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Education

Ph.D. Biology, University of Oregon (March 2005)
B.S. Degrees: Genetics and Bacteriology, University of Wisconsin-Madison (May, 1998)

Research History

06/2010-Present

Scientist – Hospital for Sick Children, Program in Developmental and Stem Cell Biology
New Investigator – Ontario Institute for Cancer Research, Cancer Stem Cell Program
Assistant Professor - University of Toronto, Department of Molecular Genetics, Toronto, Ontario, Canada

05/2005-05/2010 Advisor: Dr. Alejandro Sánchez Alvarado

Postdoctoral Fellow
Howard Hughes Medical Institute
Department of Neurobiology and Anatomy
University of Utah, Salt Lake City, UT, USA

Adult stem cells and tumorigenesis in Planarians

08/1999-05/2005 Advisor: Dr. Chris Q. Doe

Graduate Student
Howard Hughes Medical Institute
Institutes of Molecular Biology and Neuroscience
University of Oregon, Eugene, OR, USA

Temporal identity in *Drosophila* neuroblast lineages

05/1998-08/1999 Advisor: Dr. Nansi Jo Colley

Laboratory Technician
Department of Ophthalmology
University of Wisconsin-Madison, Madison, WI, USA

Potassium-dependent sodium/calcium exchangers in *Drosophila* development

05/1997-05/1998 Advisor: Dr. Sean B. Carroll

Undergraduate Research
Howard Hughes Medical Institute
Department of Genetics
University of Wisconsin-Madison, Madison, WI, USA

Evolution of butterfly wingspot patterns

Funding

2013-2018 CIHR Operating Grant (MOP-130294, \$140,432 per year)
2011-2016 NSERC Discovery Grant (RGPIN 402264/11, \$30,000 per year)
2010-2015 OICR New Investigator Award – Cancer Stem Cell Program (#IA-026, \$120,000 per year)
2013-2015 OICR PRAR Award – Cancer Stem Cell Program (\$50,000 per year)

- 2010-2012** OICR PRAR Award – Cancer Stem Cell Program (\$87,000 per year)
- 2008-2010** HHMI Research Associate (\$42,000 per year)
- 2005-2008** **Damon Runyon Cancer Research Foundation**, Post-doctoral Fellowship (DRG 1888-05, \$43,000 per year)
- 2001-2004** **NSF IGERT** Training Grant (DGE 9972830, \$24,000 per year)

Awards and Honors

- 2014** CIHR Early Career Award in Cancer (\$25,000)
- 2014** SSuRe summer program subsidy (\$2000)
- 2010** OICR New Investigator Award (\$1.25M)
- 2006** Damon Runyon Image Contest
- 2006** Larry Sandler Graduate Thesis Award Runner Up
- 2005** Harold M. Weintraub Graduate Research Award (Given by Fred Hutchinson Cancer Research Center, \$500)

Teaching

University of Toronto

- Fall 2014:** Guest Lecture, course: “Signal Transduction”
- Summer 2014:** Guest speaker: SickKids summer research program career night
- Summer 2014:** Guest Lecture: MoGen summer student research program
- Fall 2015-2019 (odd # years):** Course: “Experimental Techniques in Developmental Biology”
- Spring 2014-2018 (even # years):** Course: JDB1025H “Developmental Biology”
- Spring 2011-present:** Guest Lecture, Course: HMB321H1S “Topics in Genetics”
- Fall 2010-2012:** Course: MMG1015Y

University of Oregon

- Fall 2002, Guest Lecture** “Evolution of Invertebrate Nervous Systems”
- Winter 2001** “Developmental Biology”, teaching assistant
- Spring 2000** “Animal Behavior”, teaching assistant
- Winter 2000** “Introductory Biology”, teaching assistant

University of Wisconsin-Madison

- Fall 1996-Spring 1998** Racquetball class teaching assistant

Service

- 2014-present** Chair of Trainee Startup Fund (TSUF) awards
- 2013-present** Committee for graduate student recruitment
- 2012-2014** Reviewer for Trainee Startup Fund (TSUF) awards
- 2011-2015** Co-organizer of the Program in Developmental and Stem Cell Biology seminar series
- 2013/2014** DSCB hiring committee for new Scientist positions
- 2011-2013** Co-organizer of the Department of Molecular Genetics annual retreat
- 2010-2013** Co-organizer of the Ontario Stem Cell Initiative (OSCI) seminar series
- 2013** Guest speaker: SickKids Foundation annual golf tournament fundraiser
- 08/2012** Co-organizer of Flatworm Symposium at the European Evo-Devo Meeting, Lisbon, Portugal
- 2006-2010** Co-founder of the Utah Life Sciences Post-doc Organization (ULSPO, ulspo.utah.edu)
- 2003** Organizer: IGERT Symposium “Evolution of Gene Expression”, Eugene, Oregon

Research Articles

- 22. Sánchez Alvarado, A., et. al. (2015)

“The gene repertoire of the planarian *Schmidtea mediterranea* reveals extensive kinship with deuterostome genomes”

In preparation

21. Zhu, SJ, Hallows, S., Currie, KW, and **Pearson, BJ** (2015)

“*mex3-1* drives asymmetric cell fate outcomes in planarian adult stem cell lineages”

In review at eLife

20. Burrows, JTA, **Pearson, BJ**, and Scott, IC (2015)

“A conserved requirement for the Mediator component Med14 in the maintenance of stem cell populations”

In Press at Stem Cell Reports

19. Talbot, JA, Currie, KW, **Pearson, BJ**, and Collins, EMS (2014)

“*Smed-dynA-1* is a planarian nervous system specific *dynamain 1* homolog required for normal locomotion”

Biology Open 3:627-634.

18. Alex Y.T. Lin and **Bret J. Pearson** (2014)

“The pleiotropic roles of *yorkie/YAP* in planarian biology”

Development 141:1197-1208.

17. Martis W. Cowles, David D.R. Brown, Sean V. Nisperos, Brianna N. Stanley, **Bret J. Pearson**, and Ricardo M. Zayas (2013)

“Genome-wide analysis of the bHLH gene family in planarians identifies factors required for adult neurogenesis”

Development 140:4691-4702.

16. Ko W. Currie and **Bret J. Pearson** (2013)

“Cilia-driven locomotion in planarians requires serotonergic neurons specified by *lhx1/5-1* and *pitx* transcription factors”

Development 140:3577-3588.

15. Zhu, SJ., **Pearson, BJ** (2012)

“Retinoblastoma is required for stem cell maintenance in planarians”

Developmental Biology 373:442-453.

14. Labbé, RM., Irimia, M., Currie, KW., Lin, A., Zhu, SJ., Brown, DDR., Ross, EJ., Voisin, V., Bader, GD., Blencowe, BJ., **Pearson, BJ** (2012)

“A comparative transcriptomic analysis reveals conserved features of stem cell pluripotency in planarians and mammals”

Stem Cells 30:1743-1745.

13. Bocchinfuso, DG., Taylor, P., Ross, E., Ignatchenko, A., Ignatchenko, V., Kislinger, T., **Pearson, BJ.**, Moran, MF. (2012)

“Proteomic profiling of the planarian *Schmidtea mediterranea* and its mucous reveals similarities with human secretions and those predicted for parasitic flatworms”

Molecular and Cellular Proteomics 11:681-91.

12. Tu, KC, **Pearson, BJ**, Sánchez Alvarado, A. (2012)

“TORC1 is required to balance cell proliferation and cell death in planarians”

Developmental Biology 365:458-69.

11. **Bret J. Pearson** and Alejandro Sánchez Alvarado (2010)

“A Planarian p53 Homolog Regulates Proliferation and Self-Renewal in Adult Stem Cell Lineages”

Development 137:213-221.

10. **Bret J. Pearson***, George T. Eisenhoffer*, Kyle A. Gurley*, Jochen C. Rink*, Diane E. Miller, and Alejandro Sánchez Alvarado (2009)

“A Formaldehyde-based Whole-Mount In Situ Hybridization Method for Planarians”

Developmental Dynamics 238:443-450.

9. Oviedo, NJ, **Pearson, BJ**, Levin, M and Sánchez Alvarado, A (2008)

“Planarian PTEN homologs regulate stem cells and regeneration through TOR signaling”

Disease Models and Mechanisms 1:131-143.

8. Haruki Ochi, **Bret J. Pearson**, Pao-Tien Chuang, Matthias Hammerschmidt and Monte Westerfield (2006)
 “Hhip regulates zebrafish muscle development by both sequestering Hedgehog and modulating localization of Smoothened”
Developmental Biology 297:127-140.
7. Grosskortenhaus, R., **Pearson, B.J.**, Marusich, A., and CQ Doe (2005)
 “Regulation of temporal identity transitions in *Drosophila* neuroblast lineages”
Developmental Cell, 8(2):193-202.
6. Robert J. Winkfein, **Bret Pearson**, Judson Barkhurst, Rebecca Wardl, Robert T. Szerencsei, Nansi J. Colley, and Paul P.M. Schnetkamp (2004)
 “Molecular Characterization, Functional Expression and Tissue Distribution of a Second NCKX Na⁺/Ca²⁺-K⁺ Exchanger from *Drosophila*”
Cell Calcium 36(2):147-55.
5. **Pearson, B.J.**, and CQ. Doe (2003)
 “Regulation of neuroblast competence in *Drosophila*”
Nature 425:624-628.
4. Takako Isshiki, **Bret Pearson**, Scott Holbrook, and Chris Q. Doe (2001)
 “*Drosophila* Neuroblasts Sequentially Express Transcription Factors which Specify the Temporal Identity of Their Neuronal Progeny”
Cell 106:511-521.
3. Pierce-Shimomura Jonathan T. Faumont Serge. Gaston Michelle R. **Pearson Bret J.** Lockery Shawn R (2001)
 “The homeobox gene lim-6 is required for distinct chemosensory representations in *C. elegans*”
Nature 410:694-698.
2. Haug-Collet K. **Pearson B.** Webel R. Szerencsei R T. Winkfein R J. Schnetkamp P M. Colley N J (1999)
 “Cloning and characterization of a potassium-dependent sodium/calcium exchanger in *Drosophila*”
Journal of Cell Biology 147(3):659-669.
1. Keys David N., Lewis David L., Selegue Jane E., **Pearson Bret J.**, Goodrich Lisa V., Johnson Ronald L., Gates Julie, Scott Matthew P., Carroll Sean B (1999)
 “Recruitment of a hedgehog regulatory circuit in butterfly eyespot evolution”
Science 283:532-534.

Review Articles and Book Chapters (all peer-reviewed)

4. David D. R. Brown and Bret J Pearson (2015)
 “One FISH, dFISH, three FISH: Sensitive methods of whole-mount fluorescent *in situ* hybridization in freshwater planarians”
Book Chapter: Neuromethods: In situ hybridization methods, Springer Science
3. **Pearson, B.J.** and Sánchez-Alvarado, A. (2009)
 “Regeneration, Stem cells and the Evolution of Tumor Suppression”
Cold Spring Harbor Annual Symposium Vol. 73 *Control and Regulation of Stem Cells*.
2. **Pearson, B.J.** and C.Q. Doe (2004)
 “Specification of temporal identity in the developing nervous system”
Ann. Rev. Cell Dev. Bio. Vol. 20:619-647.
1. Webel R, Haug-Collet K, **Pearson B**, Szerencsei RT, Winkfein RJ, Schnetkamp PP, Colley NJ (2002)
 “Potassium-Dependent Sodium-Calcium Exchange through the Eye of the Fly”
Ann N Y Acad. Sci. 976:300-14.

Invited Talks

2015

- Iowa State Univ., Dept. of Genetics, Development, and Cell Biology, Ames, IA, USA
- Laval University Cancer Research Center, Quebec City, QC, Canada
- Ottawa Hospital Research Institute, Ottawa, ON, Canada

2014

- Department of Molecular Genetics Summer Student Seminars, Toronto

2013

- CHRI University of Western Ontario, London, ON, Canada
- Ontario Institute for Cancer Research Retreat, Toronto, ON, Canada
- Ontario Stem Cell Initiative, Toronto, ON, Canada
- Model Animal Research Center, Nanjing University, Nanjing, China
- SIBCB-Chinese Academy of Sciences, Shanghai, China
- North American Planarian Meeting, Kansas City, MO, USA

2012

- University of Calgary, Dept. of Biochemistry and Molecular Biology, Calgary, Canada
- Molecular Genetics and Microbiology Undergraduate Student Union seminars, Toronto
- Society for Developmental Biology, Montreal, Canada
- European Evo-Devo meeting, Lisbon, Portugal
- Guest Lecture for course: "Functional Genomics and Systems Biology" Cambridge, UK
- Ontario Institute for Cancer Research Retreat, Barrie, ON, Canada
- San Diego State University, Dept. of Biology, San Diego, CA, USA
- Canadian SDB meeting, Banff, Alberta, Canada

2011

- Hospital for Sick Children DSCB Program Retreat, Toronto, ON, Canada
- Ontario Stem Cell Initiative Seminar Series, Toronto, ON, Canada

2010

- Hospital for Sick Children Retreat, Toronto, ON, Canada
- Department of Molecular Genetics Retreat, Barrie, ON, Canada
- Ontario Institute for Cancer Research seminar, Toronto, ON, Canada
- Department of Molecular Genetics seminar, Toronto, ON, Canada

2009

- Hospital for Sick Children, Toronto, ON, Canada
- Fred Hutchinson Cancer Research Center, Seattle, WA, USA
- University of Washington – Genome Sciences, Seattle, WA, USA
- University of Michigan – Life Sciences Institute, Ann Arbor, MI, USA

2008

- North American Conference on Planarians, Chicago, IL, USA
- Keystone Symposium: Tumor Suppressors and Stem Cell Biology, Vancouver, Canada

2007

- Damon Runyon Fellows' Retreat, Marshall, CA, USA

2005

- Fred Hutchinson Cancer Research Center, Seattle, WA, USA

Reviewer for Journals

Cell, Neuron, PLoS Genetics (9), PLoS One (4), Genes and Development, Development (7), Developmental Biology (2), Cell Reports, Stem Cell Reports, Stem Cells and Development, Trends in Cell Biology, BMC Biology, BMC Developmental Biology (2), BMC Evolutionary Biology, Cell Death and Disease, Gene, Trends in Genetics, Stem Cell Reviews and Reports, Molecular and Biochemical Parasitology, Gene Expression Patterns, Genes and Genomics, Molecular Reproduction and Development, Comparative Biochemistry and Physiology.

Reviewer for Grants

2015: CIHR fellowship committee for post-PhD awards

- 2015:** NSERC AdHOC expert reviewer for 2 grant proposals
- 2014:** OSCI “New Ideas Grant” AdHOC expert reviewer
- 2014:** Wellcome Trust AdHOC expert reviewer
- 2014:** NSERC AdHOC expert reviewer for 4 grant proposals
- 2012:** Expert reviewer for Ministry of Science and Technology grant, India
- 2012:** NSERC expert reviewer for 1 grant proposal
- 2012-present:** Spring and Fall competitions: Trainee Startup Fund (TSUF), SickKids
- 2010-present:** AdHOC internal peer reviewer at SickKids for 6 grant proposals

Professional Associations

- Ontario Institute for Cancer Research (OICR)*
- Collaborative Program in Developmental Biology (U of Toronto)*
- International Society for Stem Cell Research (ISSCR)*
- Society for Developmental Biology (SDB)*
- Ontario Stem Cell Initiative (OSCI)*

Committees (advisor)

- 03/2015-present:** PhD thesis committee for Alyssa Molinaro (Pearson)
- 03/2015-present:** PhD thesis committee for Greg Chernomas (Boulianne)
- 07/2014:** PhD thesis defense for Mark Zander (Miller)
- 03/2014-present:** MSc committee for Timothy Liao (van der Kooy)
- 06/2014:** MSc thesis defense committee for Gowtham Jayakumaran (Wrana)
- 06/2014:** PhD thesis defense chair for Michael Velec (Medical Science)
- 06/2014:** PhD re-class committee for Pietro Sollazzo (Irwin)
- 05/2014:** PhD re-class committee for Javier Hernandez (Wrana)
- 05/2014:** PhD re-class committee for Eric Chapman (Derry)
- 03/2014-present:** PhD committee for Shujun Zhu (Pearson)
- 03/2014-present:** MSc committee for Xinwen He (Pearson)
- 03/2014-present:** MSc committee for Mike Pryszlak (Pearson)
- 01/2014:** PhD thesis defense committee for Mary Rose Bufalino (van der Kooy)
- 09/2013-present:** MSc committee for Pricilla Tang (Varmuza)
- 09/2013:** PhD thesis defense committee for Loksum Wong (Tropépe)
- 07/2013:** PhD re-class committee for Meg Mendoza (Ciruna)
- 06/2013-present:** PhD committee for Jordan Young (Durocher)
- 06/2013:** PhD re-class committee for Elizabeth Guzman (Nieman)
- 04/2013:** PhD re-class committee for Qin Liang (Nagy)
- 11/2012:** MSc thesis defense committee for Monica Clifford (Moghal)
- 09/2012:** PhD re-class committee for Sabiha Hacibekiroglu (Nagy)
- 06/2012:** PhD re-class committee for Alex Seong (Irwin)
- 05/2012:** PhD re-class committee for Ashish Deshwar (Scott)
- 05/2012:** PhD re-class committee for Fiona Coutinho (Dirks)
- 04/2012:** PhD thesis defense chair for Lindsay Baker (Biochemistry)
- 03/2012-present:** PhD committee for David Brown (Pearson)
- 03/2011-present:** PhD committee for Alex Lin (Pearson)
- 03/2011-present:** PhD committee for Ko Currie (Pearson)
- 03/2011-present:** PhD committee for Gianluca Amadei (Miller/Kaplan)
- 03/2011-08/2012:** MSc committee and defense for Donald Bocchinfuso (Moran)
- 01/2011:** MSc thesis defense committee for Daniel Lustig (Irwin)

Mentoring

- 10/2014 – present:** Mentor for 2nd year MoGen undergraduate specialist Toshi Kawamata
- 05/2014 – present:** Supervisor for undergraduate summer and 4th year projects for Vivian Jiang

09/2013 – 08/2014: Mentor for 2nd year MoGen undergraduate specialist Arielle Beaudry
05/2012 – 05/2013: Supervisor for undergraduate 4th year project for Duygu Cevik

Trainee Awards

09/2104-08-2015: **Alyssa Molinaro** CIHR Canada Graduate Scholarship-Master's (\$17,500)
09/2014-08/2015: **Xinwen He** University of Toronto Open Fellowship (\$12,000)
09/2014-08/2017: **Shujun Zhu** Restracom (\$66,000)
09/2014-08/2015: **Michael Pryszlak** CIHR Canada Graduate Scholarship-Master's (\$17,500)
07/2013: **Alex Lin** SickKids Research Training Centre travel award (\$1000)
09/2013-08/2015: **Ko Currie** Ontario Graduate Scholarship (\$30,000)
06/2013: **Ko Currie** Best Poster award at CPDB retreat (\$250)
06/2013: **Alex Lin** Poster award at CPDB retreat (\$100)
04/2013: **Alex Lin** School of Graduate Studies travel award (\$770)
04/2012-03/2015: **David Brown** CIHR PhD graduate fellowship (\$90,000)
05/2011-04/2016: **Alex Lin** Restracom (\$100,000)
09/2011-08/2012: **Ko Currie** U of T Open Fellowship (\$12,000)

Trainee Presentations

Posters:

2014

“Cilia-driven locomotion in planarians requires serotonergic neurons specified by *lhx1/5-1* and *pitx* transcription factors”

Currie KW and Pearson BJ

7th Canadian Developmental Biology Conference, Mt. Tremblant, QC, Canada

“Planarian Yorkie functions as a crucial node in stem cell maintenance and organ patterning”

Alexander Lin and Bret Pearson

7th Canadian Developmental Biology Conference, Mt. Tremblant, QC, Canada

“Identification of planarian transcription factors required for brain regeneration”

Brown DDR and Pearson BJ

7th Canadian Developmental Biology Conference, Mt. Tremblant, QC, Canada

“Dissecting the homeobox transcription factor code of neuronal specification in the planarian *Schmidtea mediterranea*”

Currie KW and Pearson BJ

The Hospital for Sick Children Scientific Advisory Board Poster Session, Toronto, ON, Canada

“Planarian Yorkie functions as a crucial node in stem cell maintenance and organ patterning”

Alexander Lin and Bret Pearson

Department of Molecular Genetics Annual Retreat, Barrie, ON, Canada

“Dissecting the homeobox transcription factor code of neuronal specification in the planarian *Schmidtea mediterranea*”

Currie KW and Pearson BJ

Department of Molecular Genetics Annual Retreat, Barrie, ON, Canada

“Adult stem cell lineage specification in the flatworm *Schmidtea mediterranea*”
Shu Jun Zhu, Stephanie E. Hallows, Ko W. Currie, Bret J. Pearson
Department of Molecular Genetics Annual Retreat, Barrie, ON, Canada

“The planarian bHLH *hesl-3* is expressed in adult stem cells and plays a role in anterior regeneration”
Brown DDR, Cowles MW, Zayas RM, Pearson BJ
Department of Molecular Genetics Annual Retreat, Barrie, ON, Canada

“The planarian bHLH *hesl-3* is expressed in adult stem cells and plays a role in anterior regeneration”
Brown DDR, Cowles MW, Zayas RM, Pearson BJ
Collaborative Graduate Program in Developmental Biology Annual Retreat, Toronto, ON, Canada

Planarian Yorkie functions as a crucial node in stem cell maintenance and organ patterning
Alexander Lin and Bret Pearson
Collaborative Graduate Program in Developmental Biology Annual Retreat, Toronto, ON, Canada

“Investigating the roles of aPKC and Par6 in pharynx maintenance of planarians”
Alex Lin, Vivian Jiang, Bret Pearson
Department of Molecular Genetics summer student presentation, Toronto, ON, Canada

“Investigating the roles of aPKC and Par6 in pharynx maintenance of planarians”
Alex Lin, Vivian Jiang, Bret Pearson
SickKids SsuRe summer student symposium day, Toronto, ON, Canada

2013

“Investigating the roles of Yorkie in planarian regeneration and homeostasis”
Alexander Lin and Bret Pearson
Keystone Meeting: “The Hippo Tumor Suppressor Network: From Organ Size Control to Stem Cells and Cancer”, Santa Cruz, CA, USA

“Examining the roles of the basic helix-loop-helix gene family in planarian neural regeneration”
Brown DDR, Cowles MW, Nisperos SV, Stanley BN, Zayas RM, Pearson BJ
2013 North American Planarian Meeting, Stowers Institute, Kansas City, MO, USA

“Investigating the roles of Yorkie in planarian regeneration and homeostasis”
Alexander Lin and Bret Pearson
OICR Cancer Stem Cell Program Annual Meeting, Toronto, ON, Canada

“Cilia-driven locomotion in planarians requires serotonergic neurons specified by *lhx1/5-1* and *pitx* transcription factors”
Currie KW and Pearson BJ
Department of Molecular Genetics Annual Retreat, Barrie, ON, Canada

“Investigating the roles of Yorkie in planarian regeneration and homeostasis”
Alexander Lin and Bret Pearson
Department of Molecular Genetics Annual Retreat, Barrie, ON, Canada

“Examining the roles of the basic helix-loop-helix gene family in planarian neural regeneration”
Brown DDR, Cowles MW, Nisperos SV, Stanley BN, Zayas RM, Pearson BJ
Department of Molecular Genetics Annual Retreat, Barrie, ON, Canada

“Examining the roles of the basic helix-loop-helix gene family in planarian neural regeneration”
Brown DDR, Cowles MW, Nisperos SV, Stanley BN, Zayas RM, Pearson BJ
Collaborative Graduate Program in Developmental Biology Annual Retreat, Toronto, ON, Canada

“Cilia-driven locomotion in planarians requires serotonergic neurons specified by *lhx1/5-1* and *pitx* transcription factors”
Currie KW and Pearson BJ
Collaborative Graduate Program in Developmental Biology Annual Retreat, Toronto, ON, Canada

“Investigating the roles of Yorkie in planarian regeneration and homeostasis”
Alexander Lin and Bret Pearson
Collaborative Graduate Program in Developmental Biology Annual Retreat, Toronto, ON, Canada

2012

“Genome-wide analysis of the basic Helix-Loop-Helix gene family in planarians identifies factors involved in neurogenesis”
Cowles MW*, Brown DDR*, Stanley BN, Nisperos SV, Pearson BJ, Zayas RM
Society for Developmental Biology: 71st Annual Meeting, Montreal, QC, Canada

“Maintaining the serotonergic neural network of planarians: the roles of *lhx* and *pitx* homeodomain transcription factors”
Currie KW and Pearson BJ
Department of Molecular Genetics Annual Retreat, Barrie, ON, Canada

“Analysis of the basic Helix-Loop-Helix gene family in the planarian *Schmidtea mediterranea* reveals factors involved in neurogenesis and neural patterning”
Brown DDR, Cowles MW, Stanley BN, Nisperos SV, Zayas RM, Pearson BJ
Department of Molecular Genetics Annual Retreat, Barrie, ON, Canada

“Investigating the roles of Yorkie in planarians”
Alexander Lin and Bret Pearson
Department of Molecular Genetics Annual Retreat, Barrie, ON, Canada

“Investigating the roles of Yorkie in planarians”
Alexander Lin and Bret Pearson
Collaborative Graduate Program in Developmental Biology Annual Retreat, Toronto, ON, Canada

“Maintaining the serotonergic neural network of planarians: the roles of *lhx* and *pitx* homeodomain transcription factors”
Currie KW and Pearson BJ
Collaborative Graduate Program in Developmental Biology Annual Retreat, Toronto, ON, Canada

“Investigating the roles of Yorkie in planarians”
Alexander Lin and Bret Pearson
Annual Ontario Stem Cell Institute Holiday Poster Party

2011

“Neuronal specification and differentiation in the planarian, *Schmidtea mediterranea*”
Currie KW and Pearson BJ.
Department of Molecular Genetics Annual Retreat, Barrie, ON, Canada

“Hippo Signalling in Planarians”

Alexander Lin and Bret Pearson

Department of Molecular Genetics Annual Retreat, Barrie, Canada

Oral Presentations

2013

“Cilia-driven locomotion in planarians requires serotonergic neurons specified by *lhx1/5-1* and *pitx* transcription factors”

Currie KW and Pearson BJ

North American Planarian Meeting, Kansas City, MO, USA

“Investigating the roles of Yorkie in planarian regeneration and homeostasis”

Alexander Lin and Bret Pearson

North American Planarian Meeting, Kansas City, MO, USA