

**Alexander Suvorov, PhD**

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**Professional Experience**

2013-present Assistant/Associate Professor in Environmental Health Sciences  
*Department of Environmental Health Science, School of Public Health and Health Sciences, University of Massachusetts, Amherst*

- Research of molecular mechanisms of tissues reprogramming by developmental exposures to environmental xenobiotics.
- Graduate teaching:
  - PUBHLTH 666: Environmental and Occupational Toxicology I – spring 2014, spring 2015, fall 2015, fall 2016, fall 2017, fall 2018, fall 2019, fall 2020 (distant, with asynchronous option)
  - PUBHLTH 667: Environmental and Occupational Toxicology II – spring 2016, spring 2017, spring 2018, spring 2020
  - EHS 790VS-01: Graduate Seminar in Environmental Health (co-instructor Dr. Laura Vandenberg) – fall 2015, spring 2016
- Undergraduate teaching:
  - PUBHLTH 494: Public Health Capstone Course – fall 2013
  - FFYS 197PUBH4-01: GMO and Public Health – spring 2014
  - HONORS 391A-18: Honors Seminar 2: Biodiversity and Public Health – fall 2014
  - PUBHLTH 490VS-01: Seminar in Environmental Health (co-instructor Dr. Laura Vandenberg) – fall 2015, spring 2016
  - PUBHLTH 390AS: Introduction to Food Toxicology – fall 2016, fall 2017, fall 2018, spring 2019
- Service international:
  - Associate editor, Molecular Human Reproduction, European Society of Human Reproduction and Embryology – 2019-now
  - Chair Epigenetics Poster Session at the Society of Toxicology (SOT) Annual Meeting, 2021
  - Expert at Chat With an Expert Program at the SOT Annual Meeting, 2020, 2021
  - Member of the Society of Toxicology Continuing Education Committee – 2017-2020
  - Prepared educational modules on environmental endocrine disruptors for the WHO, 2018
- Service national:
  - NIH SIEE study section, Early Career Reviewer – 2019
  - NIH ZES1 LAT-S (K9) study section, Reviewer – 2019
- Service to UMass
  - Graduate Program Director – 2020-now
  - Member of SPHHS Graduate Curriculum Committee – 2020-now
  - Member of UMass Center & Institute Review Committee – 2019-now
  - Chair of EHS Admissions Committee -2018-2020
  - Member of EHS Bylaws Committee -2018-2019
  - Member of Assistant Professor in Environmental Health Sciences Search Committee (2019)
  - Chair of Assistant Professor in Environmental Health Sciences Search Committee (2018)
  - Organizer and chair of EHS Chalk-Talks – 2018-2020
  - Member of SPHHS diversity committee – 2016-2018
  - Member of EHS Recruiting Committee – 2018-2020
  - Environmental Health & Lab Safety coordinator for the Department of Environmental Health Sciences 2013-2018
  - Member of the SPHHS Research Committee – 2013-2016
  - Member of EHS Strategic Planning Committee – 2015-2016

- Member of EHS Department Chair Search Committee (2015), and Assistant Professor of Biostatistics Search Committee (2014-2015).
- Member of Next Generation Sequencers (NGS) Advisory Board - 2013-2016.
- Member of MCB graduate program recruiting committee – 2014-now
- PHP/MPH Steering Committee member – 2015-now

2018-present Adjunct Professor

*Epigenetics Epidemiology Research Group, A.N. Belozersky Institute of Physico-Chemical Biology of the Moscow State University*

2010-2013 Senior Postdoctoral Research Associate in Molecular Toxicology

*Department of Biology, Boston University, Boston, USA.*

*Supervisor: Dr. David J. Waxman*

- Analysis of epigenetic regulation of sex-specific genes in mouse liver by growth hormone;
- Analysis of reprogramming of histone methylation profile in mice reproductive tissues by *in utero* exposure to xenoestrogen bisphenol A;
- Genomic screening of molecular pathways altered in mice reproductive tissues by *in utero* exposure to xenoestrogen bisphenol A;
- Genomic analysis of gene expression profile changes in mouse uterus throughout estrus cycle;
- Supervision of graduate students: development of instruction materials, assignment formulation, research methods teaching, consulting, evaluation of progress;
- Popularization of science in the framework of Biology Inquiry & Outreach with Boston University Graduate Students Program for High School Students;
- Presentation of research results at local and international meetings, preparation of grant applications, reports and papers for peer review journals.

2007-2010 Postdoctoral Fellow in Environmental Toxicology

*Département Obstétrique Gynécologie, Université de Sherbrooke, Sherbrooke, Canada*

*Supervisor: Dr. Larissa Takser*

- Genomic screening of molecular pathways affected in liver of rat offspring by low-dose perinatal exposure to 2,2',4,4'-Tetrabromodiphenyl ether (BDE-47);
- Analysis of neuro-developmental and endocrine effects of perinatal exposure to BDE-47 in rats: anchoring behavioral endpoints in altered molecular pathways;
- *In vitro* analysis of BDE-47 interaction with thyroid receptor;
- Developmental toxicity of cyanobacterial toxins (microcystin-LR, cylindrospermopsin, anatoxin A) in rats exposed to recommended guideline doses for drinking water;
- Historical review of literature data on PCB (polychlorinated biphenyls) and PBDE (polybrominated diphenyl ethers) toxicity to highlight generic shortages in experimental design that slow down data accumulation for risk assessment;
- Supervision of graduate students: development of instruction materials, assignment formulation, research methods teaching, consulting, evaluation of progress;
- Popularization of science: preparation of materials for newspapers and magazines;
- Presentation of research results at local and international meetings, preparation of grant applications, reports and papers for peer review journals.

2003-2006 Habilitation

*Institute of Animal Ecology and Evolution of the Russian Academy of Sciences, Moscow.*

*Advisers: Dr. Anatoly A. Schileyko, and Dr. Bella R. Striganova*

- Study of macro-phylogenetic trends in evolution of complex adaptations in pulmonate mollusks;
- Organized and conducted field research, laboratory experiments, managed invertebrate collection;
- Supervision of graduate students: development of instruction materials, assignment formulation, research methods teaching, consulting, evaluation of progress;

- Popularization of science: participation in educational documentaries;
- Presentation of research results at local and international meetings, preparation of reports and papers for peer review journals.

1995-2003     Assistant/Associate Professor  
*Department of Biology, Ryazan University, Russia*

- Teaching graduate and undergraduate courses: Introductory Biology, Molecular Biology, Genetics, Physiology and Anatomy, and Environmental Science;
- Supervision of graduate and undergraduate research projects;
- Research grants acquisition, laboratory management;
- Study of morphology, ecology, fauna, taxonomy, evolution and conservation of pulmonate molluscs;
- Services:
  - Development of curriculum for pre-service teachers training;
  - Lead Field Studies Council of the Biology Faculty;
  - Member of the Departmental Curriculum Review Committee;
  - Member of Scientific Council of the Biology Faculty.

1991-1994     PhD Student  
*Institute of Animal Ecology and Evolution of the Russian Academy of Sciences, Moscow*  
*Supervisor: Dr. Anatoly A. Schileyko*

- Study of morphology, ecology, and evolution of pulmonate mollusks;
- Supervision of undergraduate students.

### **Education**

2010-2013     Senior Postdoctoral Research Associate, Boston University (Boston, USA)  
 2007-2010     Postdoctoral Fellow, Université de Sherbrooke (Sherbrooke, Canada)  
 2003-2006     Doctor of Science in Biology, Ecology and Evolution Institute of the Russian Academy of Sciences (Moscow, Russia)  
 1991-1994     Ph.D. in Biology, Ecology and Evolution Institute of the Russian Academy of Sciences (Moscow, Russia)  
 1985-1990     Bachelor & M.Sc. in Biology, Moscow State Pedagogical University (Moscow, Russia)

### **Related Teaching Experience**

- Expert at Chat With an Expert Program at the Society of Toxicology Annual Meeting, 2020, 2021
- Prepared educational modules on environmental endocrine disruptors for the WHO, 2018
- Judge at poster session of SPHHS Research day, 2018
- Judge at poster session of SPHHS Research day, 2017
- Judge at poster session of 96<sup>th</sup> Annual Meeting of AAAS Pacific Division, San-Francisco, 2015
- Member of retreat/recruiting committee for the Molecular and Cellular Biology Annual Retreat, 2015 - 2018
- Judge at poster session of Molecular and Cellular Biology Annual Retreat, 2014 - 2016
- Consultant at the course Writing in Biology, instructor Steven Brewer, fall 2014
- Member of Selection Committee of the Annual Regional Youth Research Conference, “Human and Environment”, 2002, 2003, 2005.
- Judge in ecology and zoology sections at the annual scientific competition of the Youth Science Fair of the Ryazan region, 1998-2005.
- Organizer and leader of the Ryazan Zoological Workshop, 1996-2002.
- Research Advisor in Youth Center for Environmental Studies, 1992-2001.
- Research Tutor in yearly Summer Youth Ecological Camp, 1994-2000.
- Invited lecturer, Ryazan Institute of Advanced Studies (Certification courses for biology teachers): Environmental Toxicology, 1995-2003, Ecology, 1999-2005, Methodology of field studies, 2003.
- Invited lecturer for distance-learning courses, Moscow State University of Culture and Arts: Introduction to Scientific Method for Humanities Majors, 1995, 1999, 2003.

- Invited lecturer, St.-Petersburg University of Management and Economics: Intro to Environmental Health and Safety, 2002, Introduction to Scientific Method for Humanities Majors, 2005.

### Community Service and Consulting

- NIH SIEE study section, Early Career Reviewer – 2019
- NIH ZES1 LAT-S (K9) study section, Reviewer – 2019
- Liaison for 2 continuous education courses at the annual SOT meeting, Anaheim, 2020
- Liaison for 1 continuous education course at the annual SOT meeting, Baltimore, 2019
- Liaison for 2 continuous education courses at the annual SOT meeting, San Antonio, 2018
- Spoke about research in radio show “Lab talks with Laura”:  
<https://soundcloud.com/labtalkwithlaura/ep-8-monk-sasha-and-matt-31318>, 2018
- Organized series of seminars and webinars in the USA and Russia in a framework of the project “Shaping the future of chemical safety together”, 2016-2017
- Talk at SciTech Café: How to Navigate Environments with Toxins, Amherst, 2015
- Science seminar in Amherst Montessori school, 2015.
- Prepare risk assessment of 9 occupational reproductive toxins for Institute for Research in Occupational Health and Safety (IRSST), Québec, Canada, 2010-2011.
- Review/edit the book “Identifying Land Snails and Slugs in Canada, Introduced Species and Native Genera”, Canadian Food Inspection Agency, 2010.
- Led interdisciplinary group for the development and application of technology for detoxification of the Ryazan Tannery wastewater (awarded silver Utkin medal for scientific innovation and technology transfer), 2001-2006.
- Assessment of conservation status for 11 species of terrestrial Pulmonata (Mollusca) for International Union for Conservation of Nature (IUCN) Red Data Book, 2008-2009.
- Biodiversity inventory of the Ritza Lake National Park, Abkhazia, 2001.
- Led a project Red Data Book of Ryazan region, author of the chapter “Molluscs”, 1997-2001.
- Biodiversity inventory of the Altajsky State Nature Biosphere Reserve, 2000.
- Review of conservation status of molluscs on the territory of 15 countries (former USSR) in a framework of IUCN project “Action Plan for the Conservation of Land and Freshwater Molluscs”, 1998.

### Mentoring

#### ***Undergraduate Research Assistantship***

Eliezer Colon (2013-2014, *Advisor*): Changes in social behavior of mice after perinatal exposure to bisphenol S

Richard Mpanga (2013-2014, *Advisor*): Gene set enrichment analysis of published transcriptomic datasets obtained from toxicological experiments with brominated flame retardants

Benjamin Kim (2013-2015, *Advisor*): Sociability of mice offspring developmentally exposed to tetrabromodiphenyl ether

Shivansh Chawla (2014, *Advisor*): Effects of body weight on social dominance status in CD-1 mice

Anna Steele (2015, *Advisor*): Changes in expression of genes controlled via mTOR pathway in adipose tissue of mice exposed perinatally to tetrabromodiphenyl ether

Rory O’Connell (2015, *Advisor*): Changes in expression of genes controlled via mTOR pathway in skeletal muscles of mice exposed perinatally to tetrabromodiphenyl ether

James Traversy (2016, *Advisor*): Gene expression analysis of select genes in testis of rats exposed perinatally to brominated flame retardant BDE-47

Jake Edward Jensen (2015-2016, *Advisor*): Long-term effects of developmental exposures to brominated flame retardant BDE-47 on sperm quality in rat model

Daneal Ezra Portman (2015-2016, *Advisor*): Long-term effects of developmental exposures to brominated flame retardant BDE-47 on male reproductive health in rat model

Cassandra Ann Thorburn (2015-2016, *Advisor*): Bioinformatic analysis of transcriptomic response to perinatal exposure to BDE-47 in male mouse liver

Aser Abrha (2016-2017, *Advisor*): Transcriptomic analysis of gonadal adipose tissue in male mice exposed perinatally to 2,2',4,4'-tetrabromodiphenyl Ether (BDE-47)

Robin Kelly (2017, *Advisor*): qRT-PCR changes in expression of metabolic genes in livers of adult mice in response to pre- or neonatal exposure to BDE-47

Shannon Kim (2017, *Advisor*): qRT-PCR changes in expression of metabolic genes in livers of newborn mice in response to pre- or neonatal exposure to BDE-47

Anthony Poluyanoff (2017-2019, *Advisor*): Analysis of changes in expression of liver lipid transporter Cd36 in mice with inactivated mTORC1 or mTORC2 in response to neonatal BDE-47

Joseph McGaunn (2017-2020, *Advisor*): Bioinformatic analysis of changes in liver transcriptome in mice with inactivated mTORC1 in response to neonatal BDE-47

Menna Teffer (2018-2020, *Advisor*): Intergenerational inheritance through paternal germline induced by preconception exposure to phthalates

Victoria Salemme (2017-2021, *Advisor*): Analysis of changes of blood/liver triglycerides balance in mice with inactivated mTORC1 or mTORC2 in response to neonatal BDE-47

Makena Caron (2020-2021, *Advisor*): Unbiased approach for the identification of molecular pathways sensitive to low vs high doses of chemical exposures.

### ***Undergraduate Honors Thesis***

Eliezer Colon (2015, *Advisor*): Liver transcriptomic response to developmental exposure to bisphenol S in mouse model

D'Andre Quinerly (2015, *Member*): Effects of developmental exposure to bisphenol S, a BPA substitute, on mouse mammary gland

Cassandra Ann Thorburn (2016, *Advisor*): Bioinformatic analysis of transcriptomic response to perinatal exposure to BDE-47 in male mouse liver

Daneal Ezra Portman (2016, *Advisor*): Long-term effects of developmental exposures to brominated flame retardant BDE-47 on male reproductive health in rat model

Meghan Rose Bernier (2016, *Member*): Dermal bisphenol A exposure via thermal paper in a college population

Benjamin Kim (2017, *Advisor*): Developmental reprogramming of mTOR pathway by polybrominated diphenyl ethers

Aser Abrha (2017, *Advisor*): Transcriptomic analysis of gonadal adipose tissue in male mice exposed perinatally to 2,2',4,4'-Tetrabromodiphenyl Ether (BDE-47)

Durga Kolla (2017, *Member*): Developmental exposure to xenoestrogens and their effects on the female mouse mammary gland

Lauren Hurley (2018, *Member*): The effects of prenatal exposure to a mixture of twenty-three chemicals commonly used in unconventional oil and gas extraction on the mouse mammary gland

Aastha Pokharel (2018, *Member*): Adult lactogenesis disruption by perinatal exposure to BPS in mouse model

Srinihaari Josyula (2018, *Member*): Association between sperm mitochondrial copy number and genome wide DNA methylation

Joseph Paul McGaunn (2020, *Advisor*): Role of the blood-testis barrier in epigenetic aging of sperm

- Pfizer SOT Undergraduate Travel Award – November 2019
- Rick Pitino Presidential Medal Scholarship – October 2019
- Commonwealth Honors College Honors Research Grant Awardee – July 2019
- Selected for the 2019 Crowley-Nowick Award for iCons Student Leadership and Philanthropy – April 2019
- Selected for the 2019 Linda Slakey Award – April 2019
- 2019-2020 Center for Research on Families Undergraduate Assistantship Award – March 2019
- Awarded membership to the Nu Rho Psi National Honor Society in Neuroscience – March 2019

Victoria Salemme (2020, *Advisor*): Analysis of changes of blood/liver triglycerides balance in mice with inactivated mTORC1 or mTORC2 in response to neonatal BDE-47

- Commonwealth Honors College Honors Research Grant Awardee – July 2019

Menna Teffer (2020, *Advisor*): Intergenerational inheritance through paternal germline induced by preconception exposure to phthalates

- Pfizer SOT Undergraduate Travel Award – November 2019
- Commonwealth Honors College Honors Research Grant Awardee – July 2019

**MS Students (Thesis)**

Matthew De Gannes (2014, Member): Rapid method of processing sperm for nucleic acid extraction in clinical research

Corinne Hill (2015, Member): Effects of developmental exposures of two emerging environmental toxicants on estrogen-sensitive endpoints

Sarah Brown (2016, Member): Effects of butyl paraben on pancreatic development in zebrafish embryos

Alexandra Olmsted (2017, Member): Sperm mitochondrial copy number and associations with oxidative stress and phthalate metabolites in male partners undergoing assisted reproductive technologies

Brooke Stebbins (2018, Member): Method development for cost effective control of drinking water contamination with pathogenic bacteria

Anthony Poluyanoff (2020, Chair): Control of liver gene expression by mTOR pathway

**MPH Students (Independent Study)**

Supeï Ma (2014, Advisor): Long-term changes in expression of genes – biomarkers of asthma in mice exposed to diesel exhaust

Supeï Ma (2015, Advisor): Using next gen RNA-seq approach to analyze effects of perinatal tetrabromodiphenyl ethers on murine adipose tissue

Luke Lindaman (2015, Member): Semen quality following US Military deployment to Afghanistan and Iraq: observations and potential implications

Alex Bogdan (2015, Advisor): Analysis of RNA-seq data to discover biological processes altered in the liver of adult rats by developmental exposure to brominated flame retardant BDE-47

Sebnem Eren Cevik (2016, Advisor): Gene expression analysis in the liver of newborn rats exposed in utero to brominated flame retardant BDE-47

Sebnem Eren Cevik (2016, Advisor): Changes in liver histology in adult mice in response to developmental exposure to brominated flame retardant BDE-47.

**PhD Students**

Taniushkin Alexey (1998-2003, Advisor): Micromorphology and functions of male sexual appendages in Hygromiidae (Pulmonata, Mollusca)

Zhiltzov Sergey (1998-2003, Advisor): Functional morphology of accessory structures in reproductive system of Zonitidae (Pulmonata, Mollusca)

Haotian Wu (2016, Member): Comprehensive exam

Gregory Teicher (2016, Advisor): MCB rotation project: Changes in blood-testis barrier integrity in rats exposed perinatally to brominated flame retardant BDE-47

Yingying Geng (2017, Member): MCB prospectus: Nanosensor-based Phenotypic Screening of Cancer Stem Cells for Differentiation Therapy

Haotian Wu (2017, Member): Dissertation defense: Phthalates, Embryo Development, and Sperm DNA Methylation

Alehegne Yirsaw (2018, Member): Comprehensive exam

Monika Roy (2018, Member): Comprehensive exam

Marjorie Pereira Marin (2020, Member): Comprehensive exam

Olatunbosun Orawolo (2020-now, Adviser): COVID19 and chemical exposures: synergy in transcriptional profiles.

Joshua Mogus (2019-now, Adviser of in class project): Developmental Programming of Pituitary in Male Mice by Three Common Environmental Pollutants.

- Graduate student oral presentation award, Northeast Regional Chapter of the Society of Toxicology Annual meeting, 2020

**Postdocs and Visiting Scholars**

Mikhail Panchenko/Parker (2014-2015, Advisor): Long-lasting effects of developmental exposure to 2,2',4,4'-tetrabromodiphenyl ether on liver metabolic functions in mice

Ahmed Khalil (2016-now, Advisor): Testicular toxicity of perinatal exposure to 2,2',4,4' – tetrabromodiphenyl ether in rats

Saira Amir (2018-2019): Role of mTOR signalling in blood-testis barrier function and DNA-methylation of sperm

**Journal Review****Associate Editor**

Molecular Human Reproduction – journal of the European Society of Human Reproduction and Embryology published by Oxford University Press

**Ad hoc reviewer**

Andrology  
 Basic and Clinical Pharmacology and Toxicology  
 Cell Biology and Toxicology  
 Chemosphere  
 Ecotoxicology and Environmental Safety  
 Environmental Health  
 Environmental Pollution  
 Hormones and Cancer  
 Journal of Applied Toxicology  
 Journal of Toxicology  
 Investigational New Drugs  
 Molecular Human Reproduction  
 Molecular Endocrinology  
 Nature Scientific Reports  
 Neurotoxicology and Teratology  
 Reproduction Fertility and Development  
 The FASEB Journal  
 Toxicology

**Professional Affiliation**

2008 - 2012 Society of Toxicology of Canada  
 2010 - National Education Association  
 2011 - 2017 The Endocrine Society  
 2013 - American Association for the Advancement of Science (AAAS)  
 2013 - Massachusetts Society of Professors  
 2013 - Massachusetts Teachers Association  
 2016 - Society of Toxicology

**Publications in Peer-Review Journals**

\* indicates graduate student coauthors, \*\* indicates undergraduate student coauthors

- 2021** Pilsner J.R., Wu H., Shershebnev A., Medvedeva Y., Parker M\*, **Suvorov A.**, Aging-induced changes in sperm DNA methylation are modified by low dose of perinatal flame retardant. *Epigenomics*; doi: 10.2217/epi-2020-0404 [doi].
- 2021** Oluwayiose O.A\*, Wu H\*, Saddiki H.\*, Whitcomb B.W., Balzer L.B., Brandon N., **Suvorov A.**, Tayyab R., Sites C.K., Hill L., Marcho C\*, Pilsner R.J. Sperm DNA methylation mediates the association of male age on reproductive outcomes among couples undergoing infertility treatment. *Scientific Reports*. Accepted.
- 2021** **Suvorov, A.**, Salemme, V.\*\*, McGaunn, J.\*\*, Poluyanoff, A.\*, Teffera, M.\*\*, Amir, S.\* 2020, Unbiased Approach for the Identification of Molecular Mechanisms Sensitive to Chemical Exposures. *Chemosphere*, 262 (2021) 128362, 1-16, <https://doi.org/10.1016/j.chemosphere.2020.128362>.  
 Covered at:
- <https://www.umass.edu/newsoffice/article/umass-amherst-research-compares>
  - <https://theconversation.com/exposure-to-man-made-chemicals-influences-genes-controlling-aging-immune-system-and-metabolism-146825>
  - <https://www.newsbreak.com/massachusetts/amherst/news/2092225447562/umass-amherst-research-compares-sensitivity-of-all-genes-to-chemical-exposure>
  - <https://www.sciencedaily.com/releases/2020/10/201029171649.htm>

- <https://thedietsworld.com/comparing-sensitivity-of-all-genes-to-chemical-publicity-using-an-unbiased-strategy-scientists-for-the-primary-time-analyzed-greater-than-%C2%BD-million-chemical-gene-interactions/>
  - <https://spaceforce.org.uk/2020/10/29/comparing-sensitivity-of-all-genes-to-chemical-exposure/>
  - <https://newsbeezer.com/malaysia/scientists-are-using-a-new-approach-to-analyze-millions-of-interactions-between-chemicals-and-genes/>
  - <https://www.news-medical.net/news/20201030/Scientists-use-new-approach-to-analyse-millions-of-chemical-gene-interactions.aspx>
  - <https://www.sciencecodex.com/umass-amherst-research-compares-sensitivity-all-genes-chemical-exposure-659852>
  - <https://www.technologynetworks.com/tn/news/scientists-analyze-over-half-a-million-chemical-gene-interactions-342168>
  - <https://www.enn.com/articles/65959-umass-amherst-research-compares-sensitivity-of-all-genes-to-chemical-exposure>
  - <https://hindikhabre.com/evaluating-sensitivity-of-all-genes-to-chemical-publicity-utilizing-an-unbiased-strategy-scientists-for-the-primary-time-analyzed-greater-than-%C2%BD-million-chemical-gene-interactions/>
- 2020** Suvorov A., Pilsner J.R., Naumov V., Shtratnikova V., Zheludkevich A., Gerasimov E., Logacheva M., Sergeyev O., Aging Induces Profound Changes in sncRNA in Rat Sperm and These Changes Are Modified by Perinatal Exposure to Environmental Flame Retardant. *International Journal of molecular Sciences*, 21, 8252; doi:10.3390/ijms21218252.
- 2020** Gomez M.V., Dutta M., Suvorov A., Shi X., Gu H., Eng A., Borenstein E., Mani S., Cui J.Y. 2020. Early life exposure to environmental contaminants (BDE-47, TBBPA, and BPS) produced persistent gut dysbiosis in adult male mice. *Toxicological Sciences*, <https://doi.org/10.1093/toxsci/kfaa161>.
- 2020** Suvorov A., Salemme V., McGaunn J., Poluyanoff A., Amir S.\*, 2020. Data on chemical-gene interactions and biological categories enriched with genes sensitive to chemical exposures. Data in Brief. <https://doi.org/10.1016/j.dib.2020.106398>.
- 2020** Cui J.Y., Suvorov A., Shi X., Gu H., Mani S., 2020, Early life exposure to environmental contaminants (BDE-47, TBBPA, and BPS) produced persistent gut dysbiosis in adult male mice, *Dryad*, Dataset, <https://doi.org/10.5061/dryad.m905qftzn>
- 2020** Suvorov A., Salemme V.\*\*\*, McGaunn J.\*\*\*, Poluyanoff A.\*, Amir S.\*, 2020, Sensitivity of genes, molecular pathways and disease related categories to chemical exposures, *Mendeley Data*, V2, doi: 10.17632/65fcympd2j.2
- 2020** Suvorov, A.; Salemme, V\*\*\*; McGaunn, J\*\*\*; Poluyanoff, A.\*; Teffera, M\*\*\*; Amir, S.\* 2020, Unbiased Approach for the Identification of Molecular Mechanisms Sensitive to Chemical Exposures. *Preprints*, 2020060261 (doi: 10.20944/preprints202006.0261.v1).
- 2019** Suvorov A, Naumov V, Shtratnikova V, Logacheva M, Shershebnev A, Wu H\*, Gerasimov E, Zheludkevich A, Pilsner JR, Sergeyev O. Rat Liver Epigenome Programing by Perinatal Exposure to 2,2',4'4' –Tetrabromodiphenyl Ether. *Epigenomics*, doi: 10.2217/epi-2019-0315
- Covered at:**
- <https://www.umass.edu/newsoffice/article/slow-burn-flame-retardants-perinatal>
  - <https://www.leefbewust.com/hoer-vlamvertragers-het-levermetabolisme-verstoren/#more-1049>
  - <https://www.sciencecodex.com/perinatal-exposure-flame-retardant-alters-epigenome-predisposing-metabolic-disease-636922>
  - <https://www.sciencedaily.com/releases/2019/12/191213115438.htm>
  - <https://scienceblog.com/512737/perinatal-exposure-to-flame-retardant-alters-epigenome-predisposing-metabolic-disease/>
  - <http://healthmedicinet.com/i/perinatal-exposure-to-flame-retardant-alters-epigenome-predisposing-metabolic-disease/>
- 2019** Qi W, Clark JM, Suvorov A, Park Y. 2019. Ivermectin decreases triglyceride accumulation by inhibiting adipogenesis of 3T3-L1 preadipocytes. *Food Chem Toxicol*. 2019 Jun 11;131:110576. doi: 10.1016/j.fct.2019.110576.



- 2019** Intlekofer KA, Clements K, Woods H, Adams H, **Suvorov A**, Petersen SL. 2019. Progesterone receptor membrane component 1 inhibits tumor necrosis factor alpha induction of gene expression in neural cells. *PLoS One*. 2019 Apr 26;14(4):e0215389. doi: 10.1371/journal.pone.0215389. eCollection 2019.
- 2018** Khalil A., Cevik S.E.\*, Hung S.\*, Kolla S.\*, Roy M.A., **Suvorov A**. 2018. Developmental Exposure to 2,2',4,4'-Tetrabromodiphenyl Ether Permanently Alters Blood-Liver Balance of Lipids in Male Mice. *Front. Endocrinol.* 9:548. doi: 10.3389/fendo.2018.00548  
*Part of the research topic Endocrine Disruptors and Metabolism*
- 2018** Abrha A.\*\*\*, Ma S., **Suvorov A**. 2018. Transcriptomic Analysis of Gonadal Adipose Tissue in Male Mice Exposed Perinatally to 2,2',4,4'-Tetrabromodiphenyl Ether (BDE-47). *Toxics*, 6(2), 21: 1-13.  
*Part of special issue Polyhalogenated Aromatic Hydrocarbons*
- 2018** Pilsner J.R., Shershebnov A., Medvedeva Y., **Suvorov A.**, Goltsov A., Loukianov E., Andreeva T., Gusev F., Manakhov A., Smigulina L., Rogaev E., Hauser R., Sergeyev O. 2018. Peripubertal dioxin concentrations and subsequent sperm methylome profiles of young Russian adults. *Reproductive Toxicology*, 78:40-49.
- 2018** **Suvorov A.**, Wu H.\*, Shershebnov A., Medvedeva Y., Parker M., Sergeyev O., Pilsner J.R. 2018. Perinatal Exposure to Low Dose 2,2',4,4'-Tetrabromodiphenyl ether (BDE-47) Alters Sperm DNA Methylation in Adult Rats. *Reproductive Toxicology*, 75:136-143.
- 2017** Wu H.\*, Estill M.S., Shershebnov A., **Suvorov A.**, Krawetz S.A., Whitcomb B.W., Dinnie H., Rahil T., Sites C.K., Pilsner J.R. 2017. Preconception Urinary Phthalate Concentrations and Sperm DNA Methylation Profiles among Men Undergoing IVF Treatment. *Human Reproduction*, 32(11):2159-2169.
- 2017** Lau-Corona D.\*, **Suvorov A.**, Waxman D.J. 2017. Feminization of male mouse liver by persistent growth hormone stimulation: Activation of sex-biased transcriptional networks and dynamic changes in chromatin states. *Molecular and Cellular Biology*, 37(19): e00301-17.
- 2017** Khalil A., Parker M., Brown S.E.\*, Cevik S.E.\*, Guo L.W.\*, Jensen J.\*\*, Olmsted A.\*, Portman D.\*\*, Wu H.\*, **Suvorov A**. 2017. Perinatal Exposure to 2,2',4,4' –Tetrabromodiphenyl Ether Induces Testicular Toxicity in Adult Rats. *Toxicology*, 389:21-30.
- 2017** Khalil A, Parker M, Mpanga R, Cevik SE.\*, Thorburn C\*\*, **Suvorov A**. 2017. Developmental Exposure to 2,2',4,4'–Tetrabromodiphenyl Ether Induces Long-Lasting Changes in Liver Metabolism in Male Mice. *Journal of the Endocrine Society*, 1(4):323-344.  
*Selected for thematic issue 'Endocrine Disrupting Chemicals' of the Endocrine Society journals*
- 2017** Pilsner JR, Parker M, Sergeyev O, **Suvorov A**. 2017. Spermatogenesis disruption by dioxins: Epigenetic reprogramming and windows of susceptibility. *Reproductive Toxicology*, 69:221-229.
- 2017** Heindel JJ, vom Saal FS, Blumberg B, Bovolin P, Calamandrei G, Ceresini G, Cohn BA, Fabbri E, Gioiosa L, Kassotis C, Legler J, La Merrill M, Rizzir L, Machtinger R, Mantovani A, Mendez MA, Montanini L, Molteni L, Nagel SC, Parmigiani S, Panzica G, Paterlini S, Pomatto V, Ruzzin J, Sartor G, Schug TT, Street ME, **Suvorov A**, Volpi R, Zoeller RT, Palanza P. 2017. Correction to: Parma consensus statement on metabolic disruptors. *Environmental Health*, 16(1):130.
- 2017** Hill CE.\*, Sapouckey SA.\*\*, **Suvorov A**, Vandenberg LN. 2017. Developmental exposures to bisphenol S, a BPA replacement, alter estrogen-responsiveness of the female reproductive tract: A pilot study. *Cogent Medicine*, 4: 1317690: 1-20.
- 2016** **Suvorov A**, Vandenberg LN. 2016. To Cull or not to Cull? Considerations for studies of endocrine disrupting chemicals. *Endocrinology*, 57(7):2586-94.
- 2016** Del Pino Sans J, Clements KJ, **Suvorov A**, Krishnan S, Adams HL, Petersen SL. 2016. Developmental exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin may alter LH release patterns by abolishing sex differences in GABA/glutamate cell number and modifying the transcriptome of the male anteroventral periventricular nucleus. *Neuroscience*, 329:239-53.
- 2015** Kim B.\*\*, Colon E.\*\*, Chawla S.\*\*, Vandenberg L.N., **Suvorov A**. 2015. Endocrine Disruptors Alter Social Behaviors and Indirectly Influence Social Hierarchies via Changes in Body Weight. *Environmental Health*, 14(1):64.  
*On the list of Top 10 Articles published in 2015 in Environmental Health. Press coverage: www.societyforscience.org*

- 2015** Heindel JJ, vom Saal FS, Blumberg B, Bovolin P, Calamandrei G, Ceresini G, Cohn BA, Fabbri E, Gioiosa L, Kassotis C, Legler J, La Merrill M, Rizzir L, Machtinger R, Mantovani A, Mendez MA, Montanini L, Molteni L, Nagel SC, Parmigiani S, Panzica G, Paterlini S, Pomatto V, Ruzzin J, Sartor G, Schug TT, Street ME, **Suvorov A**, Volpi R, Zoeller RT, Palanza P. 2015. Parma Consensus Statement on Metabolic Disruptors. *Environmental Health*, 14(1):54.
- 2015** **Suvorov A**, Waxman DJ. 2015. Early Programming of Uterine Tissue by Bisphenol A: Critical Evaluation of Evidence from Animal Exposure Studies. *Reproductive Toxicology*, 57:59-72.
- 2015** Catanese M.C., **Suvorov A.**, Vandenberg L.N. 2015. Beyond a means of exposure: a new view of the mother in toxicology research. *Toxicology Research*, 4:592-612.
- 2013** Yip K.S., **Suvorov A.**, Connerney J., Waxman D.J. 2013. Gene Expression Regulation in Mouse Uterus in Proestrus and Estrus. *Biology of Reproduction*, 89(1):13.
- 2011** **Suvorov A.**, Takser L. 2011. Delayed Frontal Lobes Transcriptome Response to Perinatal Exposure to BDE-47 in Rats. *Journal of Applied Toxicology*, 31(5):477-483.
- 2010** **Suvorov A.**, Bissonnette C.\*\*., Takser L., Langlois M.-F. 2010. Does 2,2',4,4'-tetrabromodiphenyl Ether Interact Directly with Thyroid Hormone Receptors? *Journal of Applied Toxicology*, 31(2):179-84.
- 2010** **Suvorov A.**, Takser L. 2010. Global Gene Expression Analysis in the Livers of Rat Offspring Perinatally Exposed to Low Doses of 2,2',4,4'-tetrabromodiphenyl ether. *Environmental Health Perspectives*, 118(1):97-102.
- 2010** Abdelouahab N., Huel G., **Suvorov A.**, Foliguet B., Thiebaugeorges O., Debotte G., Sahuquillo J., Charles M.-A., Takser L. 2010. Monoamine oxidase activity in human placenta in relation to blood manganese, lead, cadmium, and hair mercury at delivery. *Neurotoxicology and Teratology*, 32(2):256-61.
- 2009** **Suvorov A.**, Battista M.-C.\*., Takser L. 2009. Perinatal Exposure to Low-Dose 2,2',4,4'-Tetrabromodiphenyl Ether affects Growth in Rat Offspring: what is the role of IGF-1? *Toxicology*, 260:126-131.
- 2009** Abdelouahab N., **Suvorov A.**, Pasquier J-Ch., Praud, J-P., Langlois M-F., Takser L. 2009. Thyroid disruption by low dose of flame retardant BDE-47 in prenatally exposed lambs. *Neonatology*, 24;96(2):120-124.
- 2008** **Suvorov A.**, Takser L. 2008. Facing the Challenge of Data Transfer from Animal Models to Humans: the Case of Persistent Organohalogenes. *Environ Health*, 7(1):58.
- 2008** **Suvorov A.**, Girard S\*, Lachapelle S.\*\*., Abdelouahab N., Sebire G., Takser L. 2008. Low-Dose BDE-47 and Hyperactivity in Rat Offspring. *Neonatology*, 95(3):203-209.
- 2006** **Suvorov A.N.** 2006. *Pentadentula balandini* gen. et sp. nov. (Pulmonata Enidae) from W Transcaucasia. *Ruthenica*, 16(1-2): 93-96.
- 2003** **Suvorov A.N.** 2003. A new species and genus of carnivorous slugs (Pulmonata Trigonochlamydidae) from West Transcaucasia. *Ruthenica*, 13(2): 149-152.
- 2003** **Suvorov A.N.** 2003. The Role of Positive Feedback in Formation of Macroevolutionary Trends by the Example of Adaptation of Terrestrial Pulmonates (Mollusca, Gastropoda) to Moist Litter. *Entomological Review*, Vol 83, Suppl. 2.
- 2003** **Suvorov A.N.** 2003. Prospects of Development of Synthetic Theory of Macroevolution. *Bulletin of Ryazan State University*, 1(9): 130-140.
- 2002** **Suvorov A.N.** 2002. A new subgenus and three new species of the genus *Acrotoma* O. Boettger, 1881 (Pulmonata Clausiliidae) from western Transcaucasia. *Ruthenica*, 12(2): 161-166.
- 2002** **Suvorov A.N.** 2002. Prospects of studies of Morphological Variability of land Pulmonate Snails. *Biology Bulletin of Russian Academy of Sciences*, Vol 29, No 5.
- 2001** Zhiltsov S.S.\*., **Suvorov A.N.** 2001. Micromorphology of the distal portion of sexual apparatus of *Aegopis verticillus* (Gastropoda, Pulmonata, Zonitidae) and phylogenetic relations of the genus *Aegopis*. *Ruthenica*, 11(2): 187-196.
- 2001** Taniushkin A.I.\*., **Suvorov A.N.** 2001. Micromorphology and functions of male sexual ducts in the subfamily Trichiinae (Pulmonata Hygromiidae). *Ruthenica*, 11(1): 15-24.
- 2001** **Suvorov A.N.** 2001. Principle of complementarity and modern theoretical biology. *Proceedings of Zoological Society of Ryazan State University*. Ryazan, 84-91.
- 2000** **Suvorov A.N.** 2000. Functional morphology of pneumostomal area in terrestrial Pulmonata (Gastropoda). *Ruthenica*, 10(2): 89-104.

- 1999** Taniushkin A.I.\*, Zhiltsov S.S.\*, **Suvorov A.N.** 1999. A case of occurrence of two darts in upper stylophore in *Xeropicta krynickii* (Pulmonata Hygromiidae). *Ruthenica*, 9(2): 163 – 164.
- 1999** **Suvorov A.N.**, Lanzov V.I. 1999. Fauna and structure of associations of terrestrial molluscs of the Valley of Zolka Juzhnaya River. *Proceedings of KBNC Russian Academy of Sciences*, 3: 57-59.
- 1999** **Suvorov A.N.** 1999. Some mechanisms of adaptation to the wet microhabitats in higher Geophila (Mollusca, Pulmonata). *Journal of general biology*, 60(2): 177 – 188.
- 1999** **Suvorov A.N.** 1999. Functional Interrelations between Aperture Structures and Soft Organs in Lower Geophila. 2. Achatinina. *Russian Journal of Zoology*, 78(5): 528 – 538.
- 1999** **Suvorov A.N.** 1999. Functional Interrelations between Aperture Structures and Soft Organs in Lower Geophila. 1. Pupillina, Oleacinina. *Russian Journal of Zoology*, Vol 3, No 1.
- 1999** **Suvorov A.N.** 1999. The Conflict between Operative and Conservative Subsystems of Organism in the Evolution of Terrestrial Snails (Stylommatophora, Pulmonata). *Russian Journal of Zoology*, Vol 3, No 3.
- 1999** **Suvorov A.N.** 1999. On the nature of the Visceral Hump in Pulmonates (Gastropoda, Pulmonata). *Russian Journal of Zoology*, Vol 3, No 3.
- 1998** **Suvorov A.N.** 1998. Snails of one sixth of the world's dry land (the former USSR). *Tentacle*, 8: 5-7.
- 1996** **Suvorov A.N.** 1996. On the origin of pallial gonoduct in Pulmonata. *Ruthenica*, 6(1): 79.
- 1995** **Suvorov A.N.** 1995. *Arion lusitanicus* – new agricultural pest. *Release Bulletin of Ryazan Center of Scientific-and-Technical information*, N147-97, Series P.68.37.29.
- 1993** **Suvorov A.N.** 1993. Functional morphology of aperture in Pupillina suborder (Gastropoda Pulmonata). *Ruthenica*, 3(2): 141-152.
- 1991** **Suvorov A.N.**, Schileyko A.A. 1991. Functional morphology of aperture armature in subfamily Lauriinae (Gastropoda, Orculidae) and questions of taxonomy of the group. *Ruthenica*, 1(1-2): 67-80.
- 1990** **Suvorov A.N.** 1990. Morpho-functional analyzes of closing apparatus of two clausiliidae species (Gastropoda Pulmonata). *Russian Journal of Zoology*, 70(7): 21-32.

#### Books and Chapters:

- 2019** Sergeyev O.V., **Suvorov A.** Postgenome in andrology. In: Andrology for urologists (in Russian). Moscow, Medcongress, p 322-334.
- 2016** Nikitin A.I., Sergeyev O.V., **Suvorov A.N.**. Adverse Environmental Factors, and Human Endocrine and Reproductive Functions and Epigenome (in Russian). Moscow, Russia: Vavilov Institute of General Genetics of the Russian Academy of Sciences; 346p.
- 2001** **Suvorov A.N.** Mollusca. In: Red Data Book of Ryazan Region, Uzorochie, Ryazan: 185-193.
- 2001** **Suvorov A.N.** Fauna of terrestrial Pulmonata of the surroundings of Teletskoe Lake (Altay Natural Reserve). In: Human Impact on the Nature of Protected Territories, Ryazan: 249-253.
- 2000** Zhiltsov S.S.\*, Taniushkin A.I.\*, **Suvorov A.N.** Terrestrial molluscs of Ryazan region. Institute of Advanced Training, Ryazan; 73p.

#### Science Popularization

- 2020** **Suvorov A.**, 2020. What mechanisms in our cells are the most vulnerable to chemical exposures? The Conversation. In progress.
- 2019** **Suvorov A.**, 2019. Kids exposed to flame retardant PBDE are at risk for lifelong liver or cardiovascular problems. The Conversation. > 21,000 reads.

#### Recent Invited Presentations

- 2021** Unbiased approach for the identification of molecular pathways, organs and disease sensitive to chemical exposures. *Toxicology Program, North Carolina State University (Raleigh, NC, USA)*.
- 2019** Epigenetic changes in spermatozoa induced by age and environmental exposures. Role for IVF outcomes. *Key Aspects of Reproductive Medicine (Moscow, Russia)*.
- 2017** Silent Developmental Neurotoxicity and mTOR Signaling. *Dioxin 2017, Vancouver, Canada*.
- 2016** Developmental Programming of Liver Metabolism by Brominated Flame Retardants via Inhibition of mTOR Signaling. *University of Michigan Medical School, Ann Arbor, MI, USA*.

- 2016** Long-lasting Effects of Perinatal Exposure to Brominated Flame Retardant on Male Reproductive Outcomes. *XXVI International Conference of the Russian Association of Human Reproduction, Moscow, Russia.*
- 2016** Spermatogenesis Disruption by Dioxins: Epigenetic Reprograming. *International Workshop Genetic and Epigenetic Markers of Environmental Exposure. Institute of General Genetics, Moscow, Russia.*
- 2016** Long Term Changes in Testis Transcriptome in Rats Following Perinatal Exposure to BDE-47. *International Workshop Genetic and Epigenetic Markers of Environmental Exposure. Institute of General Genetics, Moscow, Russia.*
- 2015** Epigenetic Programming by Hormones and Hormone Mimics. *International Workshop in Environmental Epidemiology and Toxicology. Institute of General Genetics, Moscow, Russia.*
- 2014** Developmental Exposure to PBDE and Metabolism Reprograming via mTOR Pathway. *International Workshop in Genomics and Epigenomics. Institute of General Genetics, Moscow, Russia.*
- 2014** Snails, PBDE and mTOR. *Total Science Tuesday, UMass.*
- 2014** Endocrine disruption by PBDE: Do we find what we look for? *Hormones for Breakfast, UMass.*
- 2014** Epigenetic Programming of Tissues by Hormones and Hormone-Like Substances. *Molecular and Cellular Biology Colloquium, UMass.*
- 2013** Neuro-Behavioral Effects of Environmental Endocrine Disruptors across Levels of Life Organization. *Biology Talent Advanced Program (BioTAP), UMass*
- 2013** Epigenetic programming of tissues by hormones and hormone-like substances. *Woods Hole Oceanographic Institution, USA*
- 2012** Developmental Toxicity of Endocrine Disruptors: a Genomic and Epigenetic Approach. *Department of Public Health University of Massachusetts, Amherst, USA.*
- 2010** Anchoring Neurodevelopmental Effects of Low Dose Exposure to PBDE in Altered Molecular Pathways. *Biology Department, University of Massachusetts, Amherst, USA.*
- 2009** Low Dose Developmental Toxicity of 2,2',4,4'-Tetrabromodiphenyl Ether: from Health Effects to Underlying Molecular Mechanisms. *Department of Pharmacology & Therapeutics, McGill University, Montreal, Canada.*
- 2009** Global gene expression analysis in liver of rat offspring exposed perinatally to low dose of BDE-47. *3e journée Axe Mère-Enfant, Université de Sherbrooke, Canada*
- 2008** Data transfer from animal models to human studies in developmental toxicology: what is the challenge? Case of persistent organohalogenes. *International Symposium on Neurobehavioral Methods and Effects in Environmental and Occupational Health, San Jose, Costa Rica.*

#### Recent Conference Presentations

- 2021** Andrology, Virtual (1 oral)
- 2020** Society of Toxicology, Virtual (2 posters, 2 oral)
- 2020** Northeast Regional Chapter of the SOT, Virtual (1 oral, 2 posters)
- 2019** Society of Toxicology, Baltimore, USA (3 posters)
- 2019** Northeast Regional Chapter of the SOT, Boston, USA (3 posters)
- 2018** Brominated Flame Retardants, Niagara-on-the-Lake, Canada (1 oral)
- 2018** Society of Toxicology, San Antonio, USA (1 poster)
- 2020** Northeast Regional Chapter of the SOT, Boston, USA (1 poster)
- 2017** American Society of Andrology, Miami, USA (1 poster)
- 2017** Society of Toxicology, Baltimore, USA (2 posters)
- 2017** Endocrine Society, Boston, USA (1 poster)
- 2016** NIEHS Obesity Grantee Meeting, Bethesda, DC (1 poster)
- 2016** Gordon Research Conference: Environmental Endocrine Disruptors, Newry, ME (1 poster)
- 2016** UMass 5-campus Center for Clinical and Transnational Science 6th Annual Research Retreat, Worcester, MA (2 posters)
- 2015** Shaping the Future of Food Safety Together, Milan, Italy (1 poster)

- 2015** Global regulatory Summit: Regulatory Bioinformatics, Parma, Italy (*1 poster*)  
**2015** FASEB Conference: Protein Kinases and Protein Phosphorylation, Chicago, USA (*1 poster*)  
**2015** 96<sup>th</sup> Annual Meeting of AAAS Pacific Division, San-Francisco, USA (*1 oral*).  
**2015** The Growth Hormone/Prolactin Family in Biology and Disease, Steamboat Springs, CO, USA (*1 poster*).  
**2015** ENDO, San-Diego, USA (*1 poster*).  
**2014** Genomics and Epigenomics, Moscow, Russia (*1 oral*).  
**2014** Perinatal Programming and Toxicity IV, Boston, USA (*1 poster*).  
**2014** Gordon Research Conference: Environmental Endocrine Disruptors, Lucca, Italy (*1 poster*).  
**2013** ICB3 Annual meeting, Amherst, USA (*1 oral*).  
**2012** 44<sup>th</sup> Annual Symposium of The Society of Toxicology of Canada, Montreal, Canada (*1 poster*).  
**2012** Women's Reproductive Environmental Health Consortium, NIEHS, USA (*1 oral*).  
**2012** BPA Grantee Research Update and Coordination Meeting, NIEHS, USA (*1 poster*).  
**2011** 43<sup>rd</sup> Annual Symposium of The Society of Toxicology of Canada, Montreal, Canada (*1 oral*).  
**2011** 12<sup>th</sup> Annual Workshop on Brominated Flame Retardants, Boston, USA (*1 oral*).  
**2011** 93<sup>rd</sup> Annual Meeting of Endocrine Society, Boston, USA (*1 poster*).  
**2009** 11<sup>th</sup> Annual Workshop on Brominated Flame Retardants, Ottawa, Canada (*1 poster*).  
**2009** 3e journée Axe Mère-Enfant, Université de Sherbrooke, Canada (*1 invited*).  
**2008** 40<sup>th</sup> Annual Symposium of the Society of Toxicology of Canada, Montreal, Canada (*1 poster*).  
**2008** International Symposium on Neurobehavioral Methods and Effects in Environmental and Occupational Health, San Jose, Costa Rica (*1 invited, co-chair of mini-symposium*).  
**2008** 47<sup>th</sup> meeting of Canadian Society of Zoologists, Halifax, Canada (*1 oral*).  
**2008** 28<sup>th</sup> Annual Meeting of Society for Maternal-Fetal Medicine, Dallas, TX, USA (*1 poster*).  
**2007** The Sixth Princess Chulabhorn International Science Congress (PC-VI): The Interface of Chemistry and Biology in the "Omics" Era: Environment & Health and Drug Discovery, Bangkok, Thailand (*1 poster*).  
**2007** Congr s Armand-Frappier, Mont Orford, Canada (*1 oral, 2 posters*).  
**2007** XI International Congress of Toxicology, Montreal, Canada (*1 poster*).  
**2007** 46<sup>th</sup> meeting of Canadian Society of Zoologists, Montreal, Canada (*1 oral*).

### Recent Meetings and Courses Attended

- 2013/21** Neuroscience & Behavior weekly seminar, *UMass, USA*  
**2013/21** Molecular & Cellular Biology weekly seminar, *UMass, USA*  
**2010/21** Ecology, Behavior, and Evolution weekly seminar, *Boston University, USA*  
**2010/12** Systems and Integrative Biology weekly seminar, *Boston University, USA*  
**2011/12** Science Shaping our World (SHOW) seminar series, *Boston, USA*  
**2011** 3<sup>rd</sup> Annual Epigenetics World Congress, *Boston, USA*  
**2010** Applications in bioinformatics (BF527), *Boston University, USA*  
**2010** BPA Grantee Research Update and Coordination Meeting, *NIEHS, USA*  
**2010** 2<sup>nd</sup> Annual Epigenetics World Congress, *Boston, USA*  
**2009** The International Implications of the US National Research Council's Report on Toxicity Testing in the 21st Century: Challenges and Opportunities in Implementation, *Ottawa, Canada*  
**2009** Rendez Vous Prot omique: From Proteomics to Systems Biology, *Genome Quebec and McGill University Innovation Centre, Montreal, Canada*  
**2009** Rendez-Vous FlexArray2009 (quality control, visualization, and analysis of gene expression data with help of the FlexArray), *Genome Quebec and McGill University Innovation Centre, Montreal, Canada*  
**2008** Analyse de risques  cotoxicologiques (ENV 789), *Universit  de Sherbrooke, Canada*  
**2007** The Use of "Omics" in Human Health Risk Assessment, *Bangkok, Thailand*  
**2006** Hazardous Substances in Goods: Sources, Properties and EU Legislation, *BASF, Germany*

### Recent and Current Funding

1 R21 ES029686-01A1  
 Suvorov, Alexander (mPI), Whitcomb, Brian (mPI), Takser, Larissa (mPI)  
 04/01/2019 – 03/30/2021

Programming Effects of Flame Retardants on Lipid Metabolism in a Longitudinal Birth Cohort  
Role: multi-PI

1R01ES028214-01, NIEHS

Pilsner, Richard (PI)

09/01/2017 – 08/31/2022

Male preconception phthalates and offspring embryo and sperm allele-specific methylome programming

Role: Co-Investigator

R01-ES028298

Pilsner, Richard (PI)

08/15/2018 – 05/31/2023

Paternal preconception phthalates and reproductive health - potential mediation through sperm DNA methylation

Role: Co-Investigator

R01-ES030942

Pilsner, Richard (PI)

08/01/2019 – 07/31/2022

Determining how preconception exposure to phthalates impacts sperm function, the epigenome and early-life development

Role: Co-Investigator

1R21ES026778, NIEHS

Pilsner, Richard (PI)

07/30/16-08/01/18

Embryonic inheritance of sperm methylome after adult exposure to phthalates

Role: Co-Investigator

Dean's Research Enhancement Award, School of Public Health and Health Sciences, University of Massachusetts, Amherst

Suvorov, Alexander (PI)

01/23/17-01/23/18

Molecular Mechanisms of Liver Metabolism Programming by Brominated Flame Retardants

Role: PI

14-045-00065, Vavilov Institute of General Genetics of the Russian Academy of Sciences

Alexander Suvorov (PI)

10/01/14-12/31/15

Developmental reprogramming of DNA methylome in sperm and somatic tissues of rats by environmental endocrine disruptors

Role: PI

S-RS500-16-CA-181, US Embassy Moscow, Department of State

Suvorov, Alexander (PI)

12/08/16-09/29/17

Shaping the future of chemical safety together

Role: PI