

# Repositioning altmetrics: From metrics to indicators of research strengths

BRIC 2021 – 29<sup>th</sup> April 2021

Rajiv Nariani, Science Librarian  
York University, Toronto, Canada

## Maternal instincts lead to social life of bees

March 9, 2021 |

The maternal care of offspring is one of the behavioural drivers that has led some bee species to have an ever-expanding social life over the history of evolution, new research out of York University has found.

By virtue of being in a social group, the genome itself may respond by selecting more social rather than non-social genes. The behaviour and social environment come first, setting the stage for future molecular evolution.



The face of Ceratina calcarate female carpenter bee. Photo by Sandra Rehan

## communications biology

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Article | [Open Access](#) | **Sandra M. Rehan**  
Department of Biology, York University, Toronto, ON, Canada  
[Contact Sandra M. Rehan](#)  
[View author publications](#) You can also search for this author in [PubMed](#) [Google Scholar](#)

Wyatt A. Shell, Michael  
Severin, Amy L. Toth & [Sandra M. Rehan](#)

*Communications Biology* **4**, Article number: 253 (2021) | [Cite this article](#)

1534 Accesses | [152 Altmetric](#) | [Metrics](#)

## Abstract

While it is well known that the genome can affect social behavior, recent

## Sociality sculpts similar patterns of molecular evolution in two independent lineages



About this Attention Score  
In the top 5% of all research outputs scored by Altmetric

Mentioned by  
18 news outlets  
3 blogs  
47 researchers

Readers on  
14 Mendeley

What is this page?

SUMMARY News Blogs Twitter

**Title** Sociality sculpts similar patterns of molecular evolution in two independently evolved lineages of social bees  
**Published in** *Communications Biology*, February 2021  
**DOI** 10.1038/s42003-021-01774-4 [CIP](#)  
**Published ID** 13037860 [CIP](#)  
**Authors** Wyatt A. Shell, Michael A. Shell, Hannah K. Paris, Aydin S. Seifshahi, Andrew J. Severin, Amy L. Toth, [Sandra M. Rehan](#)

TWITTER DEMOGRAPHICS

The data shown below were collected from the profiles of 47 tweeters who shared this research output. [Click here to find](#)





# Bees & AAS @ YU

YORK U

Popular Links

## BEEC: Bee Ecology, Evolution and Conservation

About Us News and Blog World Bee Day 2020 BeeCon Research Current Opportunities Contact Us



Welcome to BEEC;  
bee ecology,  
evolution and  
conservation

## BEEC - Bee Ecology, Evolution and Conservation York University creates new hive of interdisciplinary bee

Welcome to BEEC – an interdisciplinary research  
strives to advance research in the  
evolution and conservation.

July 1, 2020

### MISSION:

The mission of BEEC is to foster interdisciplinary, in  
research to be used for the advancement of knowle  
changes to help sustain pollinators globally.

Researchers from disciplines across York University, including biologists, social scientists and  
mathematicians, will develop a hive of research when York's new Centre for Bee Ecology, Evolution  
and Conservation (BEEC) becomes an Organized Research Unit starting July 1.

development and survival



## Conservation Genomics of the Declining North American Bumblebee Inbreeding and Selection on Immune Genes

Overview of attention for article published in Frontiers in Genetics, August 2018



About this Attention Score

In the top 5% of all research  
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SUMMARY News Blogs Twitter Facebook Google+ Dimensions citations

**Title** Conservation Genomics of the Declining North American Bumblebee *Bombus terricola* Reveals Inbreeding and Selection on Imm  
**Published in** Frontiers in Genetics, August 2018  
**DOI** 10.3389/fgene.2018.00316  
**Pubmed ID** 30147708  
**Authors** Clement F. Kent, Alivia Dey, Harshikumar Patel, Nadejda Tsvetkov, Tanushree Tiwari, Victoria J...  
**Abstract** The yellow-banded bumblebee *Bombus terricola* was common in North America but has recently declined...

TWITTER DEMOGRAPHICS

MENDELEY READERS

The data shown below were collected from the profiles of 29 tweeters who shared this research output. [Click here to find](#)

## Population genomics of the honey bee reveals strong signatures of positive selection on worker traits

Brock A. Harpur<sup>a,1</sup>, Clement F. Kent<sup>a,1,2</sup>, Daria Molodtsova<sup>a</sup>, Jonathan M. D. Lebon<sup>a</sup>, Abdulaziz S. Alqarni<sup>c</sup>,  
Ayman A. Owayss<sup>c</sup>, and Amro Zayed<sup>a,3</sup>

<sup>a</sup>Department of Biology and <sup>b</sup>Department of Computer Science and Engineering, York University, Toronto, ON, Canada M3J 1P3; and <sup>c</sup>Department of Plant  
Protection, College of Food and Agriculture Sciences, King Saud University, Riyadh 11451, Kingdom of Saudi Arabia

Edited by Joan E. Strassmann, Washington University in St. Louis, St. Louis, MO, and approved

2614-2619 | PNAS | February 18, 2014 | vol. 111 | no. 7

Most theories used to explain the evolution of eusociality rest less sensitive



## 'Bee Hotels' as Tools for Native Pollinator Conservation: A Premature

Overview of attention for article published in PLoS ONE, March 2015



About this Attention Score

SUMMARY News Blogs Twitter Facebook Reddit Dimensions citations

**Title** 'Bee Hotels' as Tools for Native Pollinator Conservation: A Premature Verdict?  
**Published in** PLoS ONE, March 2015  
**DOI** 10.1371/journal.pone.0122126  
**Pubmed ID** 25785609  
**Authors** J. Scott MacIvor, Laurence Packer  
**Abstract** Society is increasingly concerned with declining wild bee populations. Although most bees nest in...

TWITTER DEMOGRAPHICS

MENDELEY READERS



## Chronic exposure to neonicotinoids reduces honey bee health near corn crops

Overview of attention for article published in Science, June 2017



About this Attention Score

In the top 5% of all research  
outputs scored by Altmetric

Mentioned by

109 news outlets  
19 blogs

SUMMARY News Blogs Policy documents Twitter Facebook Wikipedia Google+ Red

You are seeing a free-to-access but limited selection of the activity Altmetric has collected about this research output.

**Title** Chronic exposure to neonicotinoids reduces honey bee health near corn crops  
**Published in** Science, June 2017  
**DOI** 10.1126/science.aam7470  
**Pubmed ID** 28663503  
**Authors** N. Tsvetkov, O. Samson-Robert, K. Sood, H. S. Patel, D. A. Malena, P. H. Gajiwala, P. Maciukiewicz...  
**Abstract** Experiments linking neonicotinoids and declining bee health have been criticized for not...

TWITTER DEMOGRAPHICS

MENDELEY READERS

The data shown below were collected from the profiles of 187 tweeters who shared this research output. [Click here to find out more about how the](#)


# New study shows customer attitudes influenced by how salespeople talk

February 1, 2021

One of life's most common complaints is frustration with customer service. Generic statements like, "Did you find everything you're looking for?", "Can I help you?", or "Anything else today?" can make the customer feel like they're just another cog in the wheel of big business – that nobody is actually listening to their personal needs. With the pandemic, now more than ever, the few human conversations customers have with businesses are even more important.

New studies published in the February 2021 issue of the *Journal of Consumer Research* explore how a subtle aspect of how people talk – known as linguistic concreteness – can have an important impact on customers' attitudes, purchase intentions, and even their actual purchases.

43




"How Concrete Language Shapes Customer Satisfaction"

Packard, G. and Berger J. (2021)

[Published Article](#) (Free / Open Access)

121




"Thinking of You: How Second Person Pronouns Shape Cultural Success"

Packard, G. and Berger, J. (2020)

[Published Article](#) | [Working Paper](#)

179




"Many Labs 2: Investigating Variation in Replicability Across Sample and Setting"

Klein et al. (Packard, G. one of 185 replication lab collaborators) (2018)

[Published Article](#)

55




"Are Atypical Things More Popular?"

Berger, J. and Packard, G. (2018)

[Published Article](#) | [Working Paper](#)

32



"(I'm) Happy to Help (You): The Impact of Personal Pronoun Use in Customer-Firm Interactions"

Packard, G., Moore, S. G., and McFerran, B. (2018)

[Published Article](#) | [Working Paper](#)

- freshwater fisheries
- habitat alteration on lakes

For more information go to

- Sharma Lab
- Media Release: New lake surface temperature database will help to study climate change
- Toronto Star - Great Lakes are warming more than twice as fast as the oceans, new study says
- Radio Canada International - New research: world's lakes rapidly warming
- Discovery News - Climate Change Is Heating Lakes Rapidly
- YouTube - YorkU Science: Sapna Sharma Research
- National Geographic - Japanese Monks Recorded the Climate for 700 Years
- National Geographic - Lake Suwa's Shinto Legend and the Oldest Lake Ice Record on Earth: What It Tells Us About Climate Change and Variability
- CBC Radio: Quirks & Quarks - Priests and traders collected climate data 600 years ago
- CBC Radio: Quirks & Quarks - World's Lakes Are In Hot Water
- Radio Canada International - The Link
- Radio Canada International - Human records confirm climate



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## Let's do better: public representations of COVID-19 science

Timothy Caulfield<sup>a</sup>, Tania Bubela<sup>b</sup>, Jonathan Kimmelman<sup>c</sup>, and Vardit Ravitsky<sup>d</sup>

<sup>a</sup>Health Law and Policy, University of Alberta, Edmonton, AB T6G 2H5, Canada; <sup>b</sup>Faculty of Health Sciences, Simon Fraser University, Burnaby, BC V5A 1S6, Canada; <sup>c</sup>Biomedical Ethics Unit, McGill University, Montreal, QC H3A 1X1, Canada; <sup>d</sup>Department of Social and Preventive Medicine, Université de Montréal, Montréal, QC H3C 3J7, Canada

\* [caulfield@ualberta.ca](mailto:caulfield@ualberta.ca)

## Abstract

COVID science is being both done and circulated at a furious pace. While it is inspiring to see the research community responding so vigorously to the pandemic crisis, all this activity has also created a churning sea of bad data, conflicting results, and exaggerated headlines. With representations of science becoming increasingly polarized, twisted, and hyped, there is growing concern that the relevant science is being represented to the public in a manner that may cause confusion, inappropriate expectations, and the erosion of public trust. Here we explore some of the key issues associated with the representations of science in the context of the COVID-19 pandemic. Many of these issues



# Altmetric Explorer: Select top articles from YU



Free Librarian  
Account

Exploring data for **all research outputs** with PubMed query ("**york university**"[Affiliation]) NOT ("**new york**"[Affiliation] OR "**lnew york**"[Affiliation])

EDIT SEARCH

Quick search...

Showing **4,654 research outputs** from the results of your search query. Of those, **4,318** have been mentioned.

EXPORT THIS TAB

Next →

Sort by: Altmetric Attention Score (Highest first)



The implications of silent transmission for the control of COVID-19 outbreaks  
Article in **Proceedings of the National Academy of Sciences of the United States of America**, July 2020



Once-Weekly Semaglutide in Adults with Overweight or Obesity  
Article in **New England Journal of Medicine**, March 2021



Association Between Maternal Fluoride Exposure During Pregnancy and IQ Scores...  
Article in **JAMA Pediatrics**, October 2019



Global Demand for Natural Resources Eliminated More Than 100,000 Bornean...  
Article in **Current Biology**, March 2018



Do not violate the International Health Regulations during the COVID-19 outbreak  
Article in **The Lancet**, February 2020



Mapping 123 million neonatal, infant and child deaths between 2000 and 2017  
Article in **Nature**, October 2019



Observation of the 1S–2S transition in trapped antihydrogen  
Article in **Nature**, December 2016



Obesity in adults: a clinical practice guideline  
Article in **Canadian Medical Association Journal**, August 2020



The basic reproduction number (R<sub>0</sub>) of measles: a systematic review  
Article in **Lancet Infectious Diseases**, December 2017



Background levels of methane in Mars' atmosphere show strong seasonal variations  
Article in **Science**, June 2018



Physical Activity/Exercise and Diabetes: A Position Statement of the American...  
Article in **Diabetes Care**, October 2016



Chronic exposure to neonicotinoids reduces honey bee health near corn crops  
Article in **Science**, June 2017



A neonicotinoid insecticide reduces fueling and delays migration in songbirds  
Article in **Science**, September 2019



Climate change impacts on bumblebees converge across continents  
Article in **Science**, July 2015



Mars methane detection and variability at Gale crater  
Article in **Science**, December 2014



Secular differences in the association between caloric intake, macronutrient...  
Article in **Obesity Research & Clinical Practice**, May 2016



Bilingualism: consequences for mind and brain  
Article in **Trends in Cognitive Sciences**, April 2012

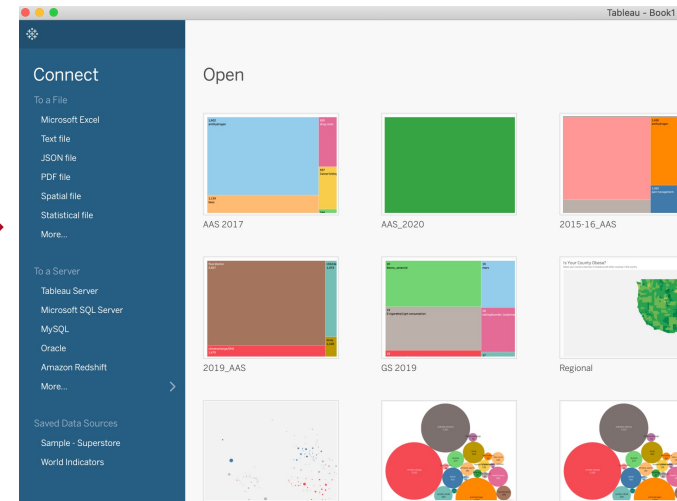


Relative effectiveness of additive pain interventions during vaccination in...  
Article in **Canadian Medical Association Journal**, December 2016

# Using Altmetric Explorer

- PubMed affiliation search for York University : Altmetric Explorer for Librarians – (Scopus, WoS, YFile)
- Download article metadata - high AAS - look up Google Scholar Citations for the same
- Plot top areas in Tableau
- Understanding the top research areas & implications

A	B	C	D	E	F
ion Year	Title	Journal	Altmetric Score	GoogSchir Citat	OA/Subscriptic
Feb-17	<a href="#">Industry sponsorship and research outcome</a>	Cochrane Libr.	614	1415	open
Jan-17	<a href="#">ecology under lake ice</a>	Ecology Letters	212	170	open
Mar-17	<a href="#">ten simple rules for short and swift presentations</a>	PLoS comput biology	160	15	open
Mar-17	<a href="#">crosSPARC algorithms for rapid unsupervised cove-EM structure determination</a>	Nature Methods	130	1290	open(ys)
Mar-17	<a href="#">Risk of firearm injuries among children and youth of immigrant families</a>	CMAJ	142	14	open(lmc)
Jan-17	<a href="#">Observation of the LSD25 transition in trapped antihydrogen</a>	Nature2	1383	134	open
Jun-17	<a href="#">Chronic exposure to neonicotinoids reduces honey bee health near corn crops</a>	Science	1139	269	open(rg)
Jun-17	<a href="#">Can cancer researchers accurately judge whether preclinical reports will reproduce?</a>	PLoS Biology	557	19	open
Nov-17	<a href="#">Examining Children's Implicit Racial Attitudes Using Exemplar and Category-Based Measures</a>	Child Development	94	34	open
Nov-17	<a href="#">Imidacloprid and chlorpyrifos insecticides impair migratory ability in a seed-eating songbird</a>	Scientific Reports	544	85	open
Jan-17	<a href="#">Penitentes as the origin of the bladed terrain of Tartarus Dorsa on Pluto</a>	Nature1	399	32	open(rg)
Aug-17	<a href="#">Observation of the superline spectrum of antihydrogen</a>	Nature4	219	105	open
Oct-17	<a href="#">Parental Outcomes Following Participation in Cognitive Behavior Therapy for Children with Autism Spectrum Disorder</a>	J. of Aut. and Developmtl Disorders	146	18	open
Oct-17	<a href="#">Comparative safety of direct oral anticoagulants and warfarin in venous thromboembolism: multicentre, population based, observational study</a>	British Med. Journal	163	63	open
Jul-17	<a href="#">The perniciousness of perfectionism: A meta-analytic review of the perfectionism-suicide relationship</a>	Journal of Personality	355	128	open
May-17	<a href="#">Differences between measured and reported volatile organic compound emissions from oil sands facilities in Alberta, Canada</a>	PNAS	171	59	open
Jun-17	<a href="#">Hydrologic monitoring tools for freshwater municipal planning in the Arctic: the case of Iqaluit, Nunavut, Canada</a>	Environmental Science and Pollution Research	110	4	no
Aug-17	<a href="#">Activated NK cells cause placental dysfunction and miscarriages in fetal alloimmune thrombocytopenia</a>	Nature Communications	102	51	open
May-17	<a href="#">Lesions to polar/orbital prefrontal cortex selectively impair reasoning about emotional material</a>	Neuropsychologia	100	7	open(lmc)
Apr-17	<a href="#">Millions of Boreal Shield Lakes can be used to Probe Archaean Ocean Biogeochemistry</a>	Scientific Reports1	98	18	open
Feb-17	<a href="#">Formulation of evidence-based messages to promote the use of physical activity to prevent and manage Alzheimer's disease</a>	BMC Public Health	95	32	open





# AE: Recent top articles\_YU

Sort by: Publication date (Newest first)

Next



Sex differences in maladaptive emotional and behavioral responses to COVID-19:...

Article in **Personality & Individual Differences**, August 2021



Antimicrobial resistance research in a post-pandemic world: Insights on...

Article in **Journal of Global Antimicrobial Resistance**, June 2021



Bilingualism: Pathway to Cognitive Reserve

Article in **Trends in Cognitive Sciences**, May 2021



Open access tool and microfluidic devices for phenotypic quantification of...

Article in **Computers in Biology & Medicine**, May 2021



Modeling ligand electrochemical parameters by repulsion-corrected eigenvalues

Article in **Journal of Computational Chemistry**, April 2021



A review and comparison of breast tumor cell nuclei segmentation performances...

Article in **Scientific Reports**, April 2021



'It's not the science we distrust; it's the scientists': Reframing the anti...

Article in **Global Public Health**, April 2021



Quantifying the separability of data classes in neural networks

Article in **Neural Networks**, July 2021



Copper and chromium exposure affect chironomid larval microbiota composition

Article in **Science of the Total Environment**, June 2021



Mindreading in conversation

Article in **Cognition**, May 2021



Evaluation of COVID-19 vaccination strategies with a delayed second dose

Article in **PLoS Biology**, April 2021



White Matter Abnormalities in Retired Professional Rugby League Players with a...

Article in **Journal of Neurotrauma**, April 2021



The effectiveness of travel restriction measures in alleviating the COVID-19...

Article in **Environmental Geochemistry & Health**, April 2021



Placing sensors in sewer networks: A system to pinpoint new cases of coronavirus

Article in **PLoS ONE**, April 2021



Applicability of ground source heat pumps as a bioremediation-enhancing...

Article in **Science of the Total Environment**, July 2021



Post-exercise recovery for the endurance athlete with type 1 diabetes: a...

Article in **The Lancet Diabetes & Endocrinology**, May 2021



Electroconvulsive therapy with a memory reactivation intervention for post...

Article in **Brain Stimulation**, May 2021



Phenological shifts in lake stratification under climate change

Article in **Nature Communications**, April 2021



Exploring risk factors at the molecular level

Article in **eLife**, April 2021



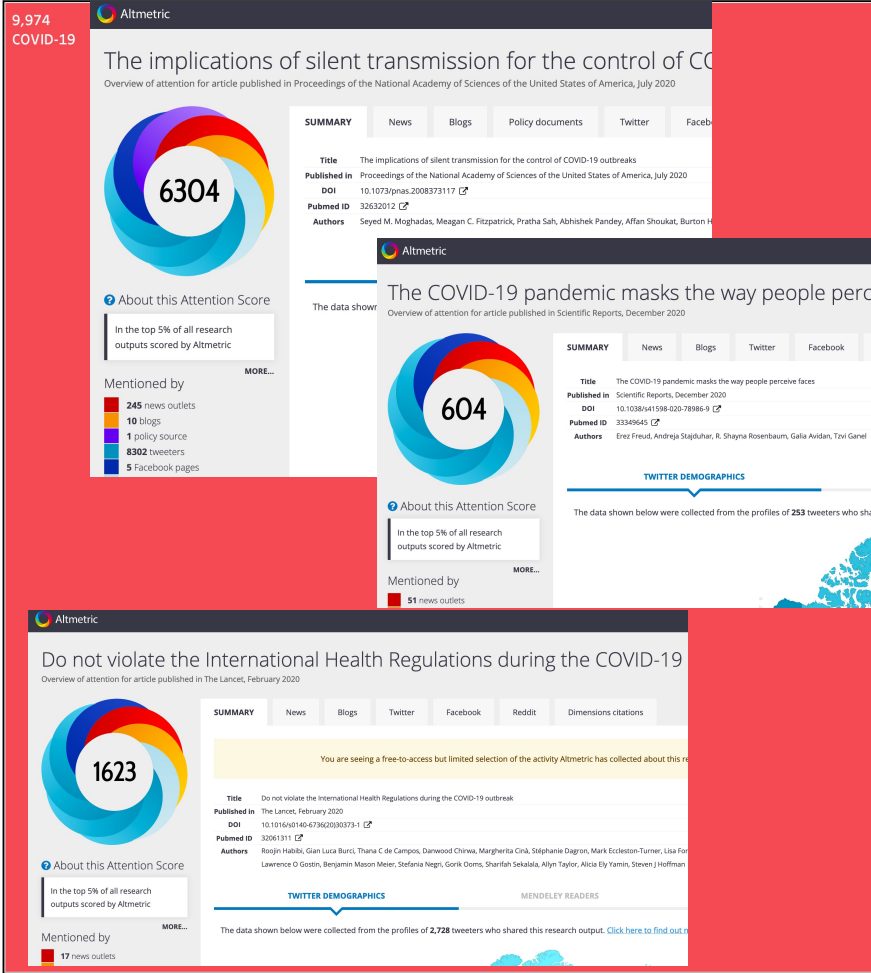
Prediction of personal protective equipment use in hospitals during COVID-19

Article in **Health Care Management Science**, April 2021



A case-control study of visual, auditory and audio-visual sensory interactions...

Article in **Journal of Vision**, April 2021



Senate approves two new ORUs: Bee Ecology and Indigenous Knowledges & Languages

- Topic
- Alzheimer's Bili..
  - Alzheimer's dise..
  - antimatter
  - antimicrobial re..
  - autism
  - bees
  - Benu\_asteroid
  - chlorophyll/lakes
  - climatechange
  - CO2 emissions
  - COVID-19
  - dengue fever
  - drug costs
  - fatigue/exercise
  - food insecurity
  - food\_diet
  - Galaxy evolution
  - genderdifferenc..
  - Indigenous Peop..
  - infant/pain man..
  - language\_cultur..
  - meteorite\_anal..
  - music\_emotion
  - Nature Conserv..
  - nursing care/div..
  - obesity
  - tuberculosis
  - vaccines
  - vision/retina
  - vision research



# COVID-19 – YFile @ YU: 2020 and continuing....



York University researchers are involved in a wide range of rapid research projects related to COVID-19. For information about more CIHR-funded projects at York, see these stories:

- Researchers at York University receive funding for rapid research on COVID-19
- New COVID-19 rapid research funding for York professors
- York researchers receive \$1.1 million in COVID-19 research funding

## Rapid research on COVID-19 impacts will focus on mental health services

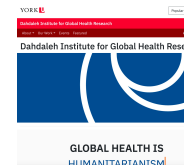
October 13, 2020

Two York University projects focussed on mental health services during the COVID-19 pandemic have received a total of \$368,000 in funding from the Canadian Institutes of Health Research to do rapid research over the next year.

Wu's research will bring frontline researchers from China together with experts in trust and public health in Canada and Sweden to explore people's trust in government, health agencies, and in other people and groups during a time of crisis. He will look at how their level of trust shapes public responses to COVID-19, such as compliance with control policies and methods of prevention, but also, how disease outbreaks affect those levels of trust and can lead to a rise in xenophobia.



Cary Wu



DAHDALEH INSTITUTE  
COVID-19 Information Portal

Topics Developments Resources About

Welcome to the

## Dahdaleh Institute: Covid-19 Portal

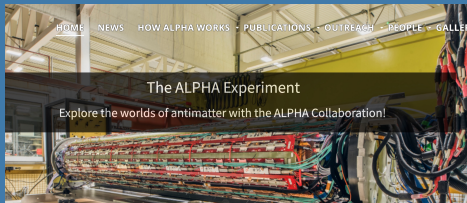
We seek to support humanitarian response to COVID-19 through summaries and analysis, actionable resources, and a framework for understanding COVID-19 as a global public health emergency.



KAHS in NEJM (visiting YU  
author and has own clinical  
practice)

2,958  
obesity

641  
antihydrogen



multiple authors

152  
bees

Since  
2014

142  
COVID-19  
sleep

133  
COVID-19\_Skinproblems

94  
chronic pain mngmt

91  
COVID-19\_social  
capital

75  
overconfidence  
transmission  
hypot.

122  
COVID-19\_diagnosis

58  
US\_Socialtrust

45  
COVID-19  
antimicrobial  
resist.

43  
customer  
service

41  
COVID-19  
vaccination

119  
heart failure

55  
asthma\_public  
health

34  
drug costs

20  
COVID-19  
pandemic  
recovery

18  
COVID-19  
pandemic  
recovery

115  
neuroscience\_CVR

51  
COVID-19  
caregivers

27  
sexual\_behav

12  
COVID-19  
spike\_prot

9  
sewer

23  
bilingualism

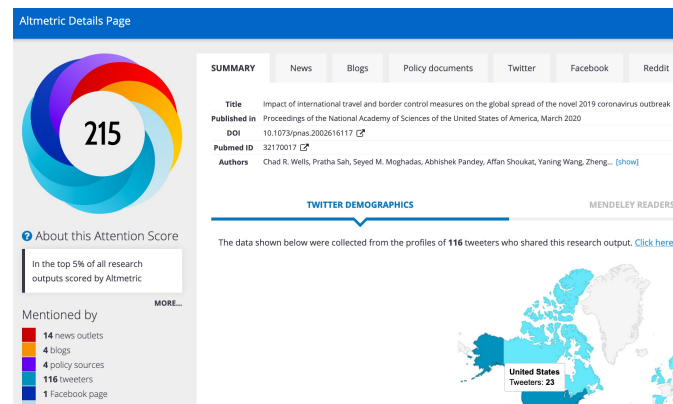
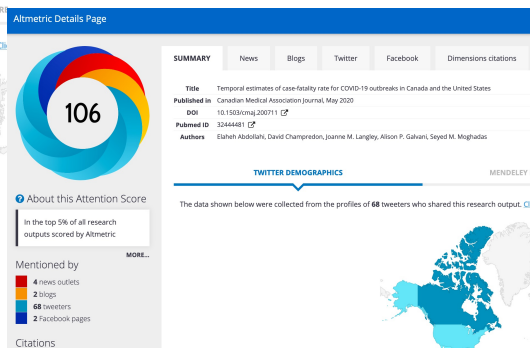
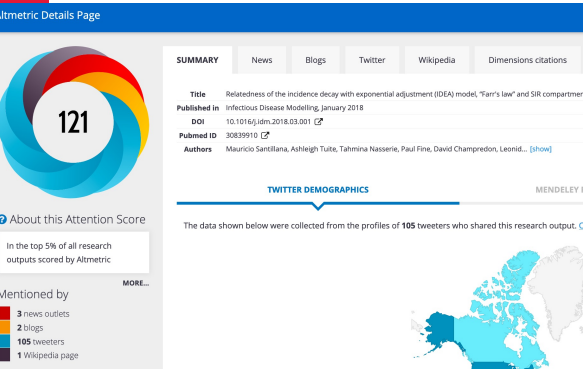
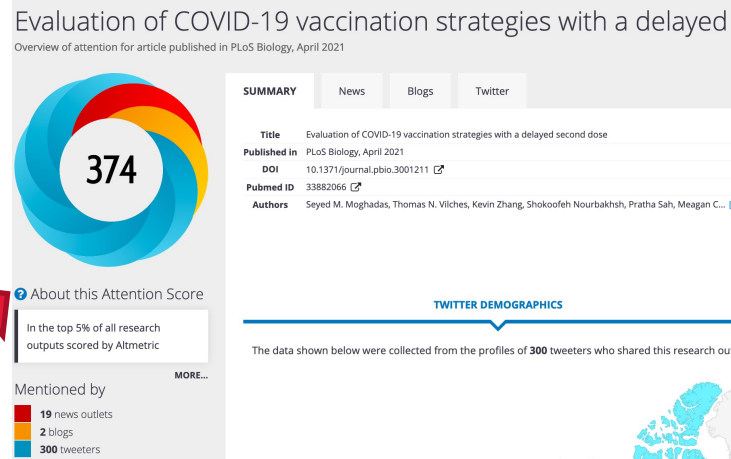
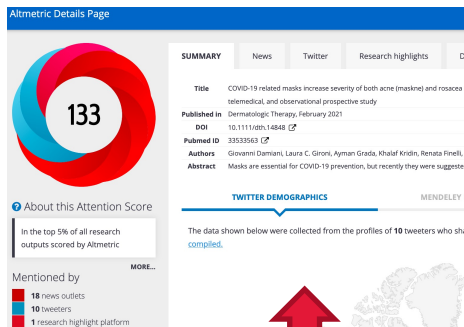
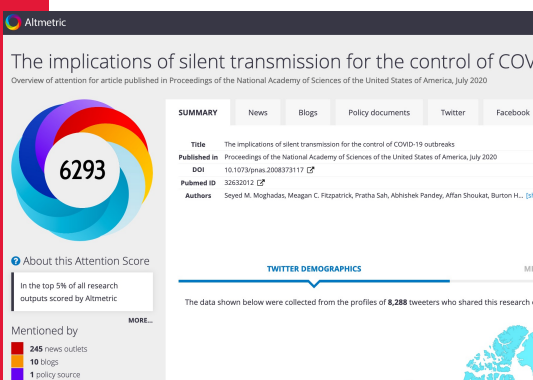
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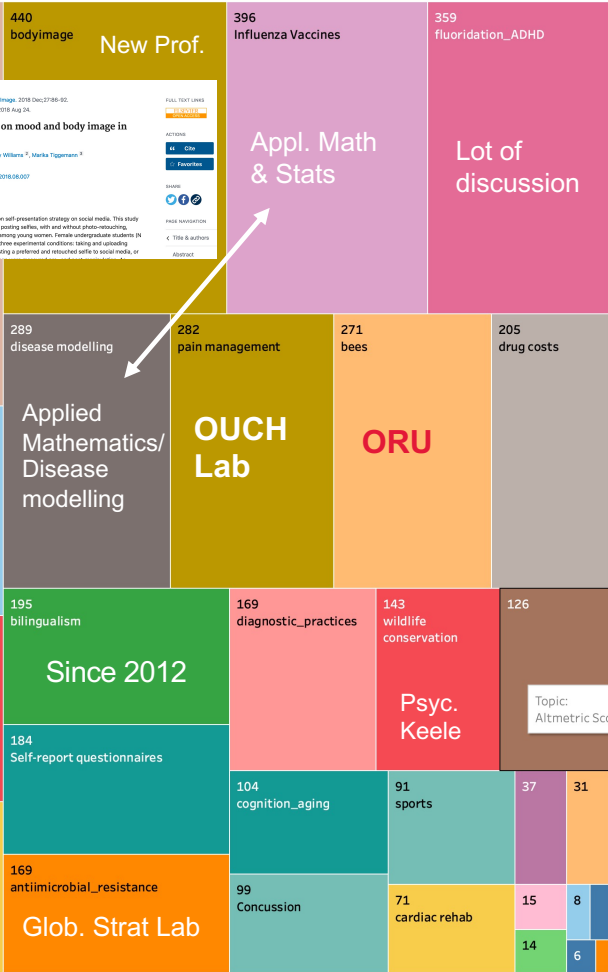
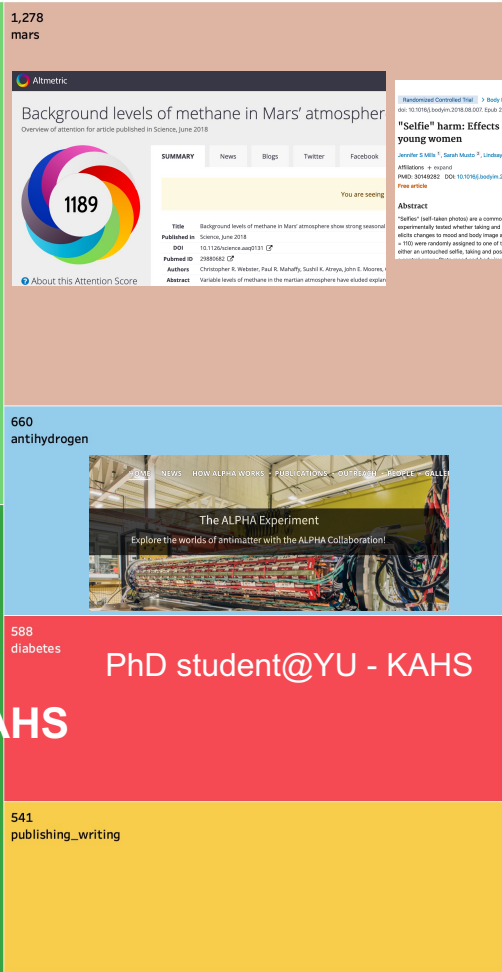
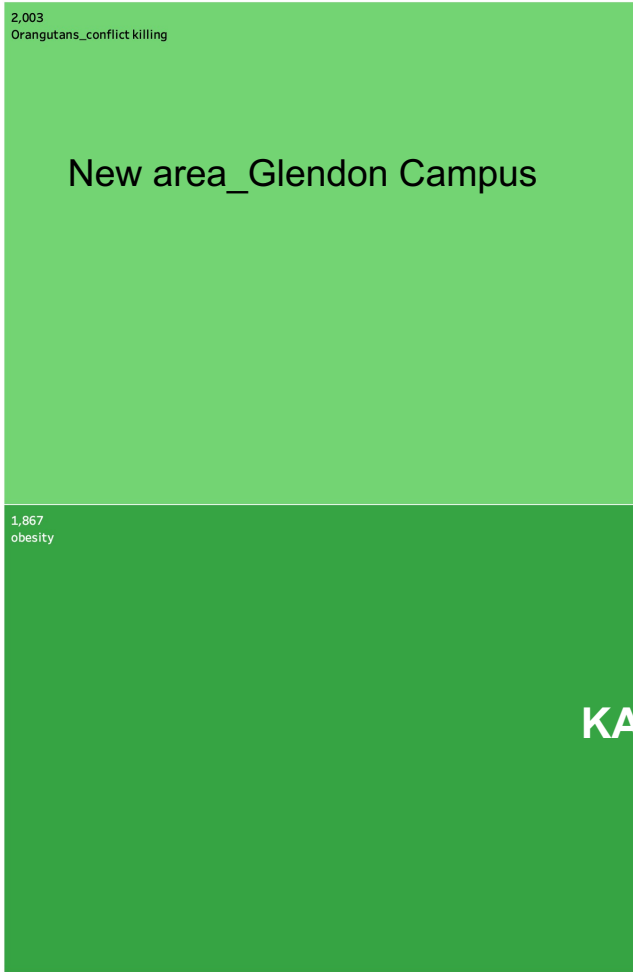
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PPE

Topic

- antihydrogen
- asthma\_public h..
- bees
- bilingualism
- chronic pain mn..
- climatechange
- COVID-19\_anti..
- COVID-19\_careg..
- COVID-19\_diagn..
- COVID-19\_pand..
- COVID-19\_PPE
- COVID-19\_sewe..
- COVID-19\_Skinp..
- COVID-19\_sleep
- COVID-19\_socia..
- COVID-19\_spike..
- COVID-19\_trave..
- COVID-19\_Vaccl..
- customer servic..
- diabetic retinop..
- drug costs
- heart failure
- neuroscience\_C..
- obesity
- overconfidence ..
- Parkinson's dise..
- sexual\_behav
- US\_Socialtrust







- Topic
- ALS
  - antihydrogen
  - antiimicrobial\_resi..
  - bees
  - bilingualism
  - birds
  - bodyimage
  - cardiac rehab
  - cognition\_aging
  - Concussion
  - diabetes
  - diagnostic\_practic..
  - disease modelling
  - drug costs
  - fluoridation\_ADHD
  - GMOs
  - healthcare
  - Influenza Vaccines
  - learning\_memory
  - mars
  - microRNA
  - mitochondria
  - Mother-Child Relat..
  - mRNA translation
  - obesity
  - Orangutans\_confli..
  - pain management
  - publishing\_writing
  - Self-report questio..
  - sports
  - wildlife conservati..

Topic: learning\_memory  
Altmetric Score: 126



1,602  
antihydrogen

HOME NEWS HOW ALPHA WORKS PUBLICATIONS OUTREACH PEOPLE CALLS

The ALPHA Experiment

Explore the worlds of antimatter with the ALPHA Collaboration!

ALPHA (Antihydrogen Laser Physics Apparatus) is an international collaboration based at CERN, and which is working with trapped antihydrogen atoms, the antimatter counterpart of the simplest atom, hydrogen. By precise comparisons of hydrogen and antihydrogen, the experiment hopes to study fundamental symmetries between matter and antimatter.

1,351  
bees

garnering attention since 2014

YORK U

BEEc: Bee Ecology, Evolution and Conservation

ABOUT US News and Blog World Bee Day 2020 BEEc Can Research Current Opportunities Contact Us

Welcome to BEEc: bee ecology, evolution and conservation

BEEc - Bee Ecology, Evolution and Conservation

Welcome to BEEc – an interdisciplinary initiative that strives to advance research in the fields of bee ecology, evolution and conservation.

MISSION: The mission of BEEc is to foster interdisciplinary, innovative, collaborative, and cutting-edge research to be used for the advancement of knowledge and implementation of policy changes to help sustain pollinators globally.

1,258  
measles

Review

> Lancet Infect Dis. 2017 Dec;17(12):e420-e428.

doi: 10.1016/S1473-3099(17)30307-9. Epub 2017 Jul 27.

The basic reproduction number ( $R_0$ ) of measles: a systematic review

Fiona M Guerra<sup>1</sup>, Shelly Bolotin<sup>2</sup>, Gillian Lim<sup>1</sup>, Jane Heffernan<sup>3</sup>, Shelley L Deeks<sup>2</sup>, Ye Li<sup>1</sup>, Natasha S Crowcroft<sup>4</sup>

855  
drug costs

Prof. writing since 2012

571  
Autism

YORK U

Chair in Autism Spectrum Disorders Treatment and Care Research

Home About the Chair Autism Spectrum Disorders Research Summaries Media & News Contact Us

ABOUT THE CHAIR

We aim to identify risk factors related to mental health problems in people with Autism Spectrum Disorder, address these factors and associated mental health problems using novel treatments, and study how people with autism and their family caregivers access mental health care across the country.

AUTISM SPECTRUM DISORDERS

557  
Cancer biology

544  
birds

399  
Pluto

379  
climatechange

355  
perfectionism

315  
racialbias\_Policing

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Prof. Mitra

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healthcare

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Topic

aging dementia

antihydrogen

Autism

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birds

brain damage

Cancer biology

cardiac\_rehab

child\_devlpmt

child\_injury

climatechange

Cryoelectron Micro..

dental care

drug costs

ecology

healthcare

LGBTQ\_homeless

measles

miscarriages

pain management

perfectionism

Pluto

racialbias\_Policing

water microbiol

wildlife conservati..

writing

Topic: LGBTQ\_homeless

Altmetric Score: 40

1,424  
drug costs

Google Scholar

industry sponsorship and research outcome

Articles

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Since 2021

Since 2020

Since 2017

Custom range...

**Industry sponsorship and research outcome**

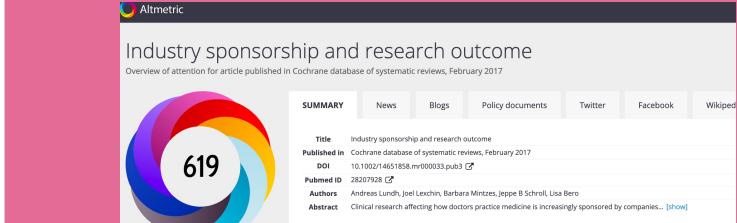
A Lundh, J Lexchin, B Mintzes... - Cochrane Database ..., 2017 - cochranelibrary.com

Background Clinical research affecting how doctors practice medicine is increasingly sponsored by companies that make drugs and medical devices. Previous systematic reviews have found that pharmaceutical-industry sponsored studies are more often ...

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Full View



1,290  
Cryo-electron Microscopy

**cryoSPARC: algorithms for rapid unsupervised cryo-EM structure determination**

A Punjani, JL Rubinstein, DJ Fleet, MA Brubaker - Nature methods, 2017 - nature.com

Single-particle electron cryomicroscopy (cryo-EM) is a powerful method for determining the structures of biological macromolecules. With automated microscopes, cryo-EM data can often be obtained in a few days. However, processing cryo-EM image data to reveal heterogeneity in the protein structure and to refine 3D maps to high resolution frequently becomes a severe bottleneck, requiring expert intervention, prior structural knowledge, and weeks of calculations on expensive computer clusters. Here we show that stochastic ...

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- topic
- aging dementia
  - antihydrogen
  - Autism
  - bees
  - behavioral inter
  - birds
  - brain damage
  - Cancer biology
  - cardiac\_rehab
  - child\_devpmt
  - child\_injury
  - climatechange
  - Cryo-electron Microscopy
  - dental care
  - drug costs
  - ecology
  - healthcare
  - LGBTQ\_homeless
  - measles
  - miscarriages
  - pain management
  - perfectionism
  - Pluto
  - racialbias\_Polici
  - water microbiol
  - wildlife conserv
  - writing

Topic: child\_devpmt  
GoogSchlr Citat: 34

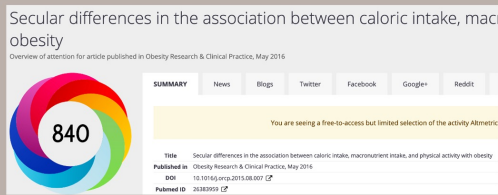
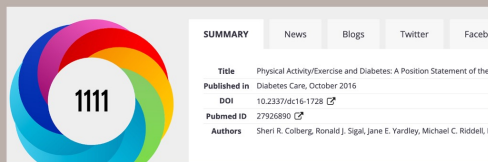
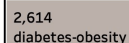
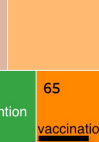
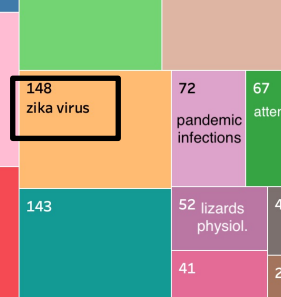
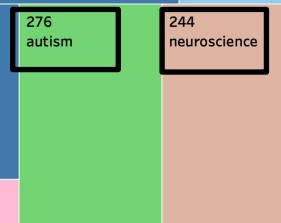
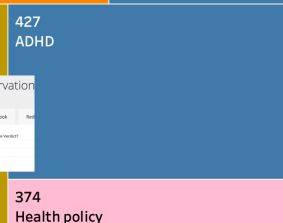
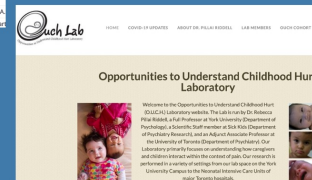
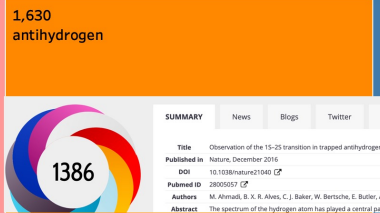
## Spearman's Rank Order Correlation: AAS & Google Scholar

2021	2020	2019	2018	2017
0.33	0.38	0.59	0.64	0.63
AAS- RANK	GS - RANK	<b>Spearman's Rho</b> $= 1 - 6 * \text{Sum of Diff Sqd} / (\text{Observations} * 3 - \text{No. of Observations})$		





Prof. was using AAS since 2016



York students & faculty with high attention articles: What are they doing now?

# Newly Developed Algorithms May Revolutionize Drug Discoveries



## U of T News

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Run by brother-sister team, this U of T startup is leading Big Pharma out of the dark



## About

Cryo-EM is a recent Nobel Prize-winning technique for microscopy and 3D reconstruction of proteins and other sample containing proteins and protein-ligand complexes is frozen in a thin film of ice and subsequently imaged by a microscope. The resulting microscopy data is analyzed via complex algorithms to identify the contents of the atomic structures of the embedded protein molecules in their near-native states.

## cryoSPARC

Structura Bio's state-of-the-art cryoSPARC™ platform is used globally for cryo-EM data analysis and 3D reconstruction. CryoSPARC offers specially designed, proprietary algorithms for membrane proteins, ion channels, GPCRs and drug targets with ligands bound.



Picked up by 8 news outlets  
Blogged by 2  
Tweeted by 102  
Highlighted by 1 platforms  
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ing situation.  
from CDC: <https://www.coronavirus.gov>.  
://www.nih.gov/coronavirus.  
ence, and clinical content: <https://www.ncbi.nlm.nih.gov/sars-cov-2/>.

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> Nat Methods. 2017 Mar;14(3):290-296. doi: 10.1038/nmeth.4169. Epub 2017 Feb 6.

## cryoSPARC: algorithms for rapid unsupervised cryo-EM structure determination

Ali Punjani<sup>1</sup>, John L. Rubinstein<sup>2 3 4</sup>, David J. Fleet<sup>1</sup>, Marcus A. Brubaker<sup>5</sup>

Affiliations — collapse

### Affiliations

- Department of Computer Science, The University of Toronto, Toronto, Ontario, Canada.
- Molecular Structure and Function Program, The Hospital for Sick Children Research Institute, Toronto, Ontario, Canada.
- Department of Biochemistry, The University of Toronto, Toronto, Ontario, Canada.
- Department of Medical Biophysics, The University of Toronto, Toronto, Ontario, Canada.
- Department of Electrical Engineering and Computer Science, York University, Toronto, Ontario, Canada.

### FULL TEXT LINKS



### ACTIONS

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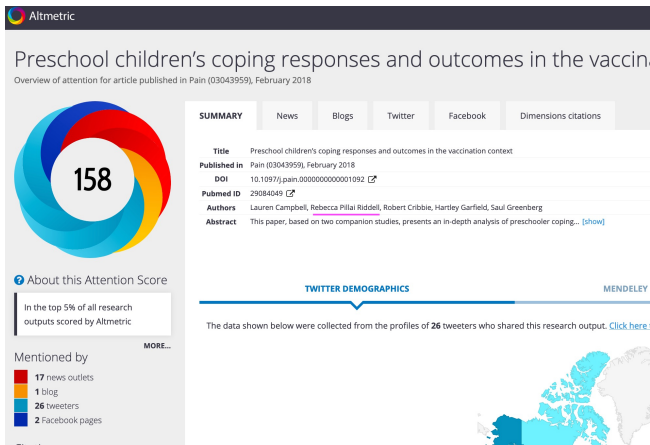
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### PAGE NAVIGATION

< Title & authors

# Children & Pain Management, Autism..



YORK U

## Chair in Autism Spectrum Disorders Treatment and Care Research

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### ABOUT THE CHAIR

We aim to identify risk factors related to mental health problems in people with Autism Spectrum Disorder, address these factors and associated mental health problems using novel treatments, and study how people with autism and their family caregivers access mental health care across the country.



### AUTISM SPECTRUM DISORDERS

People with ASD have a common set of social, communication, and behavioural difficulties. Many people with ASD struggle with mental health problems.

**Altmetric**

## Predictors of emergency service use in adolescents and adults with autism

Overview of attention for article published in Emergency Medicine Journal, November 2014

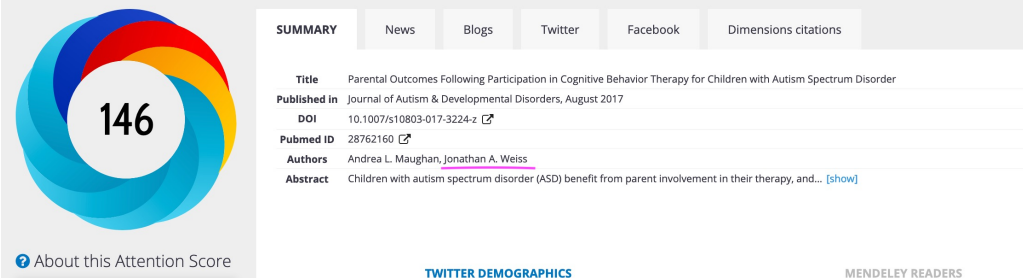


research we conduct

**Altmetric**

## Parental Outcomes Following Participation in Cognitive Behavior Therapy for Children with Autism Spectrum Disorder

Overview of attention for article published in Journal of Autism & Developmental Disorders, August 2017



## Opportunities to Understand Childhood Hurt Laboratory



Welcome to the Opportunities to Understand Childhood Hurt (OUCHU) Laboratory website. The Lab is run by Dr. Rebecca Pillai Riddell, a Full Professor at York University (Department of Psychology), a Scientific Staff member at Sick Kids (Department of Psychiatry Research), and an Adjunct Associate Professor at the University of Toronto (Department of Psychiatry). Our



**NDRIO**  
New Digital Research Infrastructure Organization

**NOIRN**  
Nouvelle organisation d'infrastructure de recherche numérique

Français

Search

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## Canada's New Digital Research Infrastructure Organization Names Inaugural Researcher Council

Rob Rankin | September 24, 2020

NOTE: An [NDRIO Researcher Council Fact Sheet](#) is available to accompany this release.

Ottawa, ON (September 24, 2020) – The New Digital Research Infrastructure Organization (NDRIO) is pleased to announce the selection of 22 multi-disciplinary researchers to its first Researcher Council. The NDRIO Researcher Council is a critical component of NDRIO's commitment to involve the research community as it designs and delivers a new service delivery model to support Canada's national Digital Research Infrastructure (DRI) Strategy.



## Vision: Science to Applications

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# More to vision than meets the eye

## ADVANCING VISION RESEARCH

VISTA is advancing interdisciplinary vision research at York University across the following Faculties:



### Faculty of Health

Neuroscience,  
Kinesiology &  
Psychology.



### Lassonde School of Engineering

Computer Science,  
Electrical  
Engineering, AI and  
Machine Learning.



### Faculty of Science

Biology, Physics,  
Mathematics and  
Chemistry.



### Liberal Arts & Professional Studies

Philosophy, IT &  
Computational  
Linguistics.



### Arts, Media, Performance & Design

Disability Studies,  
Computational Arts,  
Visual Arts and  
Film.

## When gravity is not where it should be: How perceived orientation

Overview of attention for article published in *PLoS ONE*, January 2021



### About this Attention Score

In the top 5% of all research outputs scored by Altmetric

### Mentioned by

11 news outlets  
2 blogs  
25 tweeters  
1 reddit

### Readers on

13 Mendeley

[SUMMARY](#) [News](#) [Blogs](#) [Twitter](#) [Reddit](#)

**Title** When gravity is not where it should be: How perceived orientation affects visual self-motion processing  
**Published in** *PLoS ONE*, January 2021  
**DOI** 10.1371/journal.pone.0243381 [C](#)  
**Pubmed ID** 33880125 [C](#)  
**Authors** Meghan McManus, Laurence R. Harris

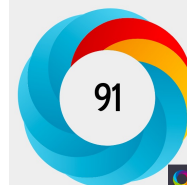
### TWITTER DEMOGRAPHICS

The data shown below were collected from the profiles of 25 tweeters who shared this research output. [Click here](#)



## Ignoring correlated activity causes a failure of retinal

Overview of attention for article published in *Nature Communications*, September 2020



### About this Attention Score

In the top 5% of all research outputs scored by Altmetric

### Mentioned by

6 news outlets

[SUMMARY](#) [News](#) [Blogs](#) [Twitter](#)

**Title** Ignoring correlated activity causes a failure of retinal population codes  
**Published in** *Nature Communications*, September 2020  
**DOI** 10.1038/s41467-020-18436-2 [C](#)  
**Pubmed ID** 32929073 [C](#)  
**Authors** Kiersten Ruda, Joel Zyberberg, Greg D. Field

## Neural Correlates of the Conscious Perception of Visual Location

Overview of attention for article published in *Current Biology*, December 2019



### About this Attention Score

In the top 5% of all research outputs scored by Altmetric

### Mentioned by

14 news outlets

[SUMMARY](#) [News](#) [Blogs](#) [Twitter](#) [Facebook](#) [Dimensions citations](#)

**Title** Neural Correlates of the Conscious Perception of Visual Location Lie Outside Visual Cortex  
**Published in** *Current Biology*, December 2019  
**DOI** 10.1016/j.cub.2019.10.033 [C](#)  
**Pubmed ID** 31761706 [C](#)  
**Authors** Simul Liu, Qing Yu, Peter U. Tse, Patrick Cavanagh

### TWITTER DEMOGRAPHICS

### MENDELEY READERS

The data shown below were collected from the profiles of 114 tweeters who shared this research output. [Click](#)



What does all this mean for the Academic Librarians?

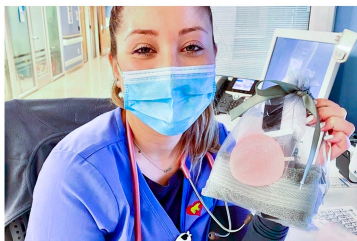
2021 (31-32 OA)	2020 (44-49)	2019 (48-52)	2018
PloS (3), Lancet, Nature, Scientific Reports, Nature Commun.	Nature, Scientific Data <i>both</i> Scientific Reports (Nature OA) Lancet (3), PNAS (6), PLoS (4)	<i>JAMA (2) JAMA Pediatrics, PNAS, Nature (6), Science (4), PLoS (4)</i>	Nature (4), Lancet (2) Science, Frontiers in Genetics (NPG), EMBO Rep. Front. in Physiol. CMAJ, PLoS (2)
Social Sci. Rsch, Social Sci Med (2), JMIR	Science (3), Science Advances – OA	Developmental Science, Archives of Sexual Behavior, Social Psychol., Soc. Psych Epidemiol.	Journal of Geophysical Research (3) ...Mars
Journal of the American Society for Mass Spectrometry (2)	Autism Research, Frontiers in Neurology (NPG/OA)	BMC (2), Journal of Insect Science	<i>J. Pediatrics, Pain (2), Diabetologia, Body Image, BMC Obesity, Clinical Obesity</i>
<i>Global Public Health, Dermatologic Therapy, J. Clinical Sleep Med.</i>	Astrophysical Journal, J. Math Industry, J Law, Med & Ethics, Ethnic & Racial Studies	<i>Cognition, Cerebral Cortex, Neuron, J. Neurosci., J. Vision, Neuroimage, J Alzhm Dis.</i>	Dementia and Geriatric Cognitive Disorders, J Am Geriatr Soc., Memory
NEJM. Vision Research, BMJ Open	British Medical Journal, CMAJ (4), European Journal of Pain	<i>Appetite, Obesity, Body Image (2), Frontiers in Nutrition, Journal of Personality &amp; Social Psychology</i>	<i>Expert Rev Vaccines, Annals of Internal Medicine, Annals of NYAS, JIMR, Infectious Disease Modelling</i>

Top journals / High AAS: 2021 – 2018

## Altmetrics in the Canadian context.....Yfile

- Gives an idea of the emerging research areas within our university
- Partnership/bringing together of researchers from different disciplines – can libraries/librarians play a role in these Centres of Excellence?
- Some topics and journals are discussed more in news - level the playing field?? - how does this university use this information for attracting new talent – showcasing strength?
- VPRI & faculty members - their views on these metrics: metrics are skewed and favour only sciences
- Should there be a Canadian hub to highlight discussed / research in news from all Canadian Universities?





## Skin-care product based on U of T research donated to health-care workers battling COVID-19

A company spun off from the University of Toronto's Faculty of Applied Science & Engineering has donated its entire stock of skin-care product to health-care workers fighting the global pandemic.



## Armed with 3D scanners, U of T anthropologists ready hundreds of fossils for virtual labs

In a small room at the Terrence Donnelly Health Science Complex at the University of Toronto Mississauga, a cast of a hominid skull is carefully be



## U of T ranks first in Canada, third globally in research-focused National Taiwan University Ranking

The University of Toronto ranks first in Canada and third globally in the latest National Taiwan University Ranking, which measures universities' r

## FEATURED STORIES



COLLABORATING AT THE CROSSROADS > INDIGENOUS LANGUAGES >

*explore*  
HELPING SENIORS IN LONG-TERM CARE COMBAT SOCIAL ISOLATION DURING COVID-19



BUILDING A GREEN ECONOMY >



LEAD IN PARISIAN HONEY >



ORIGINS OF OUR UNIVERSE >

# Role for Altmetrics?

## U of G research helping to ensure frothy lattes



Remember the saying "Don't bruise the wine" by pouring it improperly? Some experts question the walls advice, but it turns out that milk too gains certain unfavourable traits if it's channelled too turbulently or bulk tank — among them, it doesn't froth very well when it's used in a cafe latte. SPARK writer Mya Kidd the situation when she was coordinating a special dairy research communications project with the Ont College, and...

[Read more: U of G research helping to ensure frothy lattes](#)

## Preventing problems caused by low blood calcium in dairy cows



## Proactive approach improves herd health, say researcher

By Karl Longthorne

Low blood calcium levels after calving are an issue in dairy herds, especially in older cows, from Some producers take a reactive approach by giving cows calcium supplements after calving. Bu of Guelph researchers points to the benefits of a more proactive, preventative approach. University of Guelph Prof. Stephen LeBlanc and DVMSc student Rita Couto Serrenho, Departme Medicine, are the first to...

[Read more: Preventing problems caused by low blood calcium in dairy cows](#)

## Feeding your pet a safe and nutritious alternative diet



[Read more: Feeding your pet a safe and nutritious alternative diet](#)



## McGill brain-scanning spinoff acquired by French firm

13 Oct 2020

Earlier today, QYNAPSE Inc. of Paris, France, announced it had completed the acquisition of Canada's True Positive Medical Devices Inc. (TPMD), a spin-off company from McGill University

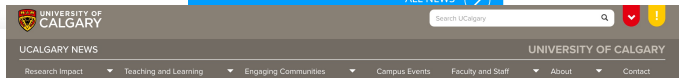


## Studying maggots and mice results in major grants for two professors

30 Sep 2020

As humans, we may fall into the assumption that we have nothing to learn from the so-called, lower animals in the vast tree of life. And what a mistake that would be, according to Professor

[Read more: Studying maggots and mice results in major grants for two professors](#)



## Research Impact



## Expansion of critical veterinary diagnostics at UCalgary puts more animal diseases under the microscope

Provincie announces two grants to increase services and improve livestock care in Alberta

[Read more >](#)



UCalgary researchers receive support for COVID-19 mental health projects

[Read more >](#)



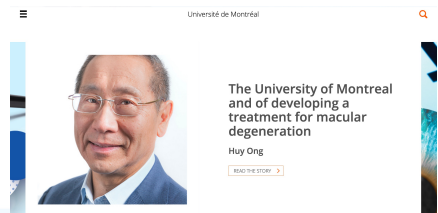
Kinesiology researchers creates smart way to assess and track neurological function

[Read more >](#)



Trio of vet med researchers secures \$2.6 million in national funding competition

[Read more >](#)

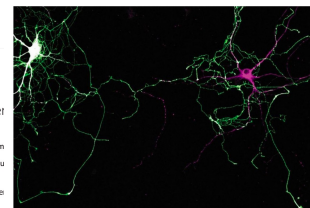


## The University of Montreal and of developing a treatment for macular degeneration

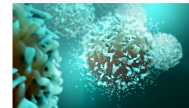
Huy Ong

[READ THE STORY >](#)

## udemnouvelles



## \$12.5 million awarded to Montreal team to study Parkinson's Disease



Improving the efficacy of cellular therapies



Astronomy: unraveling a spiral stream of dusty embers

# Altmetrics Portal for Canadian Universities?



SCIENCE

HEALTH

FUTURITY

CULTURE

ENVIRONMENT



ANTIOXIDANTS PENN STATE

## TO LOWER CANCER RISK, EAT MORE MUSHROOMS?

### MCGILL UNIVERSITY

COMMUNICATION  
MCGILL UNIVERSITY



ALGORITHM CAN TELL IF ZEBRA FINCH TUNES ARE LOVE SONGS

COVID-19  
MCGILL UNIVERSITY



GUM DISEASE MAY UP CHANCE OF DEATH BY COVID-19

BIOKIMICRY  
MCGILL UNIVERSITY



HUMAN TENDONS INSPIRE SUTURES THAT DELIVER DRUGS

COMMUNICATION  
MCGILL UNIVERSITY

## ALGORITHM CAN TELL IF ZEBRA FINCH TUNES ARE LOVE SONGS

BIRTHS  
UNIVERSITY OF TEXAS AT AUSTIN

## ENGINEERS INVESTIGATE: WHY ISN'T CHILDBIRTH EASIER?

CIGARETTES  
PENN STATE

## THE RIGHT AMOUNT OF E-CIGARETTE NICOTINE MAY CUT SMOKING

BREAST CANCER  
WASHINGTON UNIVERSITY IN ST. LOUIS

## DNA-BASED CANCER VACCINE TRIGGERS IMMUNE ATTACK ON TUMORS

:

SCIENCE

HEALTH

FUTURITY

CULTURE

ENVIRONMENT

## Universities

Boston University  
Brandeis University  
Brown University  
California Institute of Technology  
Cardiff University  
Carnegie Mellon University  
Case Western Reserve University  
Columbia University  
Cornell University  
Duke University  
Emory University  
ETH Zurich  
Georgia Institute of Technology  
Georgia State University  
Indiana University  
Iowa State University  
Johns Hopkins University  
McGill University  
Michigan State University  
Michigan Technological University

Monash University  
National University of Singapore  
New York University  
North Carolina State University  
Northwestern University  
Penn State  
Princeton University  
Purdue University  
Rice University  
Rockefeller University  
Rutgers University  
Stanford University  
Stony Brook University  
Syracuse University  
Texas A&M University  
Tulane University  
University at Buffalo  
University of Nebraska-Lincoln  
University of Arizona  
University of California, Berkeley

University of California, Davis  
University of California, Irvine  
University of California, Santa Barbara  
University of Chicago  
University of Colorado at Boulder  
University of Copenhagen  
University of Florida  
University of Illinois  
University of Iowa  
University of Kansas  
University of Leeds  
University of Maryland  
University of Melbourne  
University of Michigan  
University of Minnesota  
University of Missouri  
University of Nebraska-Lincoln  
University of North Carolina at Chapel Hill

University of Nottingham  
University of Oregon  
University of Pennsylvania  
University of Pittsburgh  
University of Queensland  
University of Rochester  
University of Sheffield  
University of Southampton  
University of Southern California  
University of Texas at Austin  
University of Toronto  
University of Virginia  
University of Warwick  
University of Washington  
University of York  
University of Zurich  
Vanderbilt University  
Washington University in St. Louis  
Yale University

MONEY

UNIVERSITY OF TORONTO



PAY WITH CASH AND STUFF MAY MEAN MORE TO YOU

NARCISSISM

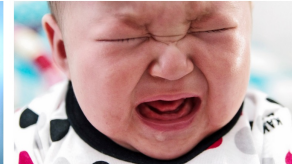
UNIVERSITY OF TORONTO



YOU MAY BE YOUR SELFIE'S BIGGEST FAN

ATTENTION

UNIVERSITY OF TORONTO



YOUR BABY'S CRY CAN RATTLE YOUR BRAIN

FORESTS

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ACETAMINOPHEN

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