TW. 2009. The effect of fluoxetine on food intake and weight gain in female goldfish. *Regulatory Peptides*, 155:99-104.

(2) **Mennigen JA**, Martyniuk CJ, Crump K, Xiong H, Zhao E, Popesku JT, Anisman H, Cossins AR, Xia X, and Trudeau VL. 2008. The effect of fluoxetine on the reproductive axis of female goldfish, *Carassius auratus*. *Physiological Genomics*, 35:273-282.

(1) Popesku JT, Martyniuk CJ, **Mennigen JA**, Xiong H, Zhang D, Xia X, Cossins AR and Trudeau VL. 2008. The goldfish (*Carassius auratus*) as a model for neuroendocrine signalling. *Journal of Molecular Endocrinology*, 293:43-56.

CONFERENCE CONTRIBUTIONS / NON PEER -REVIEWED PUBLICATIONS (36):

(36) **Mennigen JA***. Endocrine regulation of microRNAs in teleost fish. 2015. Invited presidential symposium presentation at the presidential symposium at the 3rd Annual meeting of the North American Society for Comparative Endocrinology (NASCE) presidential symposium. Ottawa, ON, Canada, Jun. 21st-25th.

(35) **Mennigen JA***, Thompson LM, Gore AC, 2015. Transgenerational effects of prenatal PCB exposure on AVPV gene expression in the SD rat. University of Austin, TX, USA. Apr. 23rd.

- (34) Thompson LM, Mennigen JA, Bell M, Tellez, M, Gore AC. Transgenerational effects of prenatal PCB exposure on the reproductive and metabolic phenotype in the SD rat. The 97th Annual Meeting of the Endocrine society. San Diego, CA, United States, Mar. 5th-8th
- (33) **Mennigen JA**, Thompson LM, Gore AC. Transgenerational effects of prenatal PCB exposure on gene expression in the AVPV of rats. 2015. The 97th Annual Meeting of the Endocrine society. San Diego, CA, United States, Mar. 5th-8th
- (32) Skiba S, **Mennigen JA**. Regulation and function of microRNA-122 in rainbow trout (*Oncorhynchus mykiss*). 2013. INRA Departmental meeting Physiologie animale et systèmes d'élevage (PHASE). Paris, France. Oct. 4th-5th.
- (31) Trudeau VL, Lado WE, Zhang D, **Mennigen JA**, Zamora JM, Popesku JT, Lewis JE. Mapping neuronal pathways and gene expression networks underlying sex pheromone actions in male goldfish. 2012. 7th International Symposium on Fish Endocrinology (ISFE), Buenos Aires, Argentina. Sept. 3rd-6th.
- (30) **Mennigen JA***, Panserat S, Larquier M, Plagnes-Juan E, Medale F, Seiliez I, Skiba-Cassy S. Postprandial regulation of hepatic microRNAs predicted to target the insulin pathway in rainbow trout. 2012. 15th International Symposium on Fish Nutrition and Feeding (IFNF), Molde, Norway. Jun. 4th-7th.
- (29) Lado WE, **Mennigen JA**, Zamora J, Popesku JP, Pranckeviciene E, Xia X, Lewis JE, Trudeau, VL. Gene expression profiles of male goldfish exposed to the priming sex pheromone 17alpha,20beta,dihydroxy-4-prgenen-3-one. 50th Annual meeting of the Canadian Society of Zoologists (CSZ), University of Ottawa, Ottawa, ON, Canada. May 16th-20th.
- (28) Crcnic A, Lado WE, **Mennigen JA**, Lewis JE, Trudeau VL. Effects of serotonin on preoptic neurons implicated in the control of male goldfish reproduction. 2011. 50th Annual meeting of the Canadian Society of Zoologists (CSZ), University of Ottawa, Ottawa, ON, Canada. May 16th-20th.
- (27) Crcnic A, Lado WE, **Mennigen JA**, Lewis JE, Trudeau VL. Effects of serotonin on preoptic neurons implicated in the control of male goldfish reproduction. 2011. Honour's students' poster presentation, University of Ottawa, Ottawa, ON, Canada. Mar. 25th.
- (26) Zamora JM, **Mennigen JA**, Trudeau VL. Effect of acute stimulation of the immune system on neuroendocrine control of reproduction in goldfish, *Carassius auratus*. 2011. Honour's students' poster presentation, University of Ottawa, Ottawa, ON, Canada. Mar. 25th.
- (25) **Mennigen JA**, Sassine J, Lado WE, Zamora JM, Moon TW and Trudeau VL. The effects of waterborne fluoxetine on the physiology of reproduction and feeding in goldfish: A mechanistic evaluation. 2010. 7th International Congress of Neuroendocrinology (ICN), Faculté de Droit, Université de Rouen, Rouen, France. Jul. 11th-15th.

- (24) Trudeau VL, **Mennigen JA**, Wagh P, Popesku JT, Mimeault C, Lui G, Moon TW. Neuroendocrine disruption: More than fish hormones are upset. 2010. Environmental Science Research Initiative, Atrium New Science Complex, University of Guelph, ON, Canada. Feb. 27th.
- (23) **Mennigen JA**, Sassine J, Lado WE, Zamora JM, Moon TW, Trudeau VL. The effects of waterborne fluoxetine on the physiology of reproduction and feeding in goldfish: A mechanistic evaluation. 2010. Pharmaceuticals in the Environment workshop. Environmental Science Research Initiative, Atrium New Science Complex, University of Guelph, ON, Canada. Feb. 27th.
- (22) **Mennigen JA***, Lado WE, Zamora JM, Chang JP, Trudeau VL. Sublethal effects of fluoxetine on the male reproductive axis in goldfish, *Carassius auratus*, 2009. 30th Annual meeting of the Society of Environmental Toxicology and Chemistry North America (SETAC), Hilton Riverside, New Orleans, LA, USA. Nov. 19th-23rd.
- (21) Moon T, Prindiville J, Sassine J, **Mennigen J**, Weber J, Trudeau VL. Human pharmaceuticals disrupt feeding and fuel storage in fish. 2009. 36th Aquatic Toxicology Workshop. La Malbaie, Charlevoix, QC, Canada. Sept. 27th-30th.
- (20) Zhao E, Basak A, Zhang D, **Mennigen JA**, Wong AOL, Trudeau VL. Secretoneurin is a paracrine factor stimulating gonadotropin release in goldfish pituitary under the control of gonadotropin releasing hormone (GnRH). 2009. 16th International Congress of Comparative Endocrinology (ICCE), Hong-Kong, China. Jun. 22th-26th.
- (19) **Mennigen JA***, Moon TW, Trudeau VL. Sublethal effects of fluoxetine in reproduction and feeding in goldfish, *Carassius auratus*: Environmental implications. 2009. 14th Annual General Meeting and Conference of the Laurentian Society of Environmental Toxicology and Chemistry (SETAC), Ottawa, ON, Canada. Jun. 19th.
- (18) **Mennigen JA***, Zhao E, Zhang D, Moon TW, Trudeau VL. The effect of isotocin on the reproductive axis of the female goldfish, *Carassius auratus*. 2009. 48th Annual meeting of the Canadian Society of Zoology (CSZ), Scarborough, ON, Canada. May 15th.
- (17) **Mennigen JA**, Trudeau VL. Physiological roles of isotocin in the reproductive phase of the female goldfish, *Carassius auratus*. 2008. 6th Annual symposium of the Ottawa-Carleton Institute of Biology (OCIB), Carleton University, Ottawa, ON, Canada. Apr. 30th-May 1st.
- (16) **Mennigen JA**, Sassine J, Moon TW, Trudeau VL. The effects of waterborne fluoxetine on feeding and metabolic parameters in goldfish, *Carassius auratus*. 2008. 18th Annual conference on comparative physiology and biochemistry, Elmhirst's Resort, Keene, ON, Canada. Feb. 6th-8th.
- (15) Zhang D, Xiong H, Popesku J, **Mennigen JA**, Martyniuk C, Crump K, Xia X, Trudeau VL. Fishing for seasonal gene expression patterns in neuroendocrine brain from multiple microarray datasets. 2008. 16th Annual International Conference on Intelligent Systems for Molecular Biology. Metro Toronto Convention Centre, Toronto, ON, Canada. Jul. 19th-23rd.

- (14) Moon TW, Mimeault C, Cameron C, **Mennigen JA**, Sassine J, Trudeau VL. Pharmaceuticals found in the aquatic environment affect steroidogenesis and feeding in fish. 2008. 6th International Symposium of Fish Endocrinology (ISFE), Calgary, AB, Canada. Jun. 22nd-27th.
- (13) Trudeau VL, Popesku JT, Martyniuk CJ, **Mennigen JA**, Zhang D, Xiong H, Xia X, Cossins AR. Lipid- and cholesterol-lowering drugs and an anti-depressant modulate multiple pathways within steroidogenesis and reproduction in fish. Probing neuroendocrine signaling using transcriptomics. 2008. 47th Annual meeting of the Canadian Society of Zoologists (CSZ), Mount St. Vincent University, Halifax, NS, Canada. May 19th-23rd.
- (12) **Mennigen JA***, Harris E, Moon T and Trudeau VL. The effects of fluoxetine on food intake and growth in female goldfish, *Carassius auratus*. 2008. 47th Annual meeting of the Canadian Society of Zoologists (CSZ), Mount St. Vincent University, Halifax, NS, Canada. May 19th-23rd.
- (11) Harris E, **Mennigen JA**, Moon T and Trudeau VL. The effects of fluoxetine on food intake and growth in female goldfish, *Carassius auratus*. 2008. Honour's student poster presentation, University of Ottawa, Ottawa, ON, Canada. Mar. 28th.
- (10) **Mennigen JA**, Popesku JT, Martinyuk C, Xiong H, Zhang D, Xia X, Cossins A, Moon T, Trudeau VL. Neurotransmitter regulation of gene expression in the neuroendocrine brain of goldfish (*Carassius auratus*): Emerging role for isotocin in reproduction. 2008. 26th Canadian Workshop on Human Reproduction and Reproductive Biology. Ottawa, ON, Canada. May 14th.
- (9) **Mennigen JA**, Popesku JT, Martinyuk C, Xiong H, Zhang D, Xia X, Cossins A, Moon T, Trudeau VL. Neurotransmitter regulation of gene expression in the neuroendocrine brain of goldfish (*Carassius auratus*): Emerging role for isotocin in reproduction. 2008. Ottawa-Carleton Institute of Biology Symposium, University of Ottawa, Ottawa, ON, Canada. Apr. 28th - 29th.
- (8) **Mennigen JA***, Harris E, Moon T and Trudeau VL. The effects of fluoxetine on food intake and growth in female goldfish, *Carassius auratus*. 2008. 17th Annual conference on Comparative Physiology and Biochemistry, Elmhirst's Resort, Keene, ON, Canada. Feb 8th-10th.
- (7) Trudeau V, Popesku J, **Mennigen JA**, Basu N, Martel P, Kovacs T, Hewitt M, Milestone C, Sherry J, Parrott J, Arnason J. 2007. Endocrine Disruption: More than just hormones. 7th Annual Congress of the Society of Environmental Toxicology and Chemistry Latin America (SETAC), Montevideo, Uruguay. Oct. 8th-11th.
- (6) Moon T, Mimeault C, Woodhouse A, Cameron C, Estey C, Bullock L, **Mennigen JA**, Trudeau VL. Lipid- and cholesterol-lowering drugs and an anti-depressant modulate multiple pathways within steroidogenesis and reproduction in fish. 2007. 34th Annual Aquatic Toxicity Workshop, Halifax, NS, Canada. Sep. 30th-Oct. 3rd.
- (5) Khalouei S, Yao X, **Mennigen JA**, Carullo M, Ma P, Song Z, Xiong H, Xia X. Bioinformatic Approach to Identify Penultimate Amino Acids Efficient for N-Terminal Methionine Excision. 2007. 1st International Conference on Bioinformatics and Biomedical Engineering. Wuhan University, Wuhan, China. Jul. 6th-8th.

(4) **Mennigen JA**, Martyniuk C, Crump K, Marlatt V, Xiong H, Woodhouse A, Nadler A, Anisman H, Xia X, Moon T, Trudeau VL. The effect of fluoxetine on the reproductive axis of female goldfish, *Carassius auratus*. 2007. Ottawa-Carleton Institute of Biology (OCIB) Symposium, Carleton University, Ottawa, ON, Canada. May 1st-2nd.

(3) **Mennigen JA**, Martyniuk C, Crump K, Marlatt V, Xiong H, Woodhouse A, Nadler A, Anisman H, Xia X, Moon T, Trudeau VL. The effect of fluoxetine on the reproductive axis of female goldfish, *Carassius auratus*. 2007. Pharmaceutical and Personal Care Products in the Canadian Environment: Research and Policy Directions, Queen's landing Inn, Niagra-on-the-Lake, ON, Canada. Mar. 5th-7th.

(2) **Mennigen JA***, Martyniuk C, Crump K, Marlatt V, Xiong H, Woodhouse A, Nadler A, Anisman H, Xia X, Moon T, Trudeau VL. The effect of fluoxetine on the reproductive axis in female goldfish, *Carassius auratus*, 2007. 16th Annual conference on comparative physiology and biochemistry. Elmhirst's Resort, Keene, ON, Canada. Feb. 2nd-4th.

(1) Trudeau VL, Cameron C, **Mennigen JA**, Martyniuk C, Marlatt V, Moon T. Pharmaceuticals In The Aquatic Environment: Drugged Fish? 2006. 23rd Conference of European Comparative Endocrinologists, Manchester, UK. Aug. 29th-Sep. 1st.

* Represents personal oral presentations

INVITED SEMINARS (5):

(5) **Mennigen JA**. Developmental and trans-generational effects of endocrine disrupting chemicals. 2015. Baylor University, Waco, TX, United States. Feb 25th.

(4) **Mennigen JA**. The endocrine regulation of metabolism and its disruption by EDCs in vertebrates. 2015. University of Ottawa, ON, Canada, Jan 21st.

(3) **Mennigen JA**. The SSRI fluoxetine, a (neuro)endocrine disrupting chemical? 2009. Physiology Seminar Series, University of Ottawa, Ottawa, ON, Canada. Feb. 11th.

(2) **Mennigen JA**. Disruption of the serotonergic regulation of the endocrine brain of female goldfish through the SSRI pharmaceutical fluoxetine. 2008. Canadian Wildlife Service Seminar series National Wildlife Research Centre (NWRC) seminar, National Wildlife Research Centre, Raven Road, Carleton University, Ottawa, Ontario, Canada. Dec. 10th.

(1) **Mennigen JA**. Prozac in the environment: Update from Canada. 2006. ERAPharm Workshop, Viamede Resort, Peterborough, ON, Canada. Oct. 3rd.

PROFESSIONAL AND PUBLIC SERVICE:

Co-evaluation of student theses:

- Christopher Prochasson: Nutritional regulation of hepatic microRNA in rainbow trout, *Oncorhynchus mykiss* (Rapport de stage, Baccalauréat professionnel, INRA St.Pée-sur-Nivelle, 2013).
- Jake Zamora: Effect of acute stimulation of the immune system on neuroendocrine control of reproduction in goldfish, *Carassius auratus* (Honour's thesis, University of Ottawa, 2011).

Ad-hoc reviewer of articles for scientific journals:

- Archives of Womens' Mental Health (1)
- BMC Genomics (2)
- Ecotoxicology (1)
- Endocrinology (1)
- Environmental Pollution (1)
- General and Comparative Endocrinology (6)
- International Journal of Biological Science (1)
- The British Journal of Nutrition (1)
- The Journal of Aquatic Toxicology (2)
- The Journal of Comparative Physiology and Biochemistry, Part B: Biochemistry and Molecular Biology (4)
- The Journal of Clinical Endocrinology and Metabolism (1)
- The Journal of Experimental Biology (1)
- Toxicological and Environmental Chemistry (1)
- The Journal of Fish Biology (1)
- The International Journal of Fisheries and Aquaculture (1)
- The Journal of Toxicology and Environmental Health, Part B: Critical reviews (1)

Chairing of conference sessions:

- Chairing a student session of the 19th Annual Conference on Comparative Physiology and Biochemistry, 2010. Elmhirst's Resort, Keene, ON, Canada. Feb. 5th-7th.

Professional Memberships:

- Society of Environmental Toxicology and Chemistry (SETAC)
- Canadian Society of Zoologists (CSZ)
- Canadian Water Network (CWN)
- North American Society for Comparative Endocrinology (NASCE)
- The Endocrine Society (ENDO)
- American Society for the Advancement of Science (AAAS)

IMPACT:

Citation indices:

Citations: 567

h-index: 11

i10-index: 11

(Google scholar, Nov. 2015)

Additional impact:

- **Mennigen JA.** The article 'Waterborne fluoxetine disrupts the reproductive axis in sexually mature male goldfish, *Carassius auratus*' published in *Aquatic Toxicology* was featured in the journal's TOP 25 Hottest Articles list between October 2010 and March 2011.
- **Mennigen JA.** The article 'Waterborne fluoxetine disrupts the reproductive axis in sexually mature male goldfish, *Carassius auratus*' published in *Aquatic toxicology* featured in regional and international radio, print media, and the Internet. Selected examples include: The Ottawa Citizen, CBC News Radio (Canada), La Presse Montreal (Canada), Agence France Presse (France), The Independent (U.K.), India Times (India), World News SBS Australia (Australia).
- **Mennigen JA** and Trudeau VL featured on a televised CTV special on pollutants in the environment, 2008. 6 PM news Ottawa, Feb. 19th.
- **Mennigen JA.** The article 'The effect of fluoxetine on the reproductive axis of female goldfish, *Carassius auratus*', published in *Physiological Genomics* was cited in the 'Petition for water quality criteria for endocrine disrupting chemicals under section 304 of the clean water act, 33 U.S.C. 1314 presented to the U.S. Environmental Protection Agency (EPA) by the Center for Biological Diversity.
- **Mennigen JA.** The abstract 'The effect of fluoxetine on the reproductive axis of female goldfish, *Carassius auratus*' from the Pharmaceuticals and Personal Care Products (PPCPs) in the Environment workshop, 2007 cited in the Chartered Institute of Environmental Health report on challenges and opportunities in studying ecologic and population health impacts of endocrine toxicants (2008).
- **Mennigen JA.** The abstract 'The effect of fluoxetine on the reproductive axis of female goldfish, *Carassius auratus*' from the PPCPs in the Environment workshop cited in the National Water Research Institute (NWRI) Assessment report Series No. 8, Environment Canada.

REFERENCES:

- **Dr. Andrea C. Gore – Gustavus and Louise Pfeiffer Professor**
Division of Pharmacology and Toxicology and Pharmacology
University of Texas at Austin
Austin, TX, United States
andrea.gore@austin.utexas.edu
- **Dr. David Crews – Ashbel Smith Professor of Zoology and Psychology**
Department of Zoology
University of Texas at Austin
Austin, TX, United States
trudeauv@uottawa.ca
- **Dr. Vance L. Trudeau – Professor**
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