

yFile: YU's Research highlights

#### Lassonde researcher is improving the precision of GPS data

March 14, 2017

Using software developed at Lassonde, York PhD student John Aggrey achieved a 22 per cent improvement in the positional accuracy of Global Navigation Satellite System (GNSS) receivers, a network that includes the GPS (United States).

READ MORE

#### Research led by York improves access to mental health care for immigrants

March 12, 2017

A team led by York University researcher Professor Farah Ahmad has developed a new interactive eHealth tool to facilitate the pre-consult assessment of mental health disorders for immigrants and refugees.

READ MORE

Collaborative research adds to greater understanding of amnesia

# yFile: Why only here....





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# Safe exercise guidelines for Type 1 Diabetes developed by international team led by York U researcher

January 24, 2017 □ SHARE ■ ☑ SHARE

An international team of researchers and clinicians led by York University Professor Michael Riddell has published a set of guidelines to help people with type 1 diabetes exercise safely to avoid fluctuations in blood sugar.

"Regular exercise can help individuals with diabetes to achieve their blood lipid, body composition, fitness and blood sugar goals, but for people living with type 1 diabetes, the fear of hypoglycemia, loss of glycemic control and inadequate knowledge around exercise management are major barriers," said Riddell, in the Faculty of Health. "This is a big struggle for both type 1 diabetes patients and their healthcare providers. This first ever set of consensus guidelines from leading experts will help them."

Patients with type 1 diabetes have to monitor their blood glucose levels before, during and after exercise, said Riddell, who led the team of 21 international experts. For two years, they reviewed observational studies and clinical trials on exercise management for people with type 1 diabetes who exercise regularly, to reach a consensus.

The guidelines on glucose targets for safe and effective exercising as well as nutritional and insulin dose adjustments to prevent exercise-related fluctuations in blood sugar, appear in the report, "Exercise management in type 1 diabetes: a consensus statement," published in *The Lancet Diabetes & Endocrinology*. This work was funded by the JDRF, a leading global organization funding type 1 diabetes research.



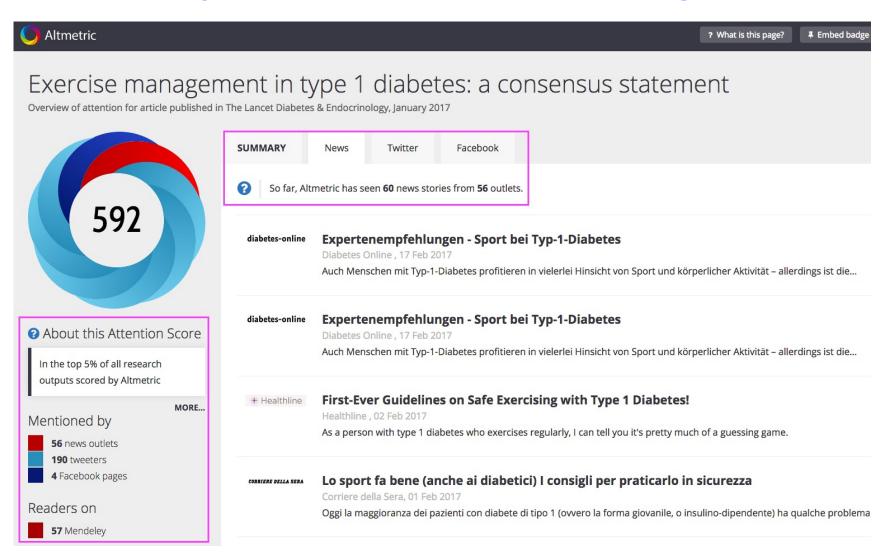
Michael Riddell

The authors note that a majority of people with type 1 diabetes are now overweight or obese and tend to be at least as inactive as the rest of the population. A large percentage of patients do not maintain a healthy body weight nor do they achieve the minimum required moderate-to-vigorous aerobic activity (150 minutes per week). This is in contrast to a few decades ago when most patients with the disease were relatively slim and active.

"Regular exercise helps patients achieve a number of goals. In pediatric patients, in particular, it reduces the cardiovascular



# When you can be all over the globe!!

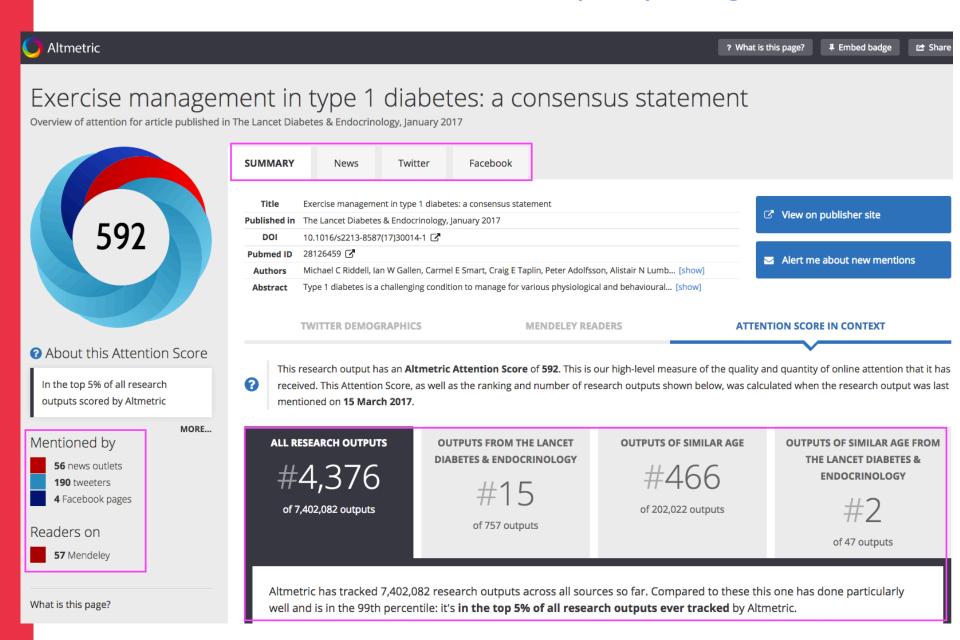


**Altmetric Attention Score (AAS): 592** 

Google Scholar Citations (it will increase!): 3



#### YU article Altmetric Attention Score (AAS): Weighted Score

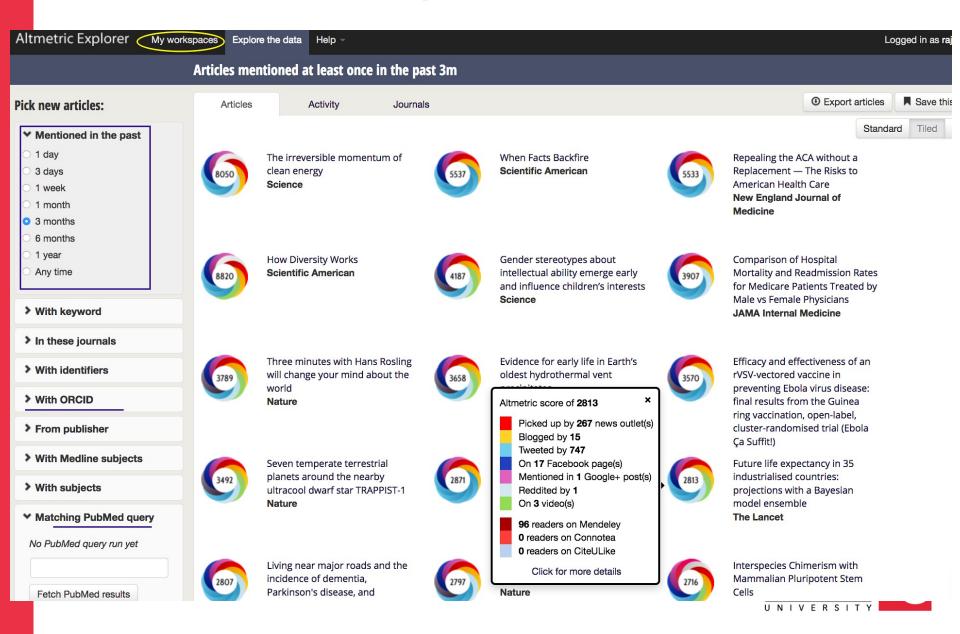


#### Compliments and questions.....

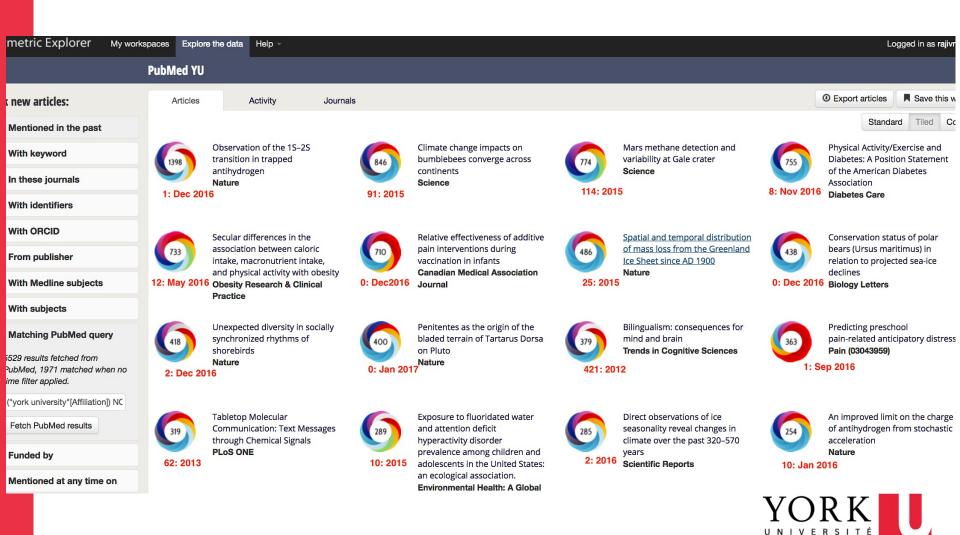
Thank you both! Without such great work to promote, we couldn't have garnered great results:) Have the good work coming! Regards Sent from my iPhone. iApologize for any TiPOS On Jan 25, 2017, at 2:15 PM, wrote: Awesome news!!! Great work, team! From: Sent: Wednesday, January 25, 2017 1:31 PM Subject: lots of hits According to our amazing science librarian Rajiv, we are among the top 5% of all research outputs scored by Altemeric (43 news outlets, 94 tweeters) This score is already similar to the ADA diabetes exercise guidelines published last year. Great work Professor and Graduate Program Director School of Kinesiology and Health Science Muscle Health Research Centre York University Toronto, On Canada M3J 1P3 Senior Scientist LMC Diabetes & Manna Research Getting Pumped- An Insulin Pump Guide for Active Individuals with Type 1 Diabetes available at: www.medtronicdiabetes.ca/gettingpumped



#### **Altmetric Explorer: Basic Version**



# High AAS from YU: Score in Colourful Doughnut (Google Scholar Citations in Red)



## Data needs to be seen in a different way...

	A B	C	D	E F	
	Publication Year Title	Journal	Altmetric Score	Google Scholar C OA/Subscript	News outlets
	Dec-16 Conservation status of polar bears (Ursus maritimus) in relation to projected sea-ice declines	Biology Letters	<u>438</u>	<u>0</u> no	4
	Dec-16 Scaffold Free Bio-orthogonal Assembly of 3-Dimensional Cardiac Tissue via Cell Surface Engineering	Scientific Reports4	<u>116</u>	0 open(pmc)	1:
	Dec-16 Unexpected diversity in socially synchronized rhythms of shorebirds	Nature3	418	2 open(biorxiv)	1
	Nov-16 Physical Activity/Exercise and Diabetes: A Position Statement of the American Diabetes Association	Diabetes Care	<u>755</u>	8 open	6
	Nov-16 Observation of the transition in trapped antihydrogen	Nature2	1397	1 no	11!
	Oct-16 Implication of vaccination against dengue for Zika outbreak	Scientific Reports3	143	0 open(pmc)	1
	Physical activity mediates the relationship between fruit and vegetable consumption and cognitive fur	nctioning: a			
3	Oct-16 cross-sectional analysis	Journal of Public Health	196	0 no	20
	Predicting preschool pain-related anticipatory distress: the relative contribution of longitudinal and co	oncurrent			
	Sep-16 factors.	Pain	363	0 no	4:
)	Aug-16 Increasing neonicotinoid use and the declining butterfly fauna of lowland California	Biology Letters1	120	2 open	
L	Aug-16 The abandoned ice sheet base at Camp Century, Greenland, in a warming climate	Geophysical Research Letters	1591		17
	Aug-16 Women's Health Behaviours and Psychosocial Well-Being by Cardiac Rehabilitation Program Model: A		125		1
	Jul-16 Aspartame intake is associated with greater glucose intolerance in individuals with obesity	Applied Physiology, Nutrition, and Metabolis			2
	Apr-16 Direct observations of ice seasonality reveal changes in climate over the past 320–570 years	Scientific Reports1	285		1
	Feb-16 Media coverage and hospital notifications: Correlation analysis and optimal media impact duration to		73		
	Feb-16 Cardiac Rehabilitation Program Adherence and Functional Capacity Among Women: A Randomized Co		51		
,	Feb-16 Procedures for the reconstruction, primary culture and experimental use of rainbow trout gill epitheli		40		
3			29		
	Feb-16 Calorie Estimation in Adults Differing in Body Weight Class and Weight Loss Status.	Medicine & Science in Sports & Exercise			
)	Jan-16 An improved limit on the charge of antihydrogen from stochastic acceleration	Nature	<u>254</u>		2
)	Jan-16 Tracking Plasticity: Effects of Long-Term Rehearsal in Expert Dancers Encoding Music to Movement	PLoS ONE	<u>120</u>		1
L	Jan-16 Dangerous student car drop-off behaviours and child pedestrian-motor vehicle collisions: an observat		26		
	Jan-16 Plugged in: Electronics use in youth and young adults with autism spectrum disorder	Autism: The International Journal of Research			
	Dec-15 Spatial and temporal distribution of mass loss from the Greenland Ice Sheet since AD 1900	Nature1	<u>486</u>		3
	Dec-15 Objectively-measured sedentary time and its association with markers of cardiometabolic health and	fitness among European Journal of Preventive Cardiology	<u>85</u>		
	Dec-15 Do Elite Athletes Live Longer? A Systematic Review of Mortality and Longevity in Elite Athletes.	Sports Medicine-Open	<u>81</u>	3 open	
	Dec-15 Strategies for Early Vaccination During Novel Influenza Outbreaks	Scientific Reports	<u>63</u>	0 open	
	Nov-15 Prenatal exposure to common environmental factors affects brain lipids and increases risk of develop	ing autism spe European Journal of Neuroscience	<u>157</u>	9 open	1
3	Nov-15 Differential attentional responding in caesarean versus vaginally delivered infants	Attention, Perception & Psychophysics	67	3 open	
)	Nov-15 A SNP test to identify Africanized honey bees via proportion of 'African' ancestry.	Molecular Ecology Resources	45	12 open(rg)	
	Nov-15 Ambient Ionization Mass Spectrometry for Cancer Diagnosis and Surgical Margin Evaluation	Clinical Chemistry	40	25 no	
	Nov-15 Delays in Referral and Enrolment Are Associated With Mitigated Benefits of Cardiac Rehabilitation Aft	er Coronary A Circulation: Cardiovascular Quality & Outcor			
	Nov-15 Policy change eliminating body checking in non-elite ice hockey leads to a threefold reduction in injury		37		
	Oct-15 Neural activity patterns evoked by a spouse incongruent emotional reactions when recalling marriage		88		
	Oct-15 Predictors of emergency service use in adolescents and adults with autism spectrum disorder living w		63		
;	Oct-15 Sibling dynamics and sport expertise.	Scandinavian Journal of Medicine & Science			
;	Oct-15 The association between traumatic brain injury and ADHD in a Canadian adult sample	Journal of Psychiatric Research	28		
,					
	Sep-15 Secular differences in the association between caloric intake, macronutrient intake, and physical activ		733		7.
	Sep-15 The FDA's new clothes	British Medical Journal	170	5 <u>open</u>	
)			400	20	
	Sep-15 Reducing pain during vaccine injections: clinical practice guideline.	CMAJ1	<u>186</u>		1
	Sep-15 On the Meanings of Self-Regulation Digital Humanities in Service of Conceptual Clarity	Child Development	31		
	Aug-15 Can reporting of adverse drug reactions create safer systems while improving health data?	CMAJ	32		
	Aug-15 Thriving in Youth with Autism Spectrum Disorder and Intellectual Disability	Journal of Autism & Developmental Disorder			
	Jul-15 Climate change impacts on bumblebees converge across continents	Science	846	91 open	5
	Jun-15 Lifestyle and weight predictors of a healthy overweight profile over a 20-year follow-up	Obesity	<u>30</u>	<u>10</u> no	
	May-15 Genomic signatures of evolutionary transitions from solitary to group living.	Science1	<u>171</u>	69 <u>open</u>	
Ī	May-15 Mitochondria, Muscle Health, and Exercise with Advancing Age.	Physiology	25	19 open	
	Apr-15 Why do cancer drugs get such an easy ride?	British Medical Journal (Clinical Research Ed			
	Mar-15 Bee Hotels' as Tools for Native Pollinator Conservation: A Premature Verdict?	PLoS ONE1	111		
	Feb-15 Exposure to fluoridated water and attention deficit hyperactivity disorder prevalence among children		289		1
	Feb-15 Connectivity of Wood Thrush Breeding, Wintering, and Migration Sites Based on Range-Wide Tracking		60		
	Feb-15 Salient features of otoacoustic emissions are common across tetraood groups and suggest shared pro		52		
	reg. 15 Salient features or organizations are common across terraggo groups and suggest shared organization and suggest shared organization across terraggo groups are suggest to the suggest shared organization across terraggo groups are suggest to the suggest shared organization across terraggo groups are suggest to the suggest shared organization across terraggo groups are suggest to the suggest shared organization across terraggest s	uerues ur gen PINAS		TU Open	

## 2016-15: Google Scholar/AAS/News Outlets

#### **BAR COLOURS**

- Red: Subscription journal/Not OA

- Green: Open Access

- Blue: Open PMC

- Light Green: Open (YorkSpace)



#### **Tableau: For Visualizing the results**

Individual articles/Scores (2014-13)

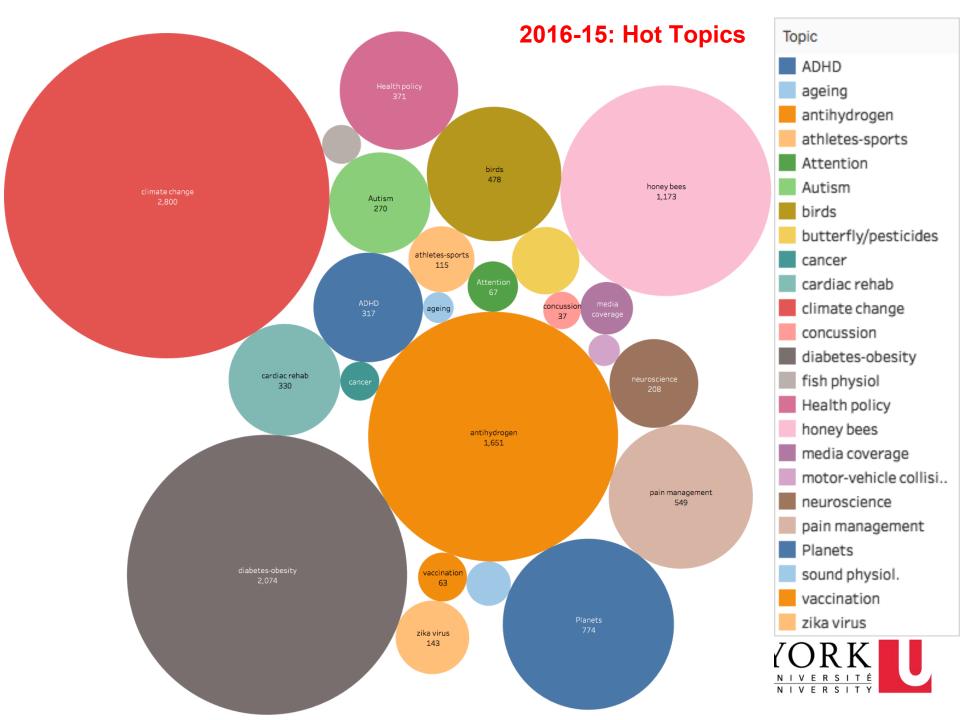
Red: Subscription journal/Not OA; Green: Open Access; Blue: Open PMC

Light Green: Open (YorkSpace); Purple : Open (Research Gate)

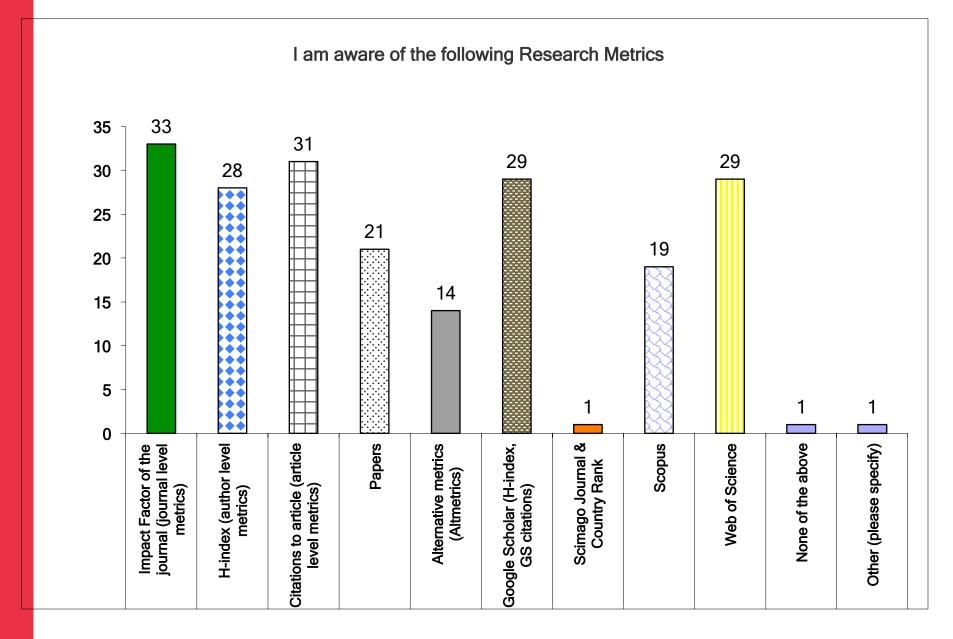


#### **How does it help us?** Collection Development & Top Journals

Year	Select Hot Topics (based on AAS)	Select Top Journals (how many times published in that Journal – in brackets)
2014-2013	Vision Research; Jellification of Lakes; Forest- Fish Growth; Bilingualism; Autism; Honeybees; Concussions, Text Messaging & Vodka; Brain-Personality Behaviour; Cardiac Rehab; Antihydrogen, Exercise-Health	Plos One (7), PNAS, BMJ, Biol Letters, Nature Communications, Cerebral Cortex, Personality & Pschol. Bulletin
2012-2011	Pain management; Boredom Unengaged mind; Charles Darwin; Narcissism-Self Esteem-Facebook; Food Addiction-Obesity; Bilingualism and Brain	Cognitive Science, Appetite, Notes of the Royal Soc., Cyber Psychol. Behaviour & Social Networking



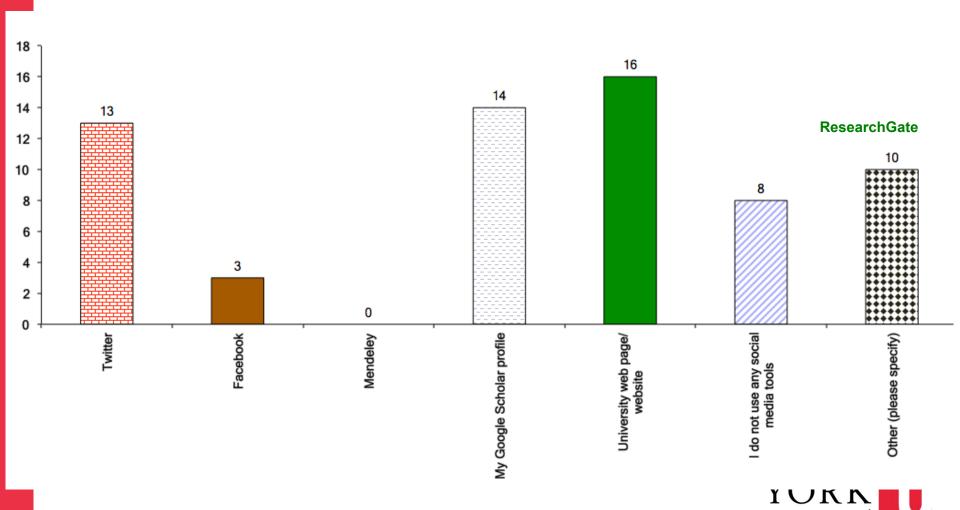
Societal Impact YUResearch							
	8. I would be interested in knowing more about these research impact metrics						
	Journal Impact Factor (citations in a year to documents published in previous 2 years/no. of citatble items in previous 2 years)						
Dear Faculty Members,	Citation Count (# of citations accrued since publication)						
Traditional impact indicators, known as bibliometrics, are commonly based on the number of publications, citation counts and peer reviews of a researcher or journal or institution.	h-Index (# of articles in the collection (h) that have received at least (h) citations over the period)  News media mentions (# of mentions in mass or popular media)						
Altmetrics / alternative metrics is the creation and the study of new metrics based on the social web for analyzing, and informing scholarship. Altmetrics is an new approach to uncovering previously-invisible traces of scholarly impact by observing activity in online tools and systems. It can be regarded as a innovative way to measure engagement with research output. Altmetrics usually describes metrics that are alternative to the established citation counts and usage stats—and/or metrics about research outputs.	Social Activity Online (# of mentions on micro-blogging sites)  Altmetrics & Altmetric Attention Score						
Data that contributes to Altmetric Attention Score (the colourful donut) is tracked by the company Altmetric and includes traditional media (New York Times, The Globe and Mail among others), Science specific (New Scientist, Scientific American and likewise), Mendeley saves, Wikipedia references, F1000, Blog mentions and Twitter links and posts among others. I have included the Altmetric Attention Score (AAS) for your article in the e-mail.	Others (please specify)						
I am exploring the societal impacts of York University's published research. I am particularly interested in the coverage of YU Research in News media, Policy documents, and as Wikipedia references. All these mentions contribute to the <u>Altmetric Attention Score in a</u>	9. How important are th	e following statistics	[for your article(s)]				
weighted manner.		Very Important	Important	Not Important	Not Applicable		
Your article has a very high Altmetric Attention Score, and I thought I'd let you know about the same. I would also like your input about research metrics through this short online survey.	Total Citation count	$\circ$	0	0	$\circ$		
5. I actively promote my research through articles.	Mentions in News Media	0	0	0	0		
	Facebook posts	$\circ$	$\circ$	0	$\circ$		
Facebook	Twitter mentions and posts	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		
Twitter Facebook Mendeley My Google Scholar profile University web page/website	Mendeley readers &						
My Google Scholar profile	downloads						
_	Downloads by readers	O	O	O	0		
I do not use any social media tools  Other (please specify)	Mentions in Policy documents	$\circ$	$\circ$	$\circ$	$\circ$		
Curer (please specify)	Mentions in Wikipedia references	0	0	0	0		
6. Were you aware of the Altmetrics Attention Score for your article(s) (prior to the Librarian's e-mail)	mentions in F1000	0	$\circ$	0	$\circ$		
Yes	Other (please specify)						
○ No							
Comments (please specify)							
	10. How important do you think are Altmetrics/alternative metrics for career advancement						
7 le veur esticle(e) (with high Altmetric Attention Secret(e)) Ones Assessed	Tanana 9 Danielia	Very Important	Important	Not Important	N/A		
7. Is your article(s) [with high Altmetric Attention Score(s)] Open Access?	Tenure & Promotion	0	0	0	0		
Yes No	Grant Applications	$\circ$	$\circ$	$\circ$	$\circ$		
☐ I don't know	Other (please specify)						
Other (please specify)							



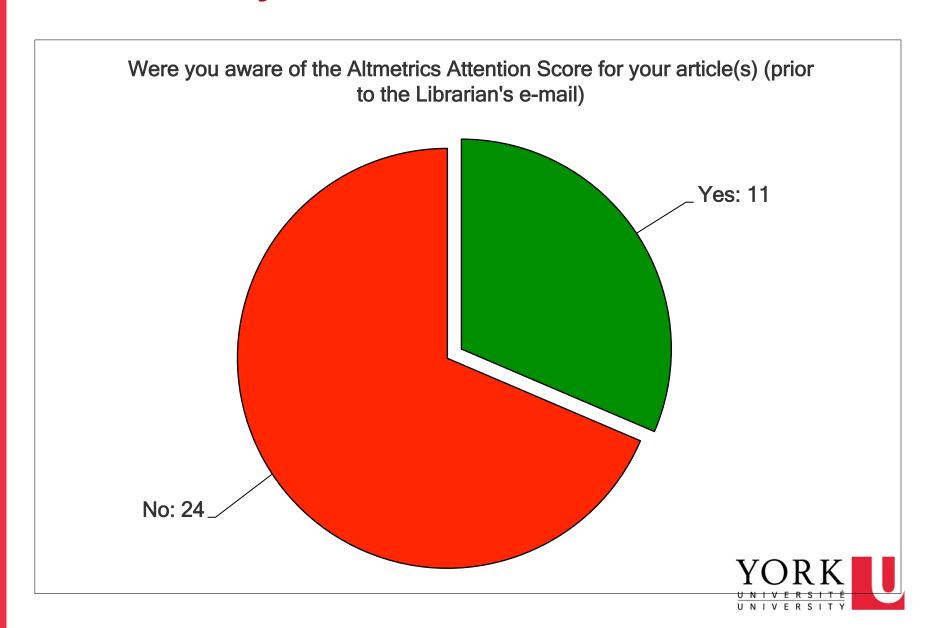




# I promote my research through.....

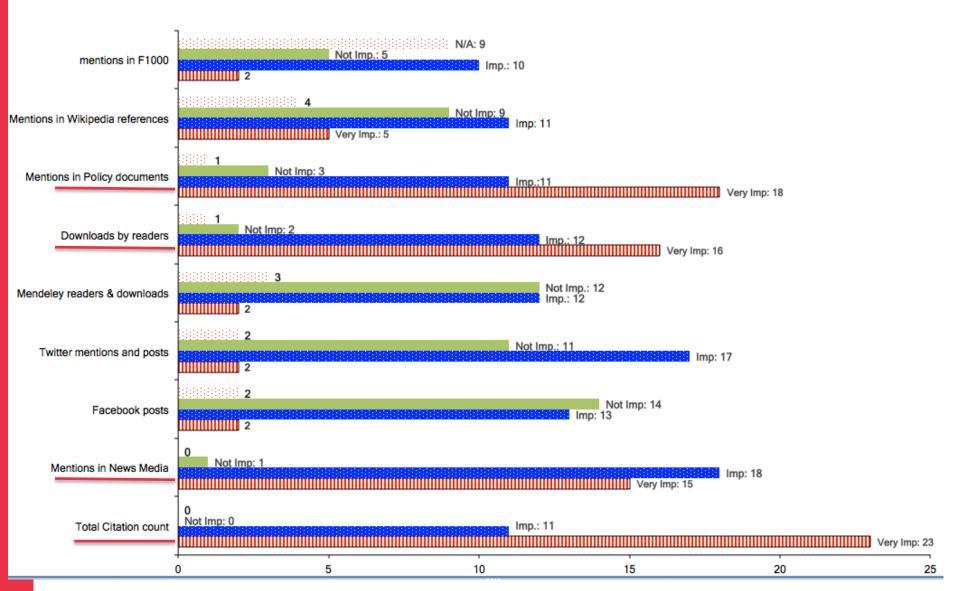


## Were you aware: You are famous!!

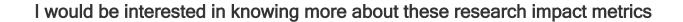


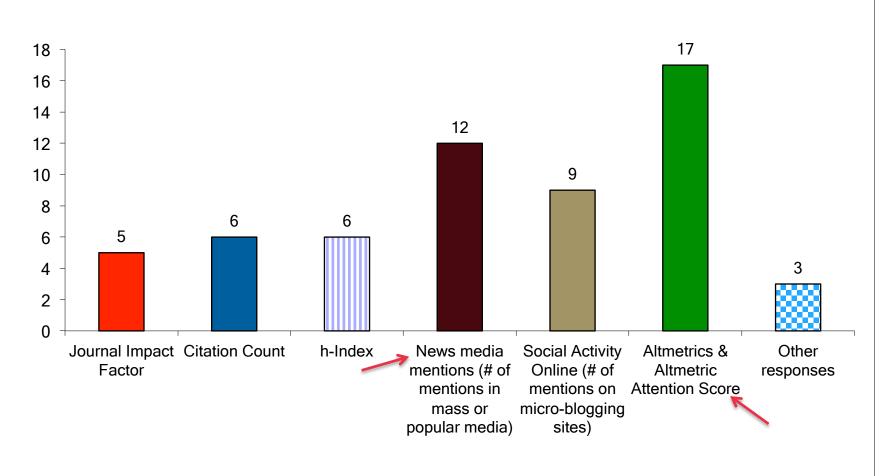
#### After knowing about AAS: Importance of statistics





### Now, what is interesting?

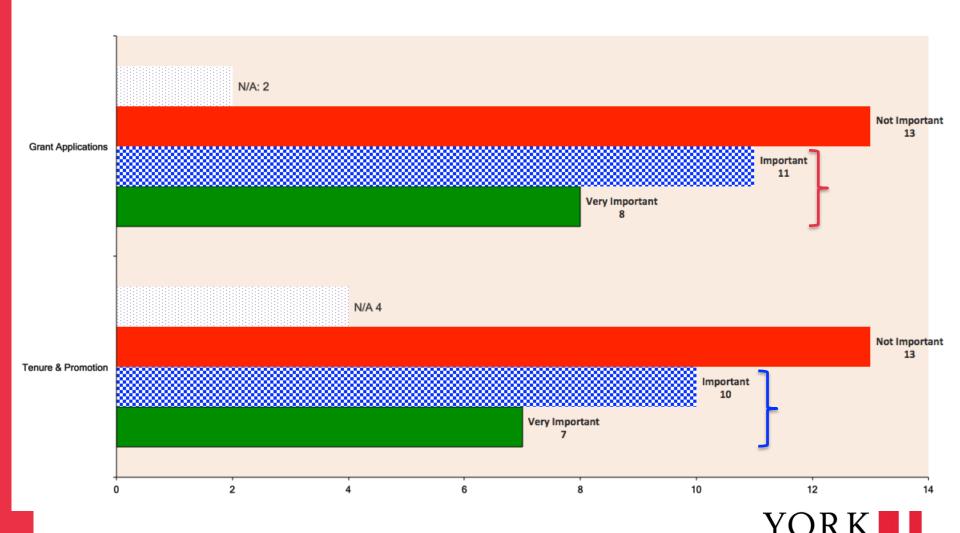






### **Altmetrics and Career Advancement**

How important do you think are Altmetrics/alternative metrics for career advancement (One skipped)



I learned a lot - good luck with this research :)!

3/7/2017 11:50 AM View respondent's answers

Categorize as... ▼

I am gratified that efforts are being made to develop this tool to quantify the impact of research. The h-index can be very misleading.

1/23/2017 6:05 PM

View respondent's answers

Categorize as... ▼

Interesting, important and contentious topic to explore...the landscape is changing quickly too which makes it hard for academics

1/10/2017 4:01 PM

View respondent's answers

Categorize as... ▼

i appreciate that the librarians teach us how us faculty can determine the impact of our work in these traditional and non-traditional ways

I like the idea, but it should be used carefully. Tweets and FB posts can be done by the general public without a scientific background and it can be amplified as a hype ("get viral") without real scientific relevance.

3/7/2017 1:00 PM

View respondent's answers

Categorize as... ▼

I am thinking of writing a book for a popular audience about my research and when approaching agents I have been asked about my social media following - not surprisingly as an academic I do not have a social media following - don't have the time or interest to develop such a following. I understand though why an agent / publisher would ask about such a thing.

I wonder if something like altmetrics could serve as an alternative indicator of the interest and reach of my work to help sell a book proposal? Do you have any ideas about the kind of alternative metrics that could be assembled to help me in this regard. For example can altmetrics generate a score for a researcher not just an individual paper?

As you can see I don't really pay any attention to it. Sorry, I'm probably just too old!

12/27/2016 1:34 PM

View respondent's answers

Categorize as... ▼





- Capturing impact besides citations
- Junior and tenured faculty want to know about AAS and news media mentions
- Use in our teaching and learning



# Thank you to all of You for attending!!

&

Thank you to York University for providing monetary assistance for part of the travel – SSHRC Conference Opportunity Grant

