

ANNE F. SIMON

updated Feb 2024

7Western University
Faculty of Science
Biology and Geology Building, room 3022
London, ON

Email: asimon28@uwo.ca
Phone: 1-519-661-2111 X80084
Lab website: <http://simonlab.wixsite.com/simonlab>

EDUCATION

Ph.D., Molecular and Cellular Genetics	University of Paris XI, FRANCE	1998
M.S., Molecular and Genetic Biology	University of Paris XI, FRANCE	1994
B.S., Molecular Biology and Genetics	University of Paris XI, FRANCE	1993

ACADEMIC APPOINTMENTS

Associate Professor, <i>Western University, Department of Biology</i>	<i>July 2022 - Present</i>
Associate Chair (undergraduate) <i>Western University, , Department of Biology</i>	<i>July 2019 – present</i>
Faculty in the Neuroscience Graduate Program <i>Western University, Schulich School of Medicine & Dentistry</i>	<i>July 2015 – present</i>
Associate member of the Brain and Mind Institute <i>Western University</i>	<i>April 2019 – 2021</i>
Assistant Professor, tenure track <i>Western University, , Department of Biology</i>	<i>July 2021 – June 2022</i>
Assistant Professor, limited term <i>Western University, , Department of Biology</i>	<i>July 2013-July 2021</i>
Doctoral Faculty <i>Graduate School and University Center, City University of New York (CUNY)</i>	<i>September 2009-July 2013</i>
Teaching Professor, tenure track <i>CUNY/York College, Biology Department, Jamaica, NY</i> York college of the City University of New York, minority-serving Liberal Arts College	<i>September 2008- July 2013</i>
Adjunct Assistant Professor <i>Santa Monica College, Santa Monica, CA</i>	<i>Spring 2007</i>
Instructor <i>University Marne-La-Vallée, Paris, FRANCE</i>	<i>1995 – 1997</i>

PREDOCTORAL AND POSTDOCTORAL EXPERIENCE

Assistant Research Geneticist <i>UCLA, Brain Research Institute, Laboratory of Dr. David Krantz</i>	<i>July 2004 – August 2008</i>
Research Scientist <i>Cedars-Sinai Medical Center, Laboratory of Dr. Julie Korenberg</i>	<i>May 2003 – May 2004</i>
Postdoctoral researcher <i>California Institute of Technology, Laboratory of Dr. Seymour Benzer</i>	<i>Dec 1998 – May 2003</i>
Graduate Researcher <i>Institute Alfred Fessard, CNRS, Laboratory of Dr. Thomas Pr��at, Paris, FRANCE</i>	<i>Sept 1994 – Dec 1998</i>

PROFESSIONAL AFFILIATIONS

Genetic Society of America (GSA)	<i>1999 – present</i>
International Behavioural and Neural Genetics Society (IBANGS)	<i>2018 – present</i>
International Behavioural Neuroscience Society (IBNS)	<i>2014 – 2023</i>

RESEARCH SUPPORT

CURRENT

Temerty Family Foundation	\$75,000	Jan 2024-Dec 2028
Co-applicant (Lead PI: Michael Strong, total of Grant: \$ 5,000,000) "Amyotrophic Lateral Sclerosis (ALS) Research"		
NSERC Discovery Grant	195,000	April 2022 – April 2027
"Neurogenetic basis of social space determination"		

PAST SINCE @ WESTERN UNIVERSITY

Western Internal Science	\$61,000	Sept 2021- Sept 2023
Start-up research funding provided upon the conversion of my limited term appointment to a probationary (tenure-track)		
Western Interdisciplinary Development Initiatives (IDI)	\$5,000	2021
Co-applicant (Lead PI: Francisco Olea Popelka, total of Grant: \$ 25,000) "Building the Future of Interdisciplinary Research: The Western One Health Network"		
NSERC Discovery Grant with Early Career Research Award	\$245,000	April 2015 – April 2022
<u>Includes an Early Career Research supplement (And COVID extension)</u> "Genetics of social space in <i>Drosophila melanogaster</i> "		
Western Strategic Support for NSERC Success	\$37,000	Aug 2014 – Aug 2015
Includes matching funds from the Faculty of Science and the Biology department		
Western Foundation	\$9,000	Aug 2013 – Aug 2014
Research Support from the Biology Department: supplies, publication costs Facility rental fees		

PAST BEFORE JOINING WESTERN UNIVERSITY

The following four awards are internal funds from the Professional Staff Congress-City University of New York (PSC-CUNY) to support summer research with undergraduate students:

PSC-CUNY Research Award TradA 43	\$3,500	2012 – 2013
PSC-CUNY Research Award TradA 42	\$3,500	2011 – 2012
PSC-CUNY Research Award 41	\$4,000	2010 – 2011
PSC-CUNY Research Award 40	\$4,198	2009 – 2010
CUNY RESO-A school enhancement projects form NYC	\$66,000	2008 – 2012
CUNY GRTI	\$35,000	2008 – 2009
Start-up funds to buy equipment, no consumable could be acquired using these funds.		
<u>NARSAD Young Investigator Award</u>	\$60,000	2007 – 2009
Competitive postdoctoral training grant "Genetics of Aggregation, a Basic Adaptive Social Behaviour in <i>Drosophila</i> "		
UCLA Center for Autism Research and Treatment (CART)	\$35,000	2005 – 2006
Competitive Internal Pilot funds from CART , a National Institutes of Health Autism Center of Excellence (ACE) "Recognition of social contact in <i>Drosophila</i> ". Proposal #10SIM2005.		
UCLA Cousins Center for Psychoneuroimmunology	\$10,000	2005 – 2006
Competitive Internal Postdoctoral Training support: Investigation of the role of the monoamine and steroid pathways in the modulation of behaviour, stress response and immune response in <i>Drosophila</i> .		
American Federation For Aging Research Scholarship	\$70,000	2002 – 2003
Competitive Postdoctoral Research Award: Study of the long-lived mutants of the ecdysone receptor in <i>Drosophila melanogaster</i> .		
The John Douglas French Alzheimer's Foundation	\$35,000	1999 – 2001
Competitive Postdoctoral fellowship: Involvement of steroid hormonal in adult brain degeneration.		
French foundation for medical research	~\$10,000	1998
Competitive scholarship, Final year of Doctoral Research: Study of the role of the <i>Drosophila</i> gene <i>linotte</i> , coding for a tyrosine receptor kinase		
French Ministry of Research	~\$50,000	1994 – 1997
Competitive scholarship. Doctoral research: Study of a gene involved in memory and development of the brain in <i>Drosophila melanogaster</i> : the gene <i>linotte</i> .		

RECOGNITIONS - HONORS

Featured Faculty on the York College publication “Discovery”

Spring 2012

<http://www.york.cuny.edu/academics/academic-affairs>

This publication is based on a Peer selection of Teaching Faculty with exceptional scholarship of discovery and engagement of undergraduate researchers.

The following 4 Awards and Certificate of Appreciation were given for mentoring of high-school and undergraduate students in the Bridge to Research Summer Program of CUNY - York College. Each faculty mentor was allocated a \$1000 summer salary for their participation in the program, and \$500 in research supplies per student mentored.

Award (US \$1000)

Summer 2013

Project mentored: “*Changing the Shape of Chambers Alters the Social Space Between Flies, but not their relative preference.*”

Award (US \$3,500)

Summer 2012

Project mentored: “*Social Behaviour Response to Pharmacological and Genetic Depletion of Dopamine in Drosophila melanogaster.*”

Award (US \$2,500)

Summer 2011

Project mentored: “*Examining the effect of Loss of function and Over Expression of VMAT in social interactions in Drosophila melanogaster.*”

Award (US \$4000)

Summer 2010

Project mentored: “*Comparing the Unknown Sequence of D. grimshawi to that of D. melanogaster*” through the Genome Education Partnership.

Gender Equity Project Grant Writing Assistance Program

Spring 2009

Supported by NSF funding to Hunter College and CUNY Central.

Competitive internal award consisted in reassigned time away from teaching (effectively buying that time from my Institution to pay an adjunct to cover my teaching assignments).

It led to the submission of two NSF grant proposals, including a successful pre-proposal.

Tennenbaum Family Interdisciplinary Center, at the UCLA Neuropsychiatric Institute

July 2003

Winning Research proposal on Human Creativity: *Study of Brain basis of the creative process, using Williams’ syndrome as a model.*

Obtained as a research scientist at Cedar-Sinai Medical Center.

Caltech Office for Minority Students

2002

Certificate of Appreciation from the Freshman Summer Institute for diligent work, enthusiastic participation, and creative thinking in the *Study of the physiology of a long-lived fly: does it live longer?*

COURSES TAUGHT

** Indicates development of new course/lectures,

(WI): writing intensive or essay course

* Indicates development of new material for an existing course

Assistant Professor - Western University, Department of Biology

July 2013 – present

Biology 3316A* Advanced Cell Biology

Biology 4950F*

Seminar in Genetics (WI)

Biology 3596B 3rd year Genetic lab course

Biology 4999E

Honours Thesis (WI)

(Genomes and Beyond WI)

Biology 4970

Independent Studies (WI)

Biology 3597B* Control of Gene Expression

Biology 4971**

Independent Studies (WI)

Biology 3598B* Behavioral Genetics

Assistant Professor - York College, The City University of New York, Jamaica, NY

Sept 2008 – June 2013

Bio 120** Principles of Inheritance and Reproduction

Bio 444**

Advanced Genetics, lectures plus laboratory

Bio 202 Biological Principles II Lab

Bio 487**

Special Topics: Laboratory Exercises in Genetics (WI)

Bio 301** Biological Principles III, Mol. Bio. and

Biotechnology, lectures plus laboratory

Bio 489**

Special Topics in Biotechnology (WI)

Bio 343 Laboratory Exercises in Genetics (WI)

Bio 490-493

Independent Studies

Bio 344 Molecular and General Genetics

Adjunct Faculty - Santa Monica College, Santa Monica, CA

Spring 2007

Introductory Biology for non-majors, including lectures and laboratory.

Instructor - University Marne-La-Vallée, Paris, FRANCE

1995 – 1997

Introductory Cell Biology, lectures plus laboratory **

UNDERGRADUATE AND POSTDOCTORAL TRAINEES

Visiting Scholars

Andrew Scott and Carling Baxter (PhD candidates from Dr. Reuven Dukas' lab, McMaster)	2 days – May 2018
Dr. Monique van der Voet (visiting Postdoctoral Researcher, Radboud University, The Netherlands)	3 weeks – Aug 2016
Dr. Moria Chambers (visiting Postdoctoral Researcher from University Cornell-Ithaca)	1 week – March 2012
Dr. Andrew David (visiting Postdoctoral Researcher from University Arizona)	1 week – April 2012

Graduate researchers

Western University direct supervision (7)

Reza Ataei jaliseh (PhD student)	Jan 24 – present
Micah Evans (MSc Student)	Sept 23 – present
Waliu Alaka (PhD student)	Jan 22 – present
Abigail Bechard (PhD Student)	Sept 23 – present
(MSc Student – OGS in 2021 – Detwiler Award for Best Biology thesis)	Sept 20 – Apr 23
Wes Robinson (PhD Student – Bio TA award 2020 -NSERC CGS-D from 2021 to 24)	Sept 19 – present
(Master Student – OGS recipient & Departmental TA award in 2019)	Sept 17 – Sept 19
Ryley Yost (PhD – OGS recipient in 2018, 19, NSERC CGS-D from 20 to 23)	Sept 17 – Jul 23
Dova Brenman (Master student then technician, now PhD at York University)	Sept 14 – June 17

CUNY - College of Staten Island –co-supervisor

Dr. Kulbir Kaur (now Program Officer - Columbia University Medical Center)	Jan 12 – Jul 13
--	-----------------

Graduate examination committee membership (31)

Western University

<u>Student's Name</u>	<u>Degree</u>	<u>Thesis title</u>	<u>year</u>
Muhammad Sufyan Tahir	PhD	Investigation of HD2 family histone deacetylases relationship in drought stress response and root growth in <i>Arabidopsis thaliana</i>	2022
Christopher Purkis	MSc	Associations between testosterone, androgen receptor polymorphism, and mood	2022
Jolaine Smith	MSc	The role of galectins in differentiation of acute myeloid leukemia cells	2022
Sheng Cheng	PhD	Screens for phenotypic non-specificity of transcription factor function in <i>Drosophila melanogaster</i>	2021
Adriana Diez	PhD	Developmental neurogenesis and myelination of songbird brains: sex differences, hormones and social effects	2021
Gloria Hyun Young Cho	MSc	Is social rank correlated with cognitive ability in black-capped chickadees?	2020
Kevin CJ Nixon	PhD	Mushroom body-specific gene regulation by the SWI/SNF chromatin remodeling complex	2020
Tabashir A Chowdhury	PhD	The <i>fruitless</i> gene influences female mate preference in <i>Drosophila</i>	2019
Maissa Belcina	MSc	The reactivity of ditetrelens towards organophosphorus oxides	2019
Alberto Giovanni Torrez	MSc	Identifying <i>Brachypodium distachyon</i> proteins interacting with histone deacetylase BdHD1"	2019
Alex Szpak	MSc	A role for Shh and Bmp4 in regulating the dorsal-ventral patterning of the developing pharyngeal region	2019
Golnaz Salehipourshirazi	PhD	Adaptation mechanisms of two-spotted spider mite, <i>Tetranychus urticae</i> , to arabidopsis indole glucosinolates	2018
Scott R Hughes	MSc	Developing a sustainable insect pest management system by manipulating plant volatile emissions	2018

<u>Student's Name</u>	<u>Degree</u>	<u>Thesis title</u>	<u>year</u>
Grant Favell	MSc	RNA interference of <i>MDR</i> genes in <i>Leptinotarsa decemlineata</i> and <i>Trichoplusia ni</i> by ingestion of double-stranded RNA	2018
Rachelle L Kanippayoor	PhD	Cellular/molecular analysis of interspecies sterile male hybrids in <i>Drosophila</i>	2017
Ashyad Rayhan	MSc	Exploiting fission yeast genetic interaction data to identify disease-specific drug targets for tuberous sclerosis complex	2017
Justin R Croft	MSc	Tracking behavioural and neuronal responses to social pheromones: Insights from a <i>Drosophila</i> model	2017
Benjamin Kolisnyk	PhD	Cholinergic mechanisms regulating cognitive function and RNA metabolism	2016
Aditi Thakur	MSc	Telomere length variation in preschool children: Associations with chronic family stress, maternal depression, and cortisol reactivity	2016
Margaret Lauren Tindale	MSc	Non-canonical activation of Nrf2 by dimercaptopropanol as a treatment for Huntington's disease	2016
Tin Nok Natalie Cheng	MSc	Females in control: female sensitivity to predation risk affects courtship and reproductive behaviours	2016
Philip Blair Dudeck	MSc	Fear of predators compromises parental care and juvenile survival in a songbird	2016
Joshua J. Frank	MSc	An investigation of the plant growth promoting abilities of <i>Pseudomonas fluorescens</i> uw4 under toxic metal stress	2016
Samantha Koot	MSc	Investigating hox protein requirement for tarsus determination in <i>Drosophila melanogaster</i>	2015
Michael Del Vasto	MSc	Organelle genome evolution within the green algal genus <i>Dunaliella</i>	2015
Muhammad Sufyan Tahir	PhD	Investigation of HD2 family histone deacetylases relationship in drought stress response and root growth in <i>Arabidopsis thaliana</i>	2014
Purvikalyan Pallegar	MSc	Functional analysis of two brassinosteroid responsive, putative calmodulin-binding proteins 60 (cbp60s) in <i>Arabidopsis thaliana</i>	2014
Huzefa Ratlamwala	MSc	Two spotted spider mite (<i>Tetranychus urticae</i>) selection to <i>Arabidopsis thaliana</i>	2014
Michael SJ Inman	MSc	Characterization of the alternative oxidase from the psychrophilic green alga <i>Chlamydomonas</i> sp. UWO241	2013

External Committee Appraiser (for Doctoral students - PhD)

<u>Student's Name</u>	<u>University</u>	<u>Thesis title</u>	<u>year</u>
Azra Hasan	Memorial University of Newfoundland, Canada	An analysis of the mitochondrial fission factor Drp1 along with mitochondrial protection protein in <i>Drosophila</i> models of Parkinson disease	2021
Shuang Qiu	Queen's University Kingston, Ontario, Canada	Involvement of the CNGL channel in locomotor performance and CNS responses to hypoxia in adult <i>Drosophila</i>	2017

Undergraduate researchers (Total: 82)

Western University – honour thesis and independent studies (20)

Haining Liang	(4 th year, Genetics HSP)	Sept 23 – May 24
Emma Nelson	(4 th year, Genetics HSP)	Sept 23 – May 24
Jessika Valera	(4 th year, Genetics HSP)	Sept 23 – May 24
Shayli Babazadeh	(4 th year, Genetics HSP)	Jan 23 – May 23
Micah Evans	(4 th year, Genetics and Psychology dble major – NSERC-USRA recipient)	Jan 23 – May 23
Shauna Morrell	(4 th year, Genetics HSP)	Sept 21 – May 22
Ava Chaplin	(4 th year, One Health program - Award for best presentation at OBD21)	Sept 20-Aug 21
Abigail Bechard	(Now MSC student – NSERC-USRA recipient)	Sept 19 – Aug 20
Mirna Soliman	(Neuroscience BSc, now Academic mentor at Evoke Learning)	Jan 18 – May 20
Megan Steward	(Science Writer / Research Support Officer – Sappani Foundation)	Sept 18 – May 19
Liam Brown	(Bioinformatician at Canadian Food Inspection Agency)	Sept 28 – May 19

Western University – honour thesis and independent studies (continued)

Yen Chan	(Data analyst / Bioinformatician at Verto Health)	Sept 17 – May 18
Zachary Klugman	(Healthcare consultant at MD+A Health Solutions)	Sept 17 – May 18
Jade de Belle	(R&D Specialist at Pure Sunfarms)	Sept 17 – May 18
Tianyi Yan	(then Biology major)	Fall 16 – Winter 17
Ryley Yost	(Now PhD candidate - Western Sci. Undergrad. Pre-thesis Award)	Fall 16 – Summer 17
Vashine Kamesan	(Clinical Research Associate at Mass General Hospital)	Winter 17
Shirley Long	(Multimedia Medical Artist @ Radius Digital Science)	Fall 15 – Winter 16
	Highly Commended Entrant in The Undergraduate Awards (top 10%)	
Sam Jolley	(Pharmaceutical Representative for Impres Pharma Inc.)	Fall 14 – Winter 15
	Award for Best Poster Presentation Ontario Biology Day 2015	
Alison McNeil	(MacMaster Health-Aging MSc and Rehabilitation Science PhD)	Fall 14 – Spring 15
	Award for best presentation at Western Research Day 2015	

Western University - volunteer and paid (42)

Kentaro Nakamura Ramage	(work study – Med Sci)	May 23 – present
Thilliepan Prakashathan	(work study – Biology)	May 23 – present
Khadijat Mosuro	(3 rd -4 th year - WUSRI recipient 22, NSERC-USRA recipient 23)	April 23 – present
Norman Liang	(3 rd year Biology major)	Jan 23 – Jun 2023
Judy Kurbaj	(1 st – 3 rd year biology)	Sept 21 – present
Avneet Sahota	(3 rd -4 th year - WUSRI recipient 22)	Sept 22 – May 2023
Shaunik Sharma	(3 rd -4 th year Synthetic Biology – paid summer research assistant)	Summer 21 – May 22
Eileen Barac	(4 th year Biology – paid research assistant)	Summer 21
Shauna Morrell	(1 st -3 rd year - WUSRI recipient 21)	Fall 19 – Spring 22
Kevin Zhang	(2 nd -3 rd year - WUSRI recipient)	Fall 19 – Fall 20
Ava Chaplin	(3 rd year, One Health program – WUSRI recipient 21)	Sept 19 – August 21
Simran Preet	(work-study – 2 nd -3 rd year)	Fall 19 – present
Jessie Zhang	(2 nd -3 rd year)	Fall 18 – Winter 20
Ramtin Hakimjavadi	(3 rd year – Honors Specialization in Medical Health Informatics)	Spring 18 – Spring 20
Natasha Bauer-Maison	(Medical student at McMaster University)	Summer 18 – Spring 20
Mirna Soliman	(2 nd -3 rd year – Neuroscience major)	Winter 18 – Spring 20
Doug Flannigan	(work-study – 3 rd -4 th year – Inf. Tech. Student at Fanshaw)	Spring 18 – Fall 19
Sol Aletta	(1-3 rd year – Biology major)	Spring 18 – Winter 20
Allen Bao	(MScAC Candidate at the University of Toronto)	Fall 16 – Fall 19
Emerald Liang	(2 nd – 3 rd year – Medical Sciences and Computer Science Major)	Summer 17 - Spring 18
Romy Segall	(2 nd – 3 rd year – Biology Major)	Fall 17 - Spring 18
Jason Lee	(work study – Biology Major)	Fall 16 – Spring 18
Yen Chan	(3 rd year – Genetic Honors Spec.)	Spring 17 – Summer 17
Zachary Klugman	(3 rd year – Genetic Honors Spec.)	Winter 17
Vashine Kamesan	(Clinical Research Associate – PRA Health Sciences)	Fall 16
Jade DeBelle	(3 rd year Biology major)	Winter 15 – 17
Ziad Sabaa-Ayoun	(Biology major – NSERC USRA recipient)	Winter – Summer 16
Ryley Yost	(Biology major – Western Sci. Undergrad. Pre-thesis Award)	Jan-Sept 16, Summer 17
Anthony Bushara	(Computer Science major)	Summer 16
Christopher Leichthammer	(work study – Biology Major)	Summer 16
Arshiya Merchant	(work study – Biology Major)	Fall 15 – Spring 16
Helen Nueves	(From Brazil: Science without Borders Internship)	Summer 15
Curan Kenth	(Biology major)	Summer 15
Shirley Long	(Biomedical Communications MSc @ UoT)	Summer 14 – Spring 15
Tianyi Yan	(Biology major – technician during summer 2015)	Summer 14 – Summer 16
Nicholas Choi	(Medical Doctor @ Ottawa - Western Sci. Pre-thesis Award)	May 14 – Summer 16
Alison McNeil	(Biology major)	Winter 14 – Summer 14
Selwyn Chui	(Clinical Pharmacist @ William Osler Health System)	Summer 14 – Spring 15
Emma Reble	(Genomic Data Science Specialist - Li Ka Shing Knowledge Institute)	Fall 13 – Spring 15
Andrew Greco	(Management Consultant, KPMG)	Fall 13 – Spring 16

York College – CUNY honour thesis (1)

Robert Fernandez	(Post-doc at Columbia University)	Fall 11 – Spring 13
	Paul and Daisy Soros Fellowship for New Americans	
	Alliance/Merck Ciencia (Science) Hispanic Scholarship	

York College – CUNY Independent study students (10)

Adesanya Akinleye	(PhD student at Univ. Mississippi Med. Center)	<i>Fall 2011 – Spring 2013</i>
	<i>Mathematics and Science Teachers (MaST) Scholarship</i>	
	<i>Louis Stokes Alliance for Minority Participation (LSAMP) scholarship</i>	
Marat Nurilov	(Healthcare professiona in NY city)	<i>Spring 2012 – Spring 2013</i>
	<i>York College Summa cum Laude Graduate</i>	
	<i>York College Mathematics Departmental award</i>	
Joana Kutrolli	(Associate Dentist, Tallahassee, FL)	<i>Fall 2012 – Spring 2013</i>
Omar Feliciano	(College Lab. Tech. at York College)	<i>Fall 2012 – Spring 2013</i>
Rita Henry	(Associate Teacher at Bright Horizons at Riverdale)	<i>Spring 2013</i>
Mikhail Khaitov	(Internal Medicine Resident at NYC Health)	<i>Fall 2012</i>
Ahmad Esa	(Pharmacy intern at Grand Pharmacy Corp)	<i>Spring 2012</i>
Zulekha Rouzyi	(Nurse)	<i>Fall 2011 – Summer 2011</i>
Navdeep Saini	(Physician Assistant in General medicine, Kaiser Permanente)	<i>Spring 2010 – Fall 2009</i>
Terriann Nicholson	(Resident Physician at New York-Presbyterian Hospital)	<i>Spring 2009</i>

York College – CUNY Summer Research Initiative (5)

Mikhail Khaitov, Marat Nurilov, Adesanaya Akinleye	<i>Summer 2012</i>
Simone Oliver, Neteva Krider	<i>Summer 2010</i>

UCLA – Volunteer students (3)

Rod Najibi	(Dentist in Greater Los Angeles, CA)	<i>2008</i>
Mordecai Solomon	(Physician in Las Vegas, NV)	<i>2007-08</i>
David Shamouelian	(Physician at UC Irvine Medical Center)	<i>2004-07</i>

UCLA Bridge Summer Research Program (1)

Jackie Chou	(Pharmacist)	<i>2006-08</i>
-------------	--------------	----------------

Caltech Summer Undergraduate Research Fellowship (SURF -2)

Cindy Shih	(Research Assistant at USC)	<i>2000 – 2001</i>
Monica Dus	(Faculty at Ann Arbor – Univ Michigan)	<i>Summer 2001</i>

Caltech Freshman Summer Institute (FSI), for minority students (2)

Gabriel Molina, Noah Davidsohn (Noah is now Co-Founder and CSO at Rejuvenate Bio)	<i>Summer 2002</i>
---	--------------------

High-school students (Total: 13)

Western University (3) co-op from HB Beal High School, London, ON

Sep 2018 – Jan 2020

York College – CUNY Summer Research Initiative (6)

Summer 2012, 10

Caltech (3) Including Antha Mack (co-author on Science paper, now Support Engineer at Flowroute)

2000-2004

PEER-REVIEWED PUBLICATIONS

ORCID# 0000-0002-6509-4541

Google Scholar (12/27/23): H-index: 17, i10-index: 21; citations: 2,180

Hfa (1st or corresponding author h-index): 29.4

Influence – cited on average 1.35 times more than similar papers (iCite ratio: field, journal and timed normalized).

Notes on co-authors:

*graduate student, ** undergraduate student, ***high-school students, under my supervision or #advisement

UNDER REVIEW

- P1. Robinson JW*, Bechard AT*, Frame AK#, Evans M*, Shaunik Sharma**, Alaka W*, Atheby A-C, Lawal HO and **Simon AF**. *The Drosophila adult brain: short overview of structure, function, and resource, Graphical Review*. Current Research in Insect Science (IF 1.9, young journal <2 yrs old). Manuscript ID: CR-IS-D-23-00209
- P2. Yost RT*, Scott AM, Kurbaj JM**, Walshe-Rousell B, Dukas R and **Simon AF**. *Recovery from social isolation requires dopamine in males, but not the autism-related gene nlg3 in either sex*. Royal Society Open Science (IF 3.5). Manuscript ID: RSOS-231896

ACCEPTED

- P3. Droppelmann CA, Campos-Melo D, Noches V, McLellan C, Szabla R, Lyons TA, Amzil H, Withers B, Sonkar KS, **Simon AF**, Buratti E, Junop M, Kramer JM, Strong MJ. *Mitigation of TDP-43-induced toxic phenotype by expression of RGNEF N-terminal fragment in ALS models*. Brain (IF 14.5). Manuscript ID: BRAIN-2023-01760

PUBLISHED

- P4. Frame AK#, Robinson JW*, Mahmoudzadeh NH, Tennessen JM, **Simon AF** & Cumming RC (2023). *Aging and memory are altered by genetically manipulating lactate dehydrogenase in the neurons or glia of flies*. Aging (IF 5.95), 15:947-981, <https://doi.org/10.18632/aging.204565>
- P5. Brown SG; Brenman-Suttner DB*, McInnes AG; Lew K, Moehring AJ, Bauer, JH, **Simon AF** (2021). *Inheritance of pheromone profiles from aged D. melanogaster*. microPublication Biology (IF 2.4) 10.17912/micropub.biology.000459
- P6. Sharan N, Cuerden M, Maxwell D & Simon AF (2021). *Transitioning a large biology class from an in person to an online exam during the COVID 19 pandemic*. International Journal of Basic Sciences and Applied Computing (IF 2.4) 3(5): 1-4.
- P7. Yost RT*, Liang E**, Stewart MP**, Chui S**, Greco AF**, Long SQ**, McDonald IS*, McNeil JN & **Simon AF** (2021) *Drosophila melanogaster Stress Odorant (dSO) displays the characteristics of an interspecific alarm cue*. Journal of Chemical Ecology (IF 2.4) - JOCE-D-20-00261
- P8. Yost RT*, Robinson JW*, Baxter CM, Scott AM, Brown LP**, Aletta S**, Lone A, Hakimjavadi R**, Cumming RC, Dukas R, Mozer B, **Simon AF** (2020). *Abnormal social interactions in a Drosophila mutant of an autism candidate gene: neuroligin 3*. Invited to International Journal of Molecular Sciences, Special Issue "Role of Drosophila in Human Disease Research" - (IF 4.57) 21, 4601; doi:10.3390/ijms21134601
- P9. Brenman-Suttner DB*, Yost RT*, Frame AK#, Robinson JW*, Moehring AJ, **Simon AF** (2019). *Social behavior and aging: a fly model*. Genes, Brain and Behavior (IF 3.66) e12598.
Included in a special issue of the journal on Sex Differences - Among top 10 most downloaded papers that year
- P10. Castells-Nobau A, Eidhof I, Fenckova M, Brenman-Suttner DB*, Scheffer-de Gooyert JM, Christine S, Shellevs RL, van der Laan K, Quentin C, Hofmann F, PTomancak P, Fisher SE, Kramer JM, Sigrist JS, **Simon AF**, Schenck A (2019) *Conserved regulation of neurodevelopmental processes and behaviors by FOXP in Drosophila*. PLOS One (IF 2.77) 14(2):e0211652.
- P11. Brenman-Suttner DB*, Long SQ**, Kamesan V**, Yost RT**, de Belle JN*, Kanippayoor RL and **Simon AF**. (2018) *Progeny of old parents have increased social space in Drosophila melanogaster*. Scientific Reports (IF 4.25) 8:3673. doi:10.1038/s41598-018-21731-0.
- P12. Fernandez RW**, Akinleye AA**, Nurilov M**, Feliciano O**, Lollar M, Aijuri RR, O'Donnell JM and **Simon AF**. (2017) *Modulation of social behavior by dopamine in Drosophila melanogaster: involvement in social spacing but no effect on social avoidance*. Royal Society Biology Letters (IF 2.8) 13: 20170369. doi:10.1098/rsbl.2017.0369.
The Royal Society distributed a Press release that led to Media coverage (see outreach section)
- P13. Croft JR#, Liu T#, Camiletti A, **Simon AF** and J Thompson GJ. (2017) *Sexual response of male Drosophila to honey bee queen mandibular pheromone: implications for genetic studies of social insects*. Journal of Comparative Physiology A (IF 1.98) 203: 143. doi:10.1007/s00359-017-1147-y.
Highlight article of that issue of JCPA
- P14. Long SQ** and **Simon AF** (2016). "Effect of maternal age on offspring social behaviour in drosophila melanogaster paper 10." The Undergraduate Awards: Paper 10. https://ir.lib.uwo.ca/ungradawards_2016/10.
Based on Shirley Long Honor thesis – Led to her Highly Commended Entrant in The Undergraduate Awards

PUBLISHED (continued)

- P15. Wise A, Tenezaca L[#], Fernandez R^{**}, Schatoff E, Flores J, Atsushi Ueda A, Zhong X, Wu C-F, **Simon AF**[#], Venkatesh T (2015). *The Autism candidate gene Neurobeachin (Rugose) mutants in Drosophila exhibit neuro-developmental disorders, aberrant synaptic properties, altered locomotion, impaired adult social behavior and activity patterns*. Journal of Neurogenetics (IF 1.27) doi:10.3109/01677063.2015.1064916. # co-corresponding author
- P16. McNeil AR^{**}, Jolley SN^{**}, Akinleye AA^{**}, Nurilov M^{**}, Rouzyi Z^{**}, Milunovich A, Chambers MC and **Simon AF** (2015). *Conditions affecting social space in Drosophila melanogaster in Drosophila melanogaster*. J. Vis. Exp. (IF 1.33) 105, e53242, doi:10.3791/53242.
- P17. Kaur K[#], **Simon AF**, Chauhan V. and Chauhan A (2015). *Novel behavioral aberrations in a Drosophila model - potential implications in the study of neurodevelopmental disorders*. Behavioural Brain Research (IF 3.03) 284: 77-84
- P18. Fernandez RW^{**}, Nurilov M^{**}, Feliciano O^{**}, McDonald IS^{*} and **Simon AF** (2014). *Straightforward Assay for Quantification of Social Avoidance in Drosophila melanogaster*. J. Vis. Exp. (IF 1.33) 94; e52011, doi: 10.3791/52011.
- Featured in the New-Yorker, Aug 28, 2015: "How Methods Videos Are Making Science Smarter", By Jamie Holmes
- P19. **Simon AF**, Salazar E^{**}, Chou M-T^{**}, Nicholson T^{**}, Saini N^{**}, Metchev S and Krantz DE (2012). *A simple assay to study social behavior in Drosophila: measurement of social space within a group*. Genes, Brain and Behavior (IF 3.66) 11, 243-252.
- P20. Lawal HO, Chang H-Y, Terrell AN, Brooks ES, Pulido D, **Simon AF**, and Krantz DE (2010). *The Drosophila vesicular monoamine transporter reduces pesticide-induced loss of dopaminergic neurons*. Neurobiology of Disease (IF 5.08) 40(1):102-112.
- P21. **Simon AF**, Daniels R, Romero-Calderón R, Grygoruk A, Chang H-Y, Rod Najibi^{**}, Shamouelian D^{**}, Salazar E^{**}, Solomon M^{**}, Larry C. Ackerson LC, Maidment NT, DiAntonio A and Krantz DE. (2009) *Drosophila vesicular monoamine transporter mutants can adapt to reduced or eliminated vesicular stores of dopamine and serotonin*. Genetics (IF 5.96) 181(2):525-41.
- P22. Romero-Calderón R, Uhlenbrock G, Borycz J, **Simon AF**, Grygoruk A, Yee SK, Shyer A, Ackerson LC, Maidment NT, Meinertzhagen IA, Hovemann BT, Krantz DE (2008). *A Glial Variant of the Vesicular Monoamine Transporter Is Required To Store Histamine in the Drosophila Visual System*. PLoS Genetics (IF 7.53) 4(11): e1000245.
- P23. Romero-Calderón R, Shome RM, **Simon AF**, Daniels RW, DiAntonio A, Krantz DE (2007). *A Screen For Neurotransmitter Transporters Expressed In The Visual System Of Drosophila melanogaster Identifies Three Novel Genes*. Developmental Neurobiology (IF 3.37) 67: 550-69.
- P24. **Simon AF**, Krantz DE (2007). *Road Rage and Fruit Fly*. News and Views - Nature Genetics (IF 29.35) 39: 581.
- P25. **Simon AF**, Liang DT, Krantz DE (2006). *Differential decline in behavioral performance of Drosophila melanogaster with age*. Mechanisms Of Ageing And Development (F 3.4) 127, 647-651.
- P26. Suh GSB, Wong AM, Hergarden AC, Wang JW, **Simon AF**, Benzer S, Axel R, Anderson DJ (2004). *A single population of sensory neurons mediates an innate avoidance behavior in drosophila*. Nature (IF 41.46) 431: 854-59.
- P27. Brummel T, Ching A, Seroude L, **Simon AF**, Benzer S (2004). *Drosophila lifespan enhancement by exogenous bacteria*. PNAS (IF 9.67) 101: 12974-12979.
- P28. **Simon AF**, Shih C^{**}, Mack A^{***}, Benzer S (2003). *Steroid control of longevity In Drosophila melanogaster*. Science (IF 33.61) 299: 1407-1410.
- P29. **Simon AF**, Hitier R[^], Savary F, Preat T (2000). *No-bridge and linotte act jointly at the interhemispheric junction to build up the adult central brain of drosophila melanogaster*. Mech. of Dev. (IF 2.44) 99: 93-100. ^ co-first author.
- P30. **Simon AF**, Boquet I, Synguelakis M, Preat T (1998). *The Drosophila putative kinase linotte (derailed) prevents central brain axons from converging, on a newly described interhemispheric ring*. Mech. Of Development (IF 2.44) 76: 45-55.

PEER-REVIEWED CONFERENCE PROCEEDINGS

- C1. Frame AK[#], **Simon, AF** & Cumming RC (2021). Determining the role of lactate metabolism on age-dependent memory decline and neurodegeneration in *Drosophila melanogaster*. Alzheimer's Dement., 16: e037313. <https://doi.org/10.1002/alz.037313>
- C2. Dai L, Bellugi U, Chen XN, Pulst- Korenberg AM, Jarvinen-Pasley A, Wagner TT, Eis PS, Reiss AL, Mills DL, **Simon A**, Searcy Y and Korenberg JR (2009). *Is it Williams Syndrome? GTF2I Implicated in Sociability and GTF2IRD1 in Visual-Spatial Construction Revealed by High Resolution Arrays*. Front. Hum. Neurosci. Conference Abstract: 12th International Professional Conference on Williams Syndrome. doi: 10.3389/conf.neuro.09.2009.07.046. **Cited by 93**.
- C3. Gao MC, Wijesuriya H, Dai L, Appelbaum M, Chen XN, **Simon A** and Korenberg JR (2009). *Hypertension: High Resolution Array Analyses Reveal the Risk in Williams Syndrome is Determined by Gender and Parent of Origin*. Front. Hum. Neurosci. 12th Int. Professional Conference on Williams Syndrome. doi: 10.3389/conf.neuro.09.2009.07.037
- C4. **Simon A F**, Chang H-Y, Romero-Calderon R, Ackerson LC, Maidment NT and Krantz DE (2006). "Drosophila models of vesicular transport function." Conference paper - Acta Biomedica de l'Ateneo Parmense, 77(suppl. 3): 34-36.

PEER-REVIEWED CONFERENCE PROCEEDINGS (continued)

- C5. **Simon AF**, G Yao GM, X. N. Chen, D. Mills, F. E. Rose, L. S. Salandanan, A. Reiss and J. R. Korenberg (2003). *Williams Syndrome: evidence from atypical deletions links GTF21 and GTF2IRD1, but not FZD9, with posterior cortical structure and neural functions*. ASHG meeting Los Angeles November 4-8, published in American Journal of Human Genetics, UNIV CHICAGO PRESS. 73: 514.

DATA SETS AND NON-PEER-REVIEWED ARTICLES

- D1. Chaplin A**, Kohalmi SE, **Simon AF (2024)**. Impact of the COVID-19 pandemic on undergraduate research in the department of biology at Western university: Effect on project types, learning outcomes, and student perceptions. BioRxiv - <https://doi.org/10.1101/2024.01.24.577125>
- D2. Robinson JW*, Bechard AT*, Frame AK#, Evans M*, Shaunik Sharma**, Alaka W*, Atheby A-C, Lawal HO and **Simon AF (2023)**. *The Drosophila adult brain: short overview of structure, function, and resources*, Graphical Review. Available at SSRN: <https://ssrn.com/abstract=4686271> or <http://dx.doi.org/10.2139/ssrn.4686271>
- D3. Yost RT*, Scott AM, Kurbaj JM**, Walshe-Rousell B, Dukas R and **Simon AF (2023)**. *Recovery from social isolation requires dopamine in males, but not the autism-related gene nlg3 in either sex*. BioRxiv 2023.12.05.570093; doi: 10.1101/2023.12.05.570093.
- D4. Yost RT*, Scott AM, Kurbaj JM**, Walshe-Rousell B, Dukas R and **Simon AF (2023)**. Data from: *Recovery from social isolation requires dopamine in males, but not the autism-related gene nlg3 in either sex*. Dryad Digital Repository: doi:10.5061/dryad.0cfxpnw8f
- D5. Droppelmann CA, Campos-Melo D, Noches V, McLellan C, Szabla R, Lyons TA, Amzil H, Withers B, Sonkar KS, **Simon AF**, Buratti E, Junop M, Kramer JM, Strong MJ (2023). *Mitigation of TDP-43-induced toxic phenotype by expression of RGNEF N-terminal fragment in ALS models*. BioRxiv: 560207; doi: 10.1101/2023.09.29.560207
- D6. Frame AK#, Robinson JW*, Mahmoudzadeh NH, Tennessen JM, **Simon AF**, and Cumming RC (2022). *Aging and memory are altered by genetically manipulating lactate dehydrogenase in the neurons or glia of flies*. bioRxiv 2022.10.19.512981; <https://biorexiv.org/cgi/content/short/2022.10.19.512981v1>
- D7. Yost RT*, Liang E**, Stewart MP**, Chui S**, Greco AF**, Long SQ**, McDonald IS*, McNeil JN and **Simon AF (2019)** *Is Drosophila melanogaster Stress Odorant (dSO) really an alarm pheromone?* bioRxiv 534719; doi: <https://doi.org/10.1101/534719>
- D8. Fernandez RW**, Akinleye AA**, Nurilov M**, Feliciano O**, Lollar M, Aijuri RR, O'Donnell JM and **Simon AF**. Data from: *Modulation of social behavior by dopamine in Drosophila melanogaster: involvement in social spacing but no effect on social avoidance*. Dryad Digital Repository. doi:10.5061/dryad.dn5tk

PRESENTATIONS

Notes on co-authors:

*graduate student, ** undergraduate student, ***high-school students, under my supervision or #advisement

INVITED TALKS

- T1. **Simon AF (2023)** *Personal bubble: a fly's point of view*. Delaware State University College Of Agriculture, Science & Technology. Neuroscience Speaker Visit.
- T2. *Department of Biological Sciences Simon AF (2023) Recovering from social isolation: lessons from the fly*. Western University, Schulich School of Medicine, Department of Anatomy and Cell Biology Seminar Series
- T3. **Simon AF (2021)** *How social space is affected by an individual's experience: a fly's point of view*. Virtual Neurofly 2020 - 18th European Neurobiology of Drosophila Conference, Toledo Spain.
- T4. **Simon AF (2021)**. *Social isolation: what does the fly has to do with it?* Molecular, Cells and Systems Seminar Series, Department of Biological Sciences, University of Alberta.
- T5. **Simon AF (2019)**. *Social interactions in the vinegar fly: simple assays to identify potentially conserved pathways*. CanFly XV 2019 Toronto, Ontario.
- T6. **Simon AF (2019)**. *Towards and understanding of the neurocircuitry underlying social spacing in Drosophila melanogaster*. 39th annual Southern Ontario Neuroscience Association meeting, Windsor, ON.
- T7. **Simon AF (2019)**. *Laboratory Budgeting*. New Faculty Forum – 60th Drosophila Research Conference, Dallas, TX.
- T8. **Simon AF (2018)**. *Social interactions in Drosophila melanogaster: social space and avoidance of stressed flies*. Agriculture and Agri-Food Canada, London Research and Development Centre May 30th
- T9. **Simon AF (2017)**. *The fly social space: genetic and environmental influences*. Department of Biology, McMaster University Nov. 30th.
- T10. **Simon AF (2017)**. *Genetic and environmental influences on social space: what can we learn from the fly?* Biology Seminar Series of Physiology & Pharmacology department of Schulich School of Medicine & Dentistry, Western University. October 16th.

INVITED TALKS (continued)

- T11. **Simon AF (2017).** *Genetics of social behaviour: what can we learn from the fly space bubble.* Department of Biology of Wilfrid Laurier University Sept 29th.
- T12. **Simon AF (2017).** *Genetic basis of social space in the fly: A model to understand the role of candidate genes.* Biology Department of **Queens University**, June 30th.
- T13. **Simon AF (2017).** *Social Space of the fly: genes and environmental conditions involved in determining social behaviour.* Biology Seminar Series of the Anatomy & Cell department of **Schulich School of Medicine & Dentistry, Western University**, February 24th.
- T14. **Simon AF (2016).** *The fly's personal social space bubble.* **University of Toronto at Mississauga.** Biology Department Seminar Series, April 8th.
- T15. **Simon AF (2014).** (Student selected) *Different ways to be asocial'': insights from the fly's response to others.* Helen Battle Lecture 2014, **Western University, Biology Department**, March 12th,
- T16. **Simon AF (2012).** *Fruit-fly social behavior.* **York College Summer Research Program** For High School, Undergraduate and Graduate Students. July 12.
- T17. **Simon AF (2012).** *Using the fruit-fly to understand the genetic basis of social interactions.* **York College Provost Lecture Series**, March 12. <http://www.youtube.com/watch?v=dqwp0UiA&feature=youtu.be>
- T18. **Simon AF (2011).** *"Don't stand so close to me": Study of social space in the fruit-fly.* **Columbia University of New-York**, Department of Pharmacology, Nov 14.
- T19. **Simon AF (2011).** *"Don't come so close to me": Study of social space in the fruit-fly.* **St John's University**, Oct 26.
- T20. **Simon AF (2010).** *A New Simple Assay To Study Social Behavior In The Fruit-fly: Measurement Of Social Space.* **The City College of New-York**, Oct 18.
- T21. **Simon AF (2010).** *A New Simple Assay To Study Social Behavior In The Fruit-fly: Measurement Of Social Space.* **Long Island University CW Post**, Mar 24.
- T22. **Simon AF (2008).** *Study of Aggregation in the Fruit-Fly.* **Dowling College, NY**, Apr 28
- T23. **Simon AF (2008).** *Genetic Basis of Social Behavior: Study of Aggregation in the Fruit-Fly.* **City University of New-York, York College**, April 25.
- T24. **Simon AF (2008).** *Genetic Basis of Social Behavior: Study of Aggregation in the Fruit-Fly.* **Adelphi U., NY**, Apr 24.
- T25. **Simon AF (2008).** *Genetic Basis of Social Behavior: Study of Aggregation in the Fruit-Fly.* **Spelman College, Atlanta**, March 18.
- T26. **Simon AF (2008).** *Genetic Basis of Social Behavior in the Fruit-Fly.* **DePaul University, Chicago**, February 22.
- T27. **Simon AF (2008).** *Study of Aggregation in the Fruit-Fly.* **Eastern Connecticut State University**, January 31.
- T28. **Simon AF (2008).** *Genetic Basis of Social Behavior: Study of Aggregation in the Fruit-Fly.* **Grand Valley State University, MI**, January 18.
- T29. **Simon AF (2007).** *New paradigm for studying social behavior in Drosophila (fruit fly): Exploring genetic basis of social deficits in autism.* UCLA CART Autism Affinity Group, Year 2 Pilot Grants.
- T30. **Simon AF, Krantz ED (2005).** *Steroid control of longevity in Drosophila melanogaster.* The Endocrine Society's 87th Annual meeting.
- T31. **Simon AF, Shih C**, Benzer S (2002).** *Steroid control of longevity in Drosophila melanogaster.* UCLA-CALTECH *Drosophila* meeting.

ORAL PRESENTATIONS AT CONFERENCES

- O1. Evans M*, **Simon AF (2023).** *Of the four dopamine receptors, only DopEcR modulates the social behavioural response to the environment in Drosophila males.* 12th Biennial Biology Graduate Research Forum - Organized by the Graduate Students of the Department of Biology at Western University. **Award for best MSc presentation**
- O2. Robinson JW*, **Simon AF (2023).** *Social spacing: elucidating the neural circuitry.* Symposium 15 at the International Behavioral Neuroscience Society (IBNS), Niagara Falls, ON, Canada.
- O3. McNeil JN, Yost RT*, Liang E**, Stewart MP**, Chui S**, Greco AF**, Long SQ**, McDonald IS* & Simon AF (2022) *Drosophila melanogaster Stress Odorant is an interspecific alarm cue.* ISCE-APACE 3rd Joint Meeting, Kuala Lumpur, Malaysia, August 8-12
- O4. Bechard A, Robinson JW, Yost RT and Simon AF (2021). *Autism candidate gene nl3 is important for social space and a response to the environment.* Virtual CanFly XVII 2021 UBC, Vancouver, BC. **Selected Poster Preview**
- O5. Robinson JW and **Simon AF (2019).** *Assessing the role of neuroligin 3 in Drosophila melanogaster social spacing behaviour.* 10th Annual Biology Graduate Research Forum - Organized by the Graduate Students of the Department of Biology at Western University.
- O6. Frame AK#, **Simon AF**, and Cumming RC (2019). *Lactate dehydrogenase in Drosophila impact life-span and long-term memory.* 7th Annual Meeting of the Canadian Neurometabolic Club - Satellite meeting of the Canadian Association for Neuroscience, Toronto, Ontario.

ORAL PRESENTATIONS AT CONFERENCES (Continued)

- O7. Yost RT*, Scott AM, Bao A**, Hakimjavadi R**, Lone A, Dukas R, **Simon AF (2019)** *Neurologin3 is required for a response to the social environment in Drosophila melanogaster*. Neural circuits and behavior I - 60th Annual Drosophila Research Conference, Dallas, TX. **Selected Poster Preview**
- O8. Scharf C[#], Ransome K^{##}, **Simon AF**, Thompson G (2018). *Analysis of Living Social Networks: Insights from a Drosophila Model*. Ontario Ecology, Ethology and Evolution Colloquium, London, Ontario.
- O9. Yost RT*, McDonald* I, Selwyn Chui S**, Greco A**, Long S**, McNeil JN and **Simon AF (2018)** *Drosophila melanogaster Stress Odorant (dSO) displays the characteristics of an alarm pheromone*. Ontario Ecology, Ethology and Evolution Colloquium, London, Ontario.
- O10. Liang E **, Yost RT* and **Simon AF (2018)** *The avoidance of the Drosophila stress odorant is not species specific*. Ontario Ecology, Ethology and Evolution Colloquium, London, Ontario.
- O11. Robinson JW*, ^[SEP]Yost RT*, de Belle JN** and **Simon AF (2018)**. *Towards an identification of the neural circuitry necessary for proper social spacing in D. melanogaster*^[T]^[SEP]. Ontario Ecology, Ethology and Evolution Colloquium, London, Ontario.
- O12. Yost RT*, McNeil AR**, Choi N** and **Simon AF. (2018)**. *The effect of social isolation on behaviour and Neurologin3 expression in Drosophila melanogaster*. Fallona Family Interdisciplinary Showcase, Western, London, ON. **Selected lightening talk**
- O13. Robinson JW*, Yan T**, and **Simon AF (2017)**. *Identifying the neural circuitry necessary for proper social spacing through the lens of Drosophila neurologin 3*. Fallona Family Interdisciplinary Showcase, Western, London, ON. **Selected lightening talk**
- O14. Brenman D*, Long S, Kanippayoor R and **Simon AF (2016)**. *The young progeny of aged parents are less social*. 7th Annual Biology Graduate Research Forum 2015 - Organized by the Graduate Students of the Department of Biology at Western University. **Selected long talk** (gave a short talk for scheduling reasons).
- O15. Brenman D*, Long S** and **Simon AF. (2015)**. *The sons of old fathers are less social*. Fallona Family Interdisciplinary Showcase 2015, London, ON. **Selected 3 min. Thesis**
- O16. McNeil AR** and Simon AF (2015)**. *Neurologin 3 expression is affected by social experience in Drosophila melanogaster*. Biology & Environmental Science Research Day at Western University. **Award for best presentation in the Genetics III/Cell Biology I section.**
- O17. Jolley SN**, Castells-Nabau A, Schenck A and Simon AF (2015)**. *Assessing social behavior in FoxP mutant Drosophila melanogaster*. Biology & Environmental Science Research Day at Western University.
- O18. McDonald IS*, Long S**, Chui S**, Greco A**, McNeil JN, Simon AF (2014). *Factors affecting the release of and response to the Stress Odorant (dSO) by Drosophila melanogaster*. The Entomological Society of Canada and the Entomological Society of Saskatchewan 2014 Joint Annual Meeting, Canada
- O19. Wise A, Tenezaca L, Fernandez R**, Schatoff E, Flores J, Atsushi Ueda A, **Simon AF**, Wu C-F, Venkatesh T (2013). *The Autism candidate gene Neurobeachin (Rugose) mutants in Drosophila ...* Cold Spring Harbor Meeting: From Molecules to Circuits & Behavior April 2013
- O20. Fernandez RW**, Akinleye A**, Nurilov M**, Rouzyi Z**, **Simon AF (2013)**. *A Step Closer to Understanding Social Behavior: Social Interactions and Dopamine in Drosophila melanogaster*. Drosophila Research and Pedagogy at Primarily Undergraduate Institutions (PUI) Workshop, at the 54th Annual Drosophila Research Conference, Washington D.C.
- O21. Fernandez R**, Akinleye A**, Nurilov M**, Rouzyi Z**, **Simon AF (2012)**. *Levels of dopamine appear to correlate with the capacity to avoid social stress signals in Drosophila melanogaster*. CUSJ Spring Undergraduate Research Symposium 2012, Manhattan, NY.
- O22. Fernandez RW**, Akinleye A**, Nurilov M**, Rouzyi Z**, **Simon A (2012)**. *Innate social avoidance in the fruit-fly to study model of autism and dopamine involvement*. CUNY YORK COLLEGE. 3rd Annual Research Day, Jamaica NY.
- O23. **Simon AF**, Salazar E**, Chou M-T**, Krantz ED (2007). *A new paradigm to study social behavior*. 48th Annual Drosophila Research Conference, Philadelphia.
- O24. **Simon AF**, Salazar E**, Chou M-T**, Krantz ED (2006). *A new laboratory assay to study social behavior in Drosophila melanogaster*. December 2006 Behavioral Ecology Lunch, UCLA.
- O25. **Simon AF (2004)**. *Brain Behavior and Immune system in the fruit fly*. UCLA Cousins Center for Psychoneuimmunology.
- O26. **Simon AF (2004)**. *Behavior, steroids and aging*. UCLA Hatos Center for Neuropharmacology.
- O27. **Simon AF**, Shih C*, Benzer S (2002). *Steroid control of longevity in Drosophila melanogaster*. Caltech 2W5F seminar.
- O28. Simon AF**, Shih C**, Benzer S (2002). *Steroid control of longevity in Drosophila melanogaster*. Ecdysone workshop at the 43rd Annual Drosophila Research Conference, San Diego.

ORAL PRESENTATIONS AT CONFERENCES (Continued)

- O29. Preat T, **Simon A**, Hitier R, Boquet I, Pascual A, Savarit F (1999). *Genetic Interactions At The Interhemispheric Junction Regulate Central Brain Postembryonic Development*. 16th European Drosophila Research Conference, Zurich (Switzerland).
- O30. **Simon AF** and Pr  at T (1996). *Implication Of The Linotte (Lio) Gene In Drosophila Brain Development*. 6th European symposium on Drosophila neurobiology, Regensburg (Germany).
- O31. Pr  at T, **Simon AF**, Boquet I. (1996). *Genetic Dissection Of Brain Development In Drosophila*. Symposium de l'association pour la neuro psycho pharmacologie: " Neurogenesis: from Egg to Brain ", Paris (France).

INTERNATIONAL / NATIONAL CONFERENCES ABSTRACTS (POSTERS)

- A1. Yost RT*, Robinson JW*, Bechard AT*, Alaka W*, **Simon AF (2023)**. *Social space: what can we learn from a fly?* Genes, Brain and Behavior (IBANGS) meeting 223, Galway, Ireland.
- A2. Robinson JW*, Yost YT*, Bechard AT*, Alaka W*, Sahota A**, Mosuro K**, de Belle J*, **Simon AF (2023)**. *Social spacing: elucidating the neural circuitry*. 64th Annual Drosophila conference, Chicago, IL, USA.
- A3. Bechard AT*, Robinson JW*, Yost RT*, **Simon AF (2023)**. *Manipulation of neuron transmission in the mushroom bodies and protocerebral bridge affects social behaviour*. 64th Annual Drosophila conference, Chicago, IL, USA.
- A4. Yost RT*, Walshe-Roussel B and **Simon AF (2022)**. *Neuroigin3 and dopamine are required for a response to social isolation, but recovery is complex and sex-specific*. 63rd Annual Drosophila conference, San Diego, CA, USA.
- A5. Robinson JW*, Bechard A*, Yost RT* and **Simon AF (2022)**. *Understanding the neural circuitry of social spacing behaviour through the lens of Drosophila Neuroigin 3*. 63rd Annual Drosophila conference, San Diego, CA, USA.
- A6. Bechard A*, Robinson JW*, Yost RT* and **Simon AF (2022)**. *Manipulation of neuron transmission in the mushroom bodies and protocerebral bridge affects social behaviour*. 63rd Annual Drosophila conference, San Diego, CA, USA.
- A7. **Simon AF**, McNeil JN, Thompson GJ, Bechard AT**, Robinson JW and Yost RT* (2022). *Don't want to be all by myself BUT Don't stand so close to me*. 63rd Annual Drosophila conference, San Diego, CA, USA.
- A8. Frame AK[#], Robinson JW, Mahmoudzadeh NH, Tennessen JM, **Simon AF**, and Cumming RC. (2022) *Lactate metabolism in the fly brain influences aging and long-term courtship memory*. 15th Annual CAN Meeting Canadian Association for Neuroscience, Toronto, ON, Canada.
- A9. Bechard A*, Robinson JW*, Yost RT* and Simon AF (2021). *Autism candidate gene nlg3 is important for social space and a response to the environment*. Virtual CanFly XVII 2021 UBC, Vancouver, BC, Canada.
- A10. Frame AK[#], **Simon AF**, and Cumming RC (2020) *Lactate metabolism and cognitive aging in Drosophila melanogaster*. Annual Alzheimer's Association International Conference – virtual.
- A11. Frame AK[#], **Simon AF**, and Cumming RC (2019) *Lactate dehydrogenase influences long-term memory and lifespan*. CanFly XV 2019 Toronto, ON, Canada.
- A12. Robinson JW*, Aletta S**, Yost RT*, Hakimjavadi R**, Scott AM, Dukas R & **Simon AF (2019)** *Drosophila Neuroigin 3 mutants affect the brain and social behaviours*. CanFly XV 2019 Toronto, Ontario.
- A13. Yost RT*, Scott AM, Bao A**, Hakimjavadi R**, Lone A, Dukas R & **Simon AF (2019)** *Autism-related gene neuroigin3 is required for a response to the social environment in Drosophila melanogaster*. CanFly XV 2019 Toronto, Ontario.
- A14. Frame AK[#], **Simon AF**, and Cumming RC. (2019) *What does it cost to form long-term memories?* 13th Annual CAN Meeting Canadian Association for Neuroscience, Toronto, ON, Canada.
- A15. Robinson JW*, Aletta S**, Yost RT*, Hakimjavadi R**, Soloman M**, Scott AM, Dukas R, Anne F. **Simon AF (2019)** *Drosophila Neuroigin 3 affects social behaviour. Neural circuits and behavior*. Neural circuits and behavior - 60th Annual Drosophila Research Conference, Dallas, TX, USA.
- A16. Yost RT*, Scott AM, Bao A**, Hakimjavadi R**, Lone A, Dukas R, **Simon AF (2019)** *Neuroigin3 is required for a response to the social environment in Drosophila melanogaster*. Neural circuits and behavior - 60th Annual Drosophila Research Conference, Dallas, TX.
- A17. Frame AK[#], **Simon AF**, and Cumming RC (2018). *The effect of lactate dehydrogenase expression on long-term memory in Drosophila melanogaster*. FENS Forum of Neuroscience 2018, Berlin Germany.
- A18. Frame AK[#], **Simon AF**, and Cumming RC (2018). *The influence of lactate dehydrogenase on long-term memory in Drosophila melanogaster*. 12th Annual Canadian Neuroscience Meeting, Vancouver, BC.
- A19. Yost RT*, Robinson JW*, Yan T**, McNeil AR**, Choi N**, Lone A, Moser BA and **Simon AF (2018)**. *Gene-environment interaction in social spacing in mutants of Drosophila neuroigin 3*. 59th Annual Drosophila Research Conference, Philadelphia, PA, USA.
- A20. Frame AK[#], **Simon AF**, and Cumming RC (2017). *Determining the evolutionarily conserved role of glial derived lactate in Drosophila melanogaster memory*. 11th Annual Canadian Neuroscience Meeting, Montreal, QC.
- A21. Brenman D*, Long S** and **Simon AF. (2016)**. *Aged parents have less social offspring*. TAGC, The allied Genetics conference 2016, Orlando, Florida, USA.

INTERNATIONAL / NATIONAL CONFERENCES ABSTRACTS (POSTERS - continued)

- A22. Brenman D*, Long S** and **Simon AF. (2016)**. *The sons of old fathers are less social*. 8th Canadian Developmental Biology conference, Banff, Alberta, Canada. Award for Best Poster presentation.
- A23. Brenman D*, Long S** and **Simon AF. (2015)**. *The progeny of old parents are less social*. 16th Neurobiology Of Drosophila meeting, Cold Spring Harbor Laboratories, NY, USA.
- A24. McNeil AR**, Choi N**, Akinleye AA**, Jolley SN**, Rouzyi R** and **Simon AF (2015)**. *Determination of environmental factors affecting social space in Drosophila melanogaster*. CanFly XIII 2015, Montreal, QC.
- A25. McDonald IS*, Long S**, Chui N**, Greco A**, McNeil JN and **Simon AF (2015)**. *Factors affecting the release of and response to the Stress Odorant (dSO) by Drosophila melanogaster*. CanFly XIII 2015, Montreal, QC.
- A26. McNeil AR**, Choi N**, Akinleye AA**, Jolley SN**, Rouzyi R** and **Simon AF (2015)**. *Determination of environmental factors affecting social space in Drosophila melanogaster*. 56th Annual Drosophila Research Conference, Chicago, IL.
- A27. McDonald IS*, Long S**, Chui N**, Greco A**, McNeil JN and **Simon AF (2015)**. *Factors affecting the release of and response to the Stress Odorant (dSO) by Drosophila melanogaster*. 56th Annual Drosophila Research Conference, Chicago, IL.
- A28. Weir ND, Rita AH**, Tsekyi D, Hua S-Y, and **Simon AF.(2014)**. *Detecting Structural Defects in D. melanogaster rugose Mutants' Synapse to Study Autism*. ABRCMS (American Biomedical Research Conference for Minority Students), San Antonio, United States_{SEP}.
- A29. Wise A, Tenezaca L, Fernandez R**, Schatoff E, Flores J, Atsushi Ueda A, **Simon AF**, Wu C-F, Venkatesh T (2013). *The Autism candidate gene Neurobeachin (Rugose) mutants in Drosophila exhibit neuro-developmental disorders, aberrant synaptic properties, altered locomotion, impaired adult social behavior and activity patterns*. From Molecules to Circuits & Behavior meeting, Cold Spring Harbor Laboratory, NY, USA.
- A30. Fernandez RW**, Akinleye AA**, Nurilov M**, Rouzyi Z**, **Simon AF (2013)**. *A Step Closer to Understanding Social Behavior: Social Interactions and Dopamine in Drosophila melanogaster*. 54th Annual Drosophila Research Conference, Washington D.C.
- A31. Fernandez RW**, Akinleye A**, Nurilov M**, Rouzyi Z**, **Simon A (2012)**. *A Step Closer to Understanding Social Behavior: Social Interactions and Dopamine in Drosophila melanogaster*. Annual Biomedical Research Conference for Minority Students 2012. San Jose, CA.
- A32. Tenezaca L**, Schatoff E, Fernandez RW**, Flores J, Wise A, **Simon AF** and Venkatesh TR (2012). *A Drosophila model for studies on Human Autism Spectrum Disorders: Rugose (Neurobeachin) mutants exhibit neuro-developmental disorders, aberrant Locomotion, impaired adult social behaviors and activity patterns*. Champalimaud Neuroscience Symposium, 30th September - 3rd October, Lisbon, Portugal.
- A33. **Simon AF**, Salazar E**, Chou M-T**, Krantz DE (2009). *Genetics of Aggregation, a Basic Adaptive Behavior in Drosophila*. 12th Neurobiology Of Drosophila meeting, Cold Spring Harbor Laboratories, NY, USA.
- A34. Dai L, Bellugi U, Chen XN, Pulst- Korenberg AM, Jarvinen-Pasley A, Wagner TT, Eis PS, Reiss AL, Mills DL, **Simon A**, Searcy Y and Korenberg JR (2008). *Is it Williams Syndrome? GTF2I Implicated in Sociability and GTF2IRD1 in Visual-Spatial Construction Revealed by High Resolution Arrays*. 12th International Professional Conference on Williams Syndrome, Garden Grove, California.
- A35. Gao MC, Wijesuriya H, Dai L, Appelbaum M, Chen XN, **Simon AF**, and Korenberg JR (2008). *Hypertension: High Resolution Array Analyses Reveal the Risk in Williams Syndrome is Determined by Gender and Parent of Origin*. 12th International Professional Conference on Williams Syndrome, Garden Grove, California.
- A36. **Simon AF**, Daniels R, Romero-Calderon R, Grygoruk A, Djapri C, Wu M, Sehgal A, Ackerson L Maidment NT, DiAntonio A, Krantz DE (2008). *Mutations of the Drosophila Vesicular Monoamines Transporter decrease larval locomotion and the adult response to cocaine*. 49th Annual Drosophila Research Conference, San Diego.
- A37. **Simon AF**, Salazar E*, Chou M-T**, Ackerson L, Maidment N, and David E Krantz (2008). *Genetics of Aggregation; A Basic Social Behavior in Drosophila*. 2nd GSA Genetic Analysis: Model Organisms to Human Biology Meeting, San Diego.
- A38. **Simon AF**, Romero-Calderon, Grygoruk A, Chang H-Y, Solomon M**, Shamouelian D**, Salazar E**, Krantz ED (2007). *Pleiotropic behavioral phenotype of the Vesicular Monoamine Transporter*. 48th Annual Drosophila Research Conference, Philadelphia.
- A39. **Simon AF**, Grygoruk A, Shamouelian D**, Salazar E**, Krantz DE (2006). *Mutants of the Vesicular Monoamine Transporter gene display disturbed larval behavior and reduced longevity*. 47th Annual Drosophila Research Conference, Houston.
- A40. **Simon AF**, Krantz ED (2005). *Dissociation between extension of longevity and resistance to stress in alleles of the steroid biosynthesis gene dare*. 46th Annual Drosophila Research Conference, San Diego.
- A41. A41. Suh GSB, Wong AM, Hergarden AC, Wang JW, **Simon AF**, Benzer S, Axel R, Anderson DJ (2005). *A Specific Olfactory Circuit mediates an avoidance behavior in drosophila*. 46th Annual Drosophila Research Conference, San Diego.

INTERNATIONAL / NATIONAL CONFERENCES ABSTRACTS (POSTERS - continued)

- A42.** Korenberg JR, Wijesuriya HK, Antoine HJ, Chen XN, **Simon AF**, Mohapatra G, Bellugi U, Rose FE (2004). *Correlation Of Hypertension With Parent Of Origin And Gender In Williams Syndrome* 34th Annual Meeting Society For Neuroscience, San Diego.
- A43.** Korenberg J.R., Applebaum M.I., Bellugi U., Chen X.N., Mills D.L., Reiss A.L., Rose F.E., Salandanan L.S.; **Simon A.F.**; Sawchenko P.E.; Yao G.M. *Williams Syndrome: Evidence From Atypical Deletion Links Gtfii-I And Gtfii-Ird1, With Posterior Cortical Structure And Neural Functions* (2004). 34th Annual Meeting Soc. Neurosc., San Diego.
- A44.** **Simon AF**, Yao GM, Chen XN, Mills D, Rose FE, Salandanan LS, Reiss A, Bellugi U, Korenberg JR (2003). *Williams Syndrome: Evidence From Atypical Deletions Links GTF2I And GTF2IRD1, But Not FZD9, With Posterior Cortical Structure And Neural Functions*. 53rd Ann. Ame. Soc. Human Genet Conf. Los Angeles, CA November 4-8, 2003.
- A45.** **Simon AF**, Davidsohn NJ**, Molina GA**, Benzer S (2003). *Why Do The Flies That Are Mutant In The Steroid Pathway Live Longer?* Gordon Conference Biology of Aging, Ventura 2003.
- A46.** **Simon AF**, Shih C**, Benzer S (2002). *Steroid Control Of Longevity In Drosophila Melanogaster*. 43rd Annual Drosophila Research Conference, San Diego.
- A47.** **Simon AF**, Benzer S (2001). *Behavior In Adult Flies: Changes In Performance Through Aging In Different Paradigms*. 42nd Annual Drosophila Research Conference, Washington D.C.
- A48.** **Simon AF**, Shih C**, Benzer S (2001). *A Mild Inhibition Of The Ecdysone Pathway In Adult Drosophila Confers Both*
- A49.** **Simon A.** Savarit F, Pr  at T (1995). *R  le De La Kinase Linotte Dans La Formation Du Complexe Central:   tude Des Cellules De La R  gion Interh  misph  rique Du Cerveau De Larve*. Dixi  mes journ  es Drosophile, Vichy (France).
- A50.** **Simon A**, Savarit F, Taillebourg E, Dura JM, Pr  at T (1995). *Expression du g  ne de drosophile linotte codant pour une tyrosine kinase impliqu  e dans le d  veloppement du cerveau*. 2i  me Colloque de la Soci  t   des Neurosciences, Lyon (France).

LOCAL CONFERENCES ABSTRACTS

- A1.** Frame AK[#], **Simon AF**, and Cumming RC (2020) *Aging, Memory-Degradation and Neurodegeneration Assessed in Fruit Flies with Altered Brain Lactate Metabolism*. London Health Research Day 2020.
- A2.** Frame AK[#], **Simon AF**, and Cumming RC. (2019) *Lactate dehydrogenase expression in Drosophila melanogaster impacts lifespan and long-term courtship memory*. Health Research Day, Ontario, April 30.
- A3.** Yen Chan Y**, Jimenez-Padilla Y, Lachance MA and **Simon AF** (2018). *Effect of Gut Microbiome on Modulating Social Spacing in Drosophila melanogaster*. Ontario Ecology, Ethology and Evolution Colloquium, London, Ontario. **Award for Best Poster presentation**
- A4.** *Identifying the Neural Circuitry Necessary for Proper Social Spacing Through the Lens of Drosophila neuroligin 3* (2018). 8th Annual Biology Graduate Research Forum, Western University.
- A5.** Yost RT*, McNeil A**, Choi N**, and **Simon AF** (2017). *The effect of social isolation on behaviour, neuroligin3 expression and dopamine levels in Drosophila melanogaster*. 8th Annual Biology Graduate Research Forum, Western University.
- A6.** Scharf CT[#], **Simon AF** and Thompson GT (2017). *Demographic and genetic effects on social spacing: lessons from fruit flies*. 154th Annual Conference of the Entomological Society Of Ontario, Guelph.
- A7.** Brenman D*, Long S** and Simon AF. (2015). *The progeny of old parents are less social*. 6th Annual Biology Graduate Research, Western University.
- A8.** Brenman D*, Long S** and **Simon AF**. (2015). *The progeny of old fathers are less social*. Fallona Family Interdisciplinary Showcase 2015, London, ON. **Honorary Mention for Best Poster Presentation**
- A9.** Jolley SN**, Castells-Nabau A, Schenck A and **Simon AF** (2015). *Assessing social behavior in FoxP mutant Drosophila melanogaster*. 28th Annual Ontario Biology Day (OBD) conference, Carleton University, Ottawa, ON. **Award for Best Poster Presentation in the Area of Ecology & Behaviour**
- A10.** McNeil AR**, Choi N**, Akinleye AA**, Jolley SN**, Rouzyi R** and **Simon AF** (2015). *Determination of environmental factors affecting social space in D. melanogaster*. 28th Annual Ontario Biology Day (OBD) conference, Carleton University, Ottawa, ON.
- A11.** McDonald IS*, Long S**, Chui S**, Greco A**, McNeil JN, **Simon AF** (2014). *Factors affecting the release of and response to the Stress Odorant (dSO) by Drosophila melanogaster*. 5th Annual Biology Graduate Research Forum, Western University.
- A12.** Fernandez RW**, Akinleye AA**, Nurilov M**, Rouzyi Z**, **Simon AF** (2013). *A Step Closer to Understanding Social Behavior: Social Interactions and Dopamine in Drosophila melanogaster*. 2nd annual CUNY Animal Behavior Initiative (CABI) conference at Hunter, New-York, NY, April 2013.
- A13.** Fernandez RW**, Akinleye AA**, Rouzyi Z**, **Simon A** (2012). *Loss of function and overexpression of VMAT suggest that the levels of dopamine correlate with the capacity to avoid social stress signals in Drosophila melanogaster*. CUSJ Spring Undergraduate Research Symposium 2012. Manhattan, NY.

LOCAL CONFERENCES ABSTRACTS (continued)

- A14. Akinleye A**, Fernandez RW**, Rouzyi Z**, **Simon AF** (2011). *Examining the effect of loss of function and over expression of VMAT in social interaction of Drosophila melanogaster*. CUNY YORK COLLEGE Research Day, Jamaica, NY.
- A15. **Simon AF**, Salazar E**, Chou M-T**, Krantz DE (2011). *Genetics of Aggregation, a Basic Adaptive Behavior in Drosophila*. CUNY Graduate Center, Doctoral Science Student Orientation, Biology program, Neurosciences.
- A16. **Simon AF**, Krantz ED (2005). *Long-lived flies with down-regulation of the steroid biosynthetic and signalling pathways*. 10th Annual UCLA Research Conference on Aging, June 22nd.
- A17. **Simon AF**, Shih C**, Benzer S (2001). *Steroid control of longevity in Drosophila melanogaster*. Caltech bioretreat.
- A18. **Simon AF**, Benzer S (2000). *Study of behavior through aging*. Caltech bioretreat.
- A19. **Simon AF**, Shih C**, Benzer S (2000). *Reduction of the level of ecdysone, a Drosophila steroid, increases lifespan and stress resistance*. Caltech bioretreat.

FACULTY/EDUCATIONAL WORKSHOPS

- E1. **Simon AF**, Mokruv K (2012). "Implementing student Independent Study and Research Programs". **York College Center for Excellence in Teaching and Learning workshop**, with the participation of Dr. Bai X, Teacher Education, Dr. Hansen I, Behavioral Sciences, Dr. Khandaker N, Earth & Physical Sciences, Dr. Rosenthal B, Social Sciences
- E2. **Simon AF**, Alter E (2011). "Calibrated Peer Review™ (CPR): a free web-based written assignment tool" **poster** for the York College 4th Annual Day of **Assessment and CETL Poster Session**: "How Do You Know What They Know? Increasing Formative Assessment".
- E3. **Simon AF** (2010). "Dealing with Student Incivility". **York College Center for Excellence in Teaching and Learning workshop** with the participation of Thomas Gibson, Assistant Dean, Student Development and Susan Bily-Lindner, Director of Counseling.
- E4. **Simon AF** (2010). "Calibrated Peer-Review: a free web-based written assignment tool". **York College Center for Excellence in Teaching and Learning workshop** with the participation of Dr. Cripps M., director of the Writing Across Curriculum program, and Gerard McNeil, Biology professor.
- E5. **Simon AF** (2010, 2011, 2012). "York IT Resources". **YC101 workshop, for first year Faculty**, with the participation of P Tighe, Chief Information Officer, E Levy, Media Resources Manager, G Vega, Director Service Delivery, W Huang-Stolte, Instructional Technologist and K Ahsan, Director, Network Infrastructure and Data Center.

PROFESSIONAL DEVELOPMENT

Workshops form the Centre for Teaching and Learning at Western University

Supporting Disclosures of GBSV November 02, 2021

Indigenizing the University October 10, 2021

Instructional Skills Workshop "online teaching" 6-week period, 10hrs/week May 20 – June 30, 2020

Leadership workshops Fall 2019, June 2022

Organized by Western Human resources, 6 courses

LEAD 6, The Five Practices of Exemplary Leadership (Leadership 360)- 3 ½ days workshop June 2022

LEAD 37, Disclosure of Sexual Viol November 02, 2021

LEAD 22, Courageous Leadership, based on "Dare to Lead" by Brenée Brown; 4 sessions of 2-hours Oct-Dec 2020

LEAD 7, Improving productivity February 11, 2020

LEAD 9, Communication Skills Leader Effectiveness model (LET) December 05, 2019

LEAD 3, Mental Health – Leader's Role October 22, 2019

LEAD 1, Leadership Competencies September 24, 2019

Intro to R workshops July 12-13, 2021

Presented by Western Data Science Solutions

Fall and Spring Perspectives on Teaching 2018, 19, 22

Organized by Western Teaching Support Center

Policy workshop on invitation only March 2018

3-day Science Policy capacity development workshop, organized by the Faculty of Science Dean's office

PRG – Pedagogy Reading Group Sept 17 - present

Participate to a journal club for pedagogy research on a monthly basis

WWiSERs Leadership series Sept 17 - present

Lead and participate to workshops organized by the Western Women in Science and Engineering Research (WWiSER), a group of female faculty in Science and Engineering at Western University.

PROFESSIONAL DEVELOPMENT (continued)

Teaching Squares – Western University	<i>Fall 2016</i>
Opportunity to gain new insight into their teaching through a process of reciprocal classroom observations	
Workshop on “Creating Gender Inclusive Classrooms and Universities”	<i>Jan 2016</i>
One-hour workshop designed to address the many ways to support student, faculty, and staff	
Workshop on “Getting the most out of Multiple-choice Questions”, Western University	<i>Jan. 2014</i>
Three-hours workshop designed to improve the construction of multiple-choice items exams.	
Course on Teaching at the University Level, Teaching Support Center, Western University	<i>Aug. 2013</i>
Four-days course, modeled after the Instructional Skills workshop	
York College CETL (Center for Excellence in Teaching and Learning) workshops	<i>Fall 2008 – May 2013</i>
Workshops organized by CETL at York-College CUNY to improve teaching approaches	
New Neuroscience Faculty Conference, Cold Spring Harbor Laboratory	<i>March 19, 2012</i>
Attended a national conference of limited attendance, organized by the NIMH and NINDS,	
Genomics & Bioinformatics Workshop	<i>January 19-21, 2010</i>
Located at CCNY. Aimed at introducing the nationwide Genomics Education Partnership (GEP) to the CUNY Faculty. One goal of GEP is to help bring genomics research into the undergraduate classroom.	
Preparing Future Faculty (PFF)	<i>2005 – 2006</i>
Weekly Classes at UCLA (Instructor Dr. Arlene Russel) to prepare of teaching, research and service	
Management courses	<i>2000 – 2003</i>
Took 10 courses at the Technology Learning Center of Caltech	

SERVICE**SERVICE TO THE BIOLOGY DEPARTMENT AT WESTERN UNIVERSITY**

Associate Chair (Undergraduate)	<i>July 2019 – June 2023</i>
Elected member of the APE	<i>July 2016 – July 2018</i>
Elected member of the Research committee	<i>Oct 2015 – July 2016</i>
Elected member of the Biology Undergraduate Education committee	<i>April 2014 – April 2016</i>
Teaching assignment coordinator, Led the Genetic curriculum evaluation	<i>Sept 2015 – May 2016</i>
Elected member of the social committee (member then chair)	<i>April 2014 – April 2016</i>

SERVICE TO WESTERN UNIVERSITY

Organizer and chair of NLP goal-getting sessions	<i>Fall 2017 – present</i>
Peer-mentoring using Neuro-linguistic programming (NLP) techniques to facilitate goal-setting and goal-getting. Monthly 2 hours meetings organized for women Faculty from diverse affiliations (psychology, history, biology).	
Founded and co-manage a writing group	<i>2014 – present</i>
Purpose: to provide an exchange platform and support from peers in their research writing goals to women Faculty from diverse departments through triweekly meeting	
Co-founded a research group: Western Behavioural Biology (WeBB) group	<i>2016 – 2017</i>
Co-founder: Dr. Moehring. Purpose of the research group: to facilitate meaningful interactions among the Community of researchers interested in behavioural biology, within and across departments.	

**SERVICE TO YORK COLLEGE AND THE CITY UNIVERSITY OF NEW-YORK**

Elected member of the Biology Department Personnel and Budget Committee	<i>July 2010 – 2013</i>
Sole non-tenured elected member	
Department Representative at the Faculty Senate York College, CUNY	<i>July 2011 – 2013</i>
Biotechnology Major Coordinator York College, CUNY	<i>Spring 2009 – 2013</i>

PROFESSIONAL**Conference organization**

- Local organizer of Genes, Brain and Behavior 2024 *June 2023 – June 2024*
 Annual Meeting of the International Behavioural and Neural Genetics Society)
 Symposium at the International Behavioral Neuroscience Society (IBNS) *June 2023*
 Co-organiser: Dr. Ariel Frame
 Symposium 15: Drosophila as a powerful model for testing molecular mechanisms governing behaviour

Conference judge

- OE3C (Ontario Ecology, Ethology and Evolution Colloquium), London, Ontario *2018*
 OBD (Ontario Biology Day), Wilfrid-Laurier, Ontario *2018*

Grant Panel

- FRQNT (Font de Recherche du Quebec –Nature et technologies) *Winter 2015, 16*
 Comité: NC01 : Sciences de la vie - Établissement de nouveaux chercheurs universitaires.

Grant Reviewer

- NFRF-FNRD LOI reviewer *Fall 19*
 NSF external reviewer *Fall 19*
 PSC-CUNY Research Award Program *Spring 2013-present*
 NSERC Discovery Grants *Winter 2016, 17*
 External reviewer for 3 grants in the 1502 and 1501 evaluation groups

Manuscripts reviewer

- 2000 – Present*
 Aging Cell, Animal Behaviour, Behavioral Ecology, Behavioural Brain Research,
 Behaviour Genetics, Current Opinion in Insect Science, Experimental Cell Research,
 Experimental Gerontology, Frontiers in Neural Circuits, Genes Brain and Behaviour,
 Insect Science, International Journal of Molecular Sciences, J. of Experimental Biology,
 J. of Visualized Experiments, Learning and Memory, Neurobiology of Aging, Neuroscience, PLOS One

Fellowships reviewer

- The John Douglas French Alzheimer's Foundation* *2000 – 2007*

COMMUNITY AND OUTREACH**School interactions**

- St. Mark's School in Southborough, MA., Mass, USA *Fall – Winter 2022*
 Assisted a high-schooler Sophie Chiang, in setting up her *Drosophila*
 research project for a high-school Science Fair.
- Partners In research Canada** *Sept 2018 – present*
and Centre franco-ontarien de ressources pédagogiques (CFORP)
 Virtual classroom interventions of ~45 min.
- Lord Dorchester Secondary School, Dorchester, ON** *June 2017*
 Presented a talk on research in genetic, using animal models to the gifted students of Linda Dutsch
- Marie Curie elementary school, French-language, London, ON**
 Presentation to 4th graders:
 “Carrière possible pour une femme : Enseignant chercheur en Génétique» *June 2018*
 Presentation to 5th-6th graders
 “Carrière possible pour une femme : Enseignant chercheur en Biologie» *May 2018*
 Presentation in kindergarten
 “Carrière en Sciences et Techniques qu'est-ce c'est un chercheur scientifique ?» *May 2018*
 Presentations in 2nd grade
 “Qu'est-ce-que la génétique?” *May 2017*
 “Chercheur en Biologie: comprendre le comportement en étudiant la mouche” *May 2015*
- Regina Mundi Catholic College, London, ON** *Winter 2015*
 Assisted a high-school biology teacher, John MacDougall, in setting up *Drosophila* laboratories.
- John Bowne High School in Queens and Commack High-School** *Spring 2011-2013*
 Assisted biology teachers, and their students in designing research projects.
- Santa Monica College (SMC)** *Spring 2007*
 Assisted two Biology Professors, Dr. Mary Colavito and Dr. Mary Bober in the obtaining a
 \$5000 SMC Margin of Excellence Mini-Grant to set up *Drosophila* social behavior experiments.

Science Fair Judge**Team Canada ISEF Selection Panel member***Winters 2015, 16, 18, 19*

Evaluated and interviewed the short-listed candidates and then selected the finalists who will represent Canada at the Intel International Science & Engineering Fair (ISEF).

Science Case Competition Judge*Fall 2014*

Western Undergrad student USCC synapse competition

Judge of Molecular Biology research projects*April 10 2011*

at The 2011 Research Association Invitational Science Fair, Syosset High School

Reviewed, evaluated applications and chaired a biology committee*2009 – 2011, 2013*

For New York Metro Junior Science High School Symposiums (NYMJSHS)

Career Mentor: Caltech Women Mentoring Women Program, Pasadena, CA*2002 – 2003*

Mentoring support to graduate students as they negotiated their professional, and personal development.

Media coverage**Interview for Spectrum (Spectrum is the News & Opinion section of SFARI.org)***Nov 20- Aug 21*

SFARI is the Simons Foundation autism Research initiative.

Article about animal models of autism by Sarah Deweedt, published Oct 2021

Press coverage for Article: “Modulation of social behavior by dopamine in *Drosophila melanogaster*...”*2017*

Journal Interviews : Daily Mail, CBC Radio London, London Free Press

TV interview: CTV News London, “Bugging Out” by Celine Moreau

Radio interviews:

- **RCI (Radio Canada International), with Marc Montgomery, Live with Wei Chen**, the host of Ontario Morning on CBC Radio (8/11/17 – 6:50 am), **Live with Chris de la Torre**, the afternoon host of CBC RadioLondon (8/9/17 – 4:45pm), **106.9 The X** – Jesse LaFramboise (8/11/17), **The TKO Show with Kara Ro**, on CJBK 1290 Radio (AM) locally and in Windsor/Detroit on CKLW AM800 (8/17/17).

Other coverage:

- **Western News, EurekAlert!**
 - Story also picked up, for example, by: **NSERC tweet, Science Daily, Health Medicine Network,**
 - **NY Post:** “Why some people have zero sense of personal space: study” by Leah Bitsky
-