



# Profile Building and Research Sharing using Social Media Tools for Scientists



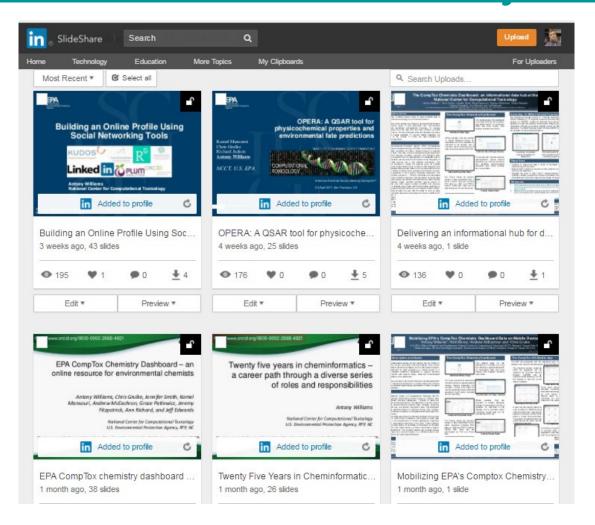
**Antony Williams Center for Computational Toxicology and Exposure** 

Scientific Liaison Coalition
June 2<sup>nd</sup> 2022



# Various Versions of This Talk

### www.slideshare.net/AntonyWilliams





### A related publication...



F1000Research 2017, 6:1315 Last updated: 19 DEC 2018



#### **OPINION ARTICLE**

The new alchemy: Online networking, data sharing and research activity distribution tools for scientists [version 1; referees: 2 approved, 1 approved with reservations]

Antony J. Williams <sup>1</sup>, Lou Peck <sup>2</sup>, Sean Ekins <sup>3</sup>

<sup>&</sup>lt;sup>1</sup>National Center for Computational Toxicology, Environmental Protection Agency, Durham, NC, 27711, USA

<sup>&</sup>lt;sup>2</sup>Lou Peck Consulting, Swansea, SA4 3JQ, UK

<sup>&</sup>lt;sup>3</sup>Collaborations Pharmaceuticals, Inc., Raleigh, NC, 27606, USA



## Some Questions for you...

### Consider...

- How many of you have an ORCID?
- How many of you have LinkedIn?
- How many of you have SlideShare?
- How many of you have published >3 papers?
- How many of you share your work online?

Maybe after this it will change...



# Who markets your work??? If not you, then who?

•"It's not the job of researchers to become experts in public relations — that's why universities have press offices, says Matt Shipman, research communications lead at North Carolina State University in Raleigh. But he recommends scientists toot their own horns as well."

http://www.nature.com/news/kudos-promises-to-help-scientists-promote-their-papers-to-new-audiences-1.20346



# My Hopes for Today

- Encourage you in the "era of participation"
- Provide an overview of some tools available
- Share some stories, statistics and strategies
- Encourage you to "share for the sake of community/science as well as for yourself"

#### OUTCOMES

- You will claim an ORCiD
- You will invest ~2 hours per month on your profile
- You have a bigger "Impact" online....



### **ORCID** – The Scientists SSN



Connecting Research and Researchers

# **Antony Williams**

#### ORCID ID



orcid.org/0000-0002-2668-4821



### What's the value of ORCID?

ORCIDs are now expected for many publications

 Single click through to your ORCID page – how rich is your ORCID biography??? See

https://orcid.org/0000-0002-2668-4821



# Publishers Requiring ORCIDs...

https://orcid.org/content/mandating-orcid-publication-workflows-open-letter

### Requiring ORCID in Publication Workflows: Open Letter

Major publishers have committed to requiring ORCID iDs in the publishing process for their journals and invite other publishers to do the same.

In November, 2015, a group of publishers asked ORCID to help facilitate communications about their plans to require authors to use an ORCID iD, including hosting this open letter explaining their rationale, developing best practices for using iDs in publishing, and maintaining the signatory list. The publishers' goal is to encourage others to join them in supporting the adoption of ORCID. Publishers signing this open letter are committing to requiring ORCID iDs during 2016 following specific implementation standards.



# It's a Scientists SSN – use it in various places



About 704 results (0.27 seconds)

Antony Williams (0000-0002-2668-4821) - ORCID | Connecting ...

https://orcid.org/0000-0002-2668-4821 ▼

Antony (Tony) J. Williams received his BSc in 1985 from the University of Liverpool (UK) and PhD in 1988 from the University of London (UK). His PhD research ...

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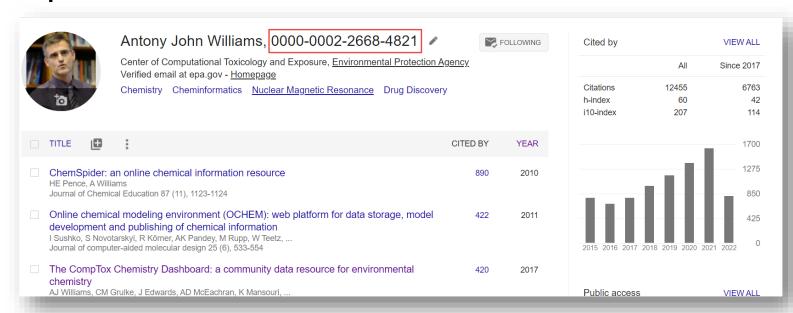
0000-0002-2668-4821. Keywords: nmr. chemistry. chemspider.

computer\_assisted\_structure\_elucidation. cheminformatics. systematic\_naming. open\_data.



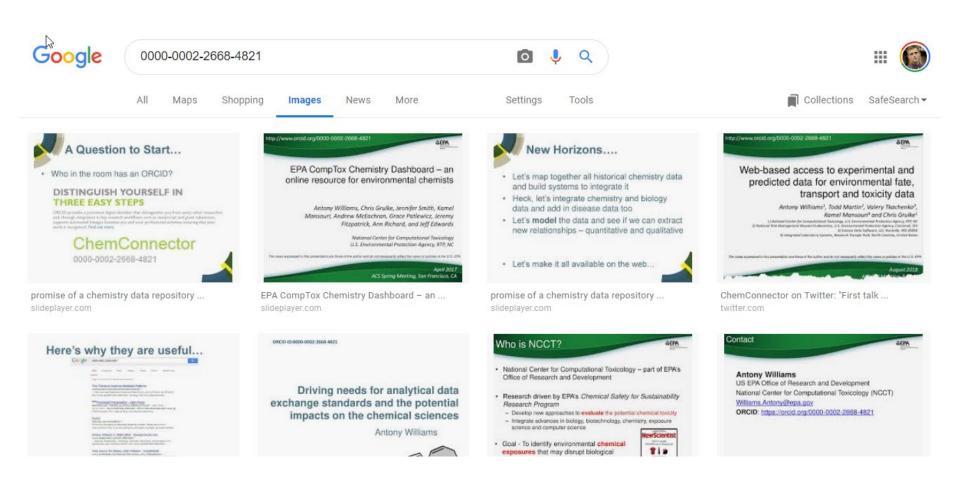
# Use ORCID on all products

- Use your ORCID on everything you produce that will be indexed:
  - –Presentations
  - -Posters
  - –Your profiles





# Google will index all of your works...even if ORCID doesn't



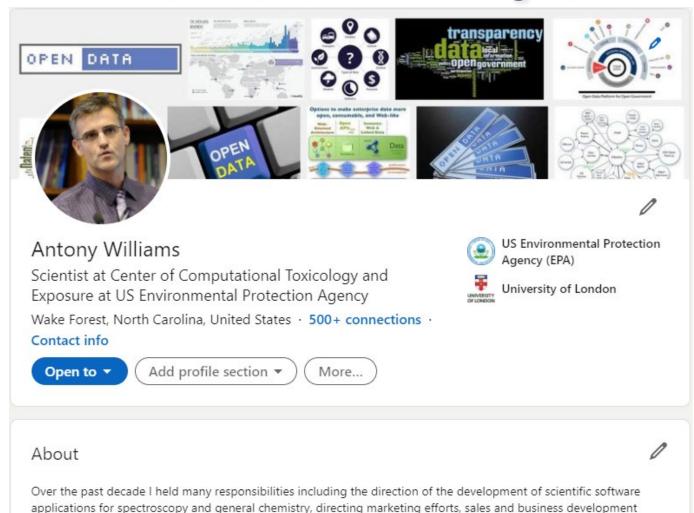


### Scientists are Evaluated: "Statistics"

- Research datasets
- Scientific software
- Publications peer-reviewed and many others
- Posters and presentations at conferences
- Electronic theses and dissertations
- Performances in film and audio
- Other forms of research
- CAVEAT: Make sure you are allowed to share



### **LinkedIn: Career Networking Tool**

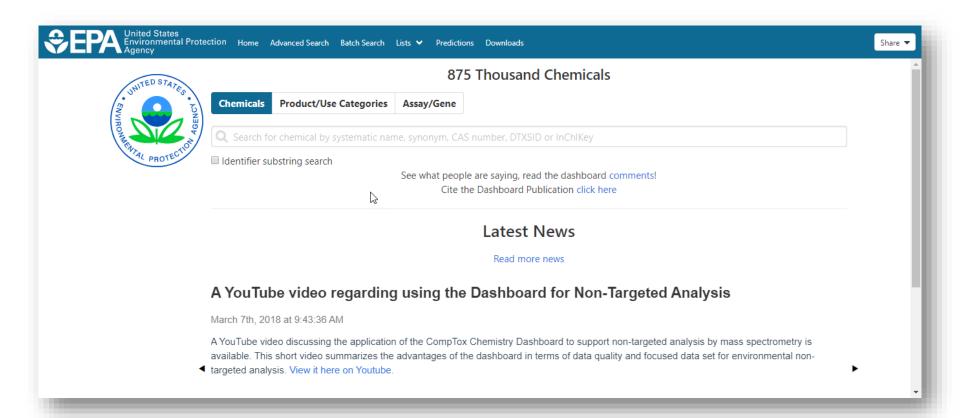


collaborations for the company. Eight years experience of analytical laboratory leadership and managemen ... see more

http://www.linkedin.com/in/AntonyWilliams



## Something I worked on...





## **Ability to Highlight Projects**

#### Projects

#### The CompTox Chemicals Dashboard

Dec 2015 – Present

The CompTox Chemicals Dashboard is an integration hub for chemistry and biology data of interest to environmental scientists and toxicologists. The dashboard was released as a beta on April 1st 2016 and formally as version 1 to the community in August 2016. The dashboard is free to use and presently provides access to data for ~875,000 chemicals.

The definitive article regarding the development of the dashboard is published in the Journal of Cheminformatics as https://jcheminf.biomedcentral.com/articles/10.1186/s13321-017-0247-6.

There are a number of derivative and related articles that have come from the related research and application development. These include:

- 1) OPERA models for predicting physicochemical properties and environmental fate endpoints https://jcheminf.biomedcentral.com/articles/10.1186/s13321-018-0263-1
- 2) An automated curation procedure for addressing chemical errors and inconsistencies in public datasets used in QSAR modelling https://doi.org/10.1080/1062936X.2016.1253611
- 3) Generalized Read-Across (GenRA): A workflow implemented into the EPA CompTox Chemicals Dashboard https://www.altex.org/index.php/altex/article/view/1202
- 4) A Chemical Category-Based Prioritization Approach for Selecting 75 Per-and Polyfluoroalkyl Substances (PFAS) for Tiered Toxicity and Toxicokinetic Testing https://ehp.niehs.nih.gov/doi/10.1289/EHP4555

#### Other creators



















### Manage Articles Here Too...



#### **Publications**







Feb 4, 2019 • ALTEX-Alternatives to animal experimentation

Generalized Read-Across (GenRA) is a data driven approach which makes read-across predictions on the basis of a similarity weighted activity of source analogues (nearest neighbors). GenRA has been described in more detail in the literature (Shah et al., 2016; Helman et al., 2018). Here we present its implementation within the EPA's CompTox Chemicals Dashboard to provide public access to a GenRA module structured as a read-across workflow. GenRA assists researchers in identifying source analogues, evaluating their validity and making predictions of in vivo toxicity effects for a target substance. Predictions are presented as binary outcomes reflecting presence or absence of toxicity together with quantitative measures of uncertainty. The approach allows users to identify analogues in different ways, quickly assess the availability of relevant in vivo data for those analogues and visualize these in a data matrix to evaluate the consistency and concordance of the available experimental data for those analogues before making a GenRA prediction. Predictions can be exported into a tab-separated value (TSV) or Excel file for additional review and analysis (e.g., doses of analogues associated with production of toxic effects). GenRA offers a new capability of making reproducible read-across predictions in an easy-to use-interface.

#### Other authors



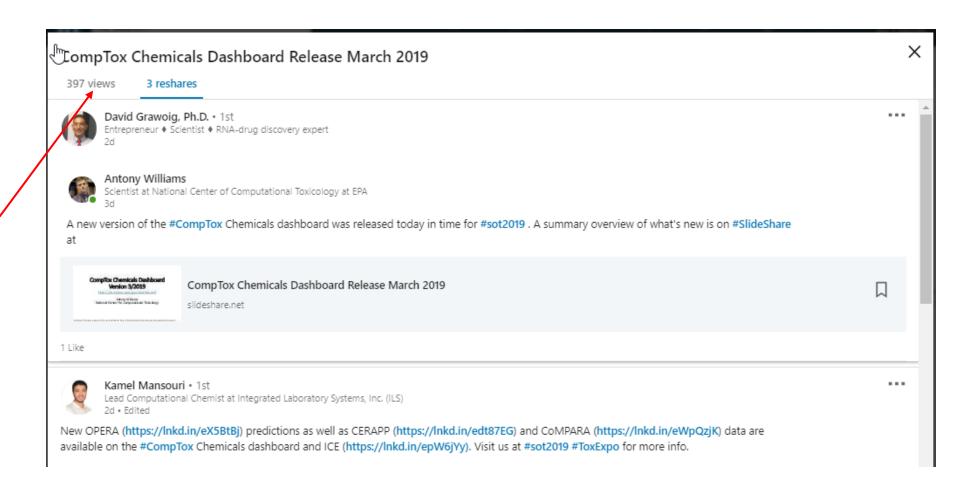






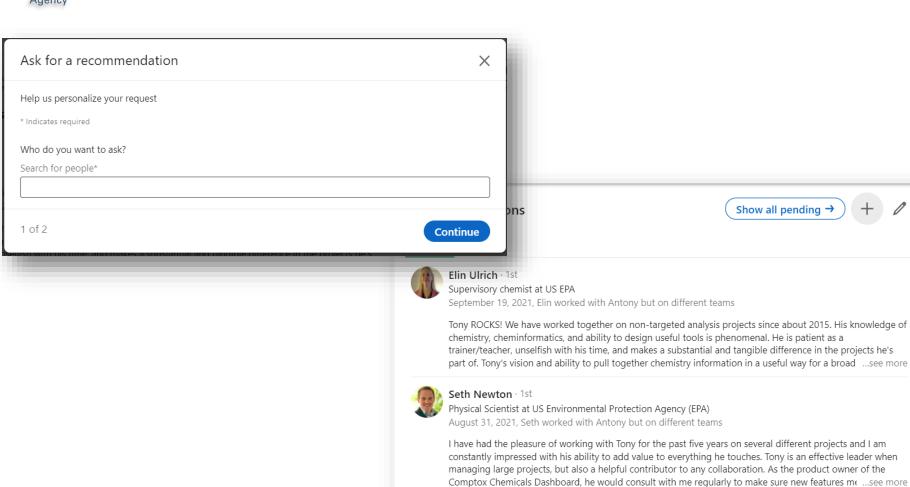


# Your Postings Get Networked





### **Ask for Recommendations**





#### Andrew McEachran · 1st

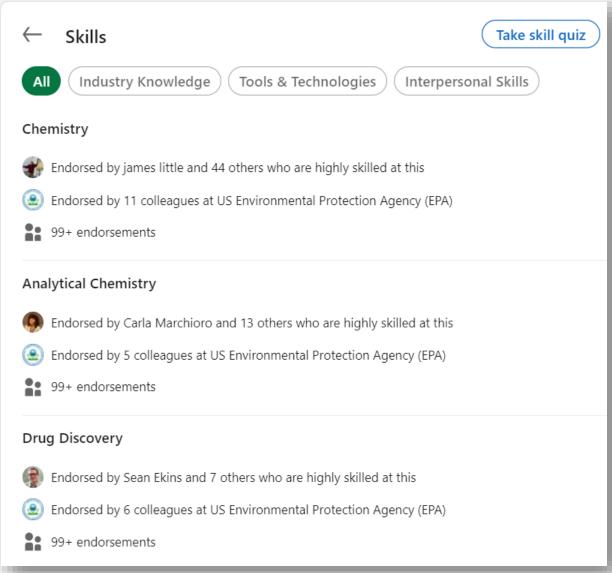
Product Owner at Agilent Technologies

August 26, 2021, Andrew reported directly to Antony

I had the absolute pleasure of working with Tony for 3 years at the EPA while I was a postdoctoral researcher. Tony was my mentor, colleague, advocate, and cheerleader. Navigating life as an early career postdoc can be challenging, but Tony steered me in the right direction and provided me opportunities I would not have had otherwise. Tony put me in the position to lead collaborative projects and papers, work directly with ...see more

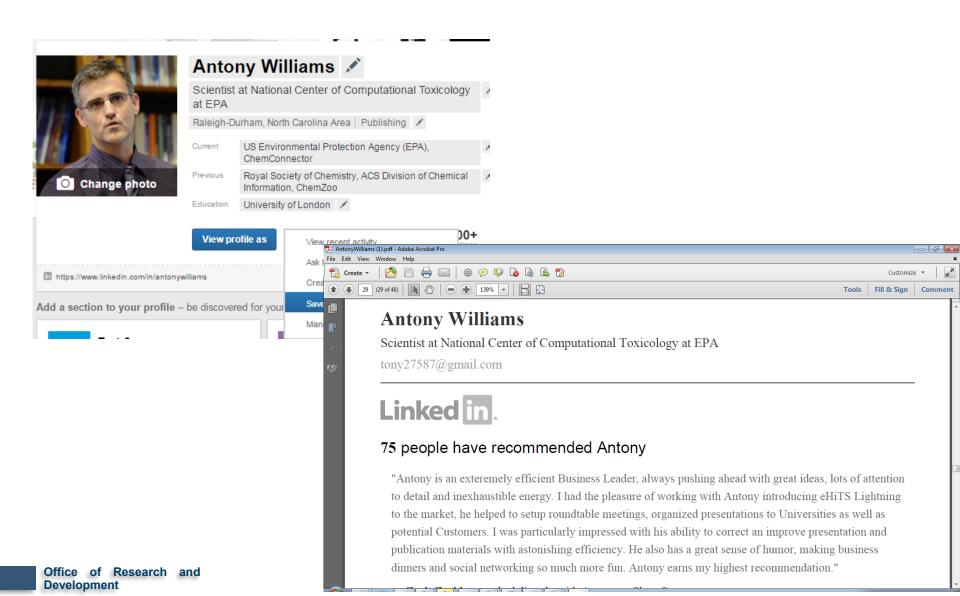


### Ask for "Skill; Endorsements"



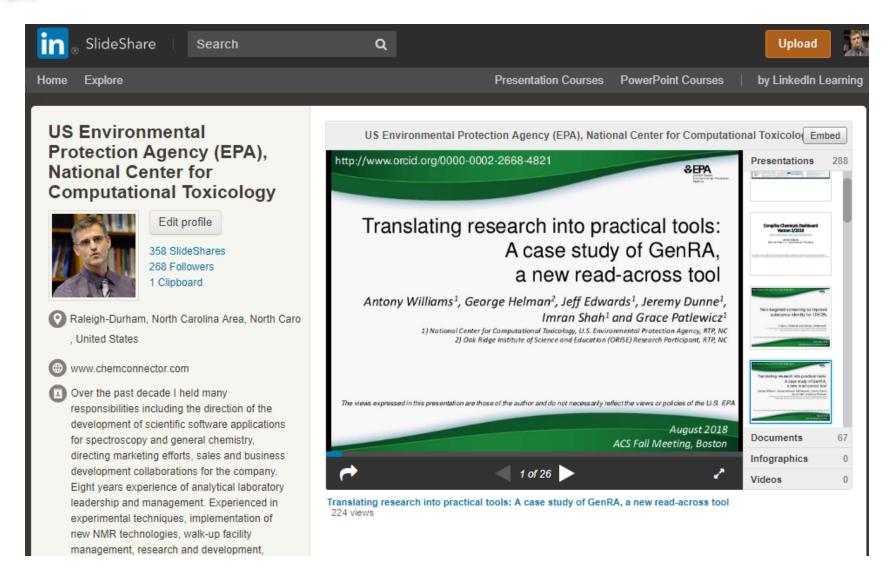


# **Instant Summary as a PDF**





### **Presentations**





# Sharing your works online – can get 1000s of views





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Antony Williams University of Dangers, April 26"2053

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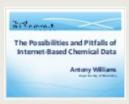


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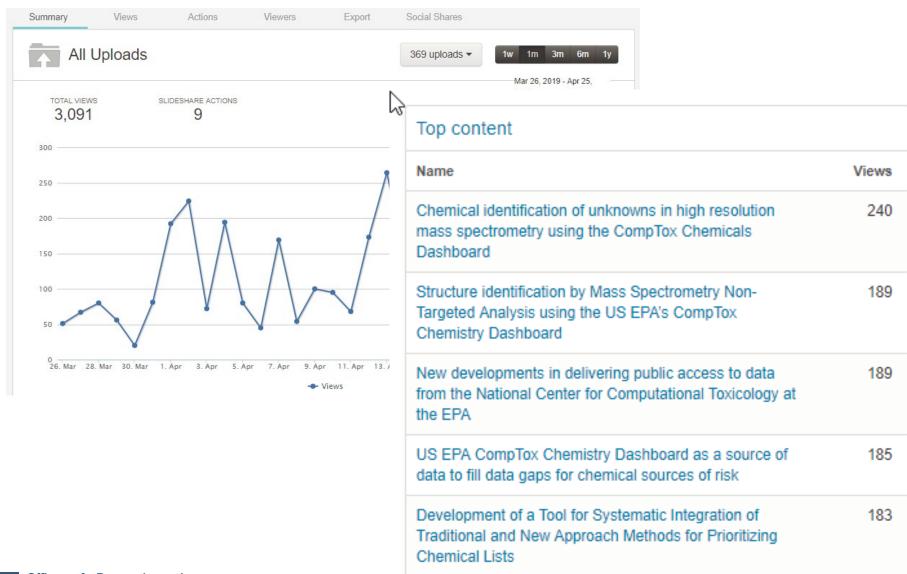


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## **Analytics**





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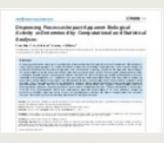
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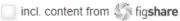
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Using the US EPA's CompTox Dashboard to support identification and screening of emerging organic contaminants in the environment Andrew D. McEachran and Antony J. Williams

Using the US EPA's CompTox Dashboard to support identificatio... Antony Williams v 30/06/2017 **Building an Online Profile Using** Social Networking Tools

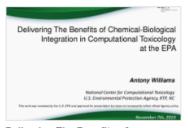
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Antony Williams v 30/05/2018 Breakthroughs in chemistry standards and database tools at the chemical-biology interface Antony J. Williams Environmental Protection Agency National Center for Computational Toxicology Durham, NC 919-541-1033 williams.antony@epa.gov

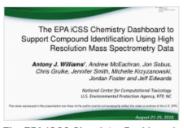
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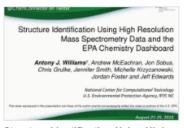
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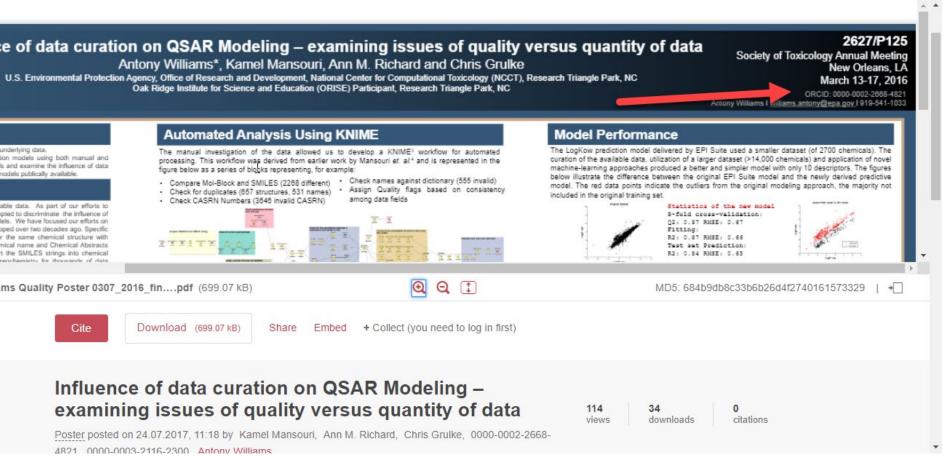
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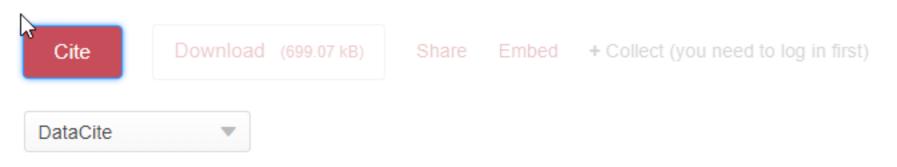


# Including all Posters... everything gets DOI'ed





# DOI everything if you can



Mansouri, Kamel; Richard, Ann M.; Grulke, Chris; 0000-0002-2668-4821; 0000-0003-2116-2300; Williams, Antony (2017): Influence of data curation on QSAR Modeling – examining issues of quality versus quantity of data. figshare. Poster.

https://doi.org/10.23645/epacomptox.5176573.v1



# DOI your research outputs and put online... Don't Wait!

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	2019	Analytical and bioanalytical chemistry, 1-17	Article	https://doi.org/10.1007/s00216-018-1526-4
	2018	Analytical and bioanalytical chemistry, 1-14	Article	https://doi.org/10.1007/s00216-018-1435-6
	2018	Journal of cheminformatics 10 (1), 10	Article	https://doi.org/10.1186/s13321-018-0263-1
	2018	Journal of cheminformatics 10 (1), 45	Article	https://doi.org/10.1186/s13321-018-0299-2
	2018	Environmental Science and Technology	Article	https://doi.org/10.1021/acs.est.8b04587
	2018	Science of The Total Environment 636, 901-909	Article	https://doi.org/10.1016/j.scitotenv.2018.04.266
•	2018	SCIENTIFIC DATA 5:180125	Article	https://doi.org/10.1038/sdata.2018.125
)	2018	Talanta 182, 371-379	Article	https://doi.org/10.1016/j.talanta.2018.01.022
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2	2018	Drug discovery today 23 (3), 661-672	Article	https://doi.org/10.1016/j.drudis.2018.01.018
3	2018	Computational Toxicology: Risk Assessment for Chemicals, 211-244	Chapter	https://doi.org/10.1002/9781119282594.ch8
4	2018	Environmental science & technology 52 (5), 3125-3135	Article	https://doi.org/10.1021/acs.est.7b04781
5	2018	Magn Reson Chem. 2018;56:703–715	Article	https://doi.org/10.1002/mrc.4737
5	2018	ACS Sustainable Chemistry & Engineering 6 (2), 2344-2352	Article	https://doi.org/10.1021/acssuschemeng.7b0379
7	2017	lournal of exposure science & environmental epidemiology. 1	Article	https://doi.org/10.1038/s41370-017-0012-v



Office of

# ResearchGate for Networking



Overview

Research

Antony John Williams ııl 45.02 · PhD · Edit

Info

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Introduction Edit 🔗 Affiliation Edit 🔗 I am presently a Computational Chemist at the National Center for Computational Toxicology with United States the US Environmental Protection Agency in Research Triangle Park, North Carolina. I am one of **Environmental Protection** the founders of the ChemSpider database (http://www.chemspider.com),one of the top chemistry Agency databases in the world that was acquired by the Royal Society of Chemistry in 2009. Prolific Location author with almost 200 peer-reviewed scientific publication and book chapters, 3 patents and United States 100s of public presentations. Department Skills and expertise (29) National Center for Computational Edit 🔗 Toxicology Medicinal and Pharmaceutical Chemistry **Analytical Chemistry** Spectroscopy Position Computational Chemist Drug Discovery Russell Scott Thomas's Lab Stats overview View all Lab head Russell Scott Thomas Lab members (6) 3,373 5,570 Total Research Interest (i) Citations Edit View lab 92 33,618 Reads (i) Recommendations Awarded grants (0) Developmer

Research you follow



### Add MANY Flavors of Research

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United States Environ
National Center for Co
Washington, D.C., CO,

#### out

n presently a Computational C nputational Toxicology with the ency in Research Triangle Park n one of the founders of the C tp://www.chemspider.com),or the world that was acquired by 19. Prolific author with almost plication and book chapters, 3 sentations.

ills and expertise (29)

Article >

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Negative Results >

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Raw Data >

# **Environmental Protection**

## ResearchGate for Sharing a PROJECT





Ouestions

Jobs

Funding Beta

Search for researchers, publications, and r

#### Project

#### The CompTox Chemicals Dashboard



Antony John Williams · D Christopher M Grulke · M Mansouri Ka





Goal: The CompTox Chemicals Dashboard is a web-based application the chemistry and biology data of different types including experimental and and fate and transport data, in vivo and in vitro toxicity data, real time pr across approaches. The dashboard, available at https://comptox.epa.gc data for 875,000 chemicals as of March 2019

Date: 30 March 2016

Lab: Russell Scott Thomas's Lab



added an update

#### New update to CompTox Chemicals Dashboard rel March 2019

An update to the dashboard has been released in March 2019 to coincide with t of Toxicology and American Chemical Society Spring meetings. Six months of e resulted in the addition of 110,000 new chemical substances being added (bring total of chemical substances to 876k), improved support for Toxcast bioassay c (integrating data from the invitroDB\_v3 release), the addition of multiple chemic new user interface enhancements across the application. A list of release notes available for review at https://comptox.epa.gov/dashboard/comptox\_release\_ne

comptox\_release\_notes.pdf · 48.41 KB

Comment Share



Dec 26, 2018 V

#### EPA's non-targeted analysis collaborative trial (ENTACT): genesis, design, and initial findings

Article Dec 2018

Williams

Elin M Ulrich · @ Jon R. Sobus · @ Christopher M Grulke · [...] · @ Antony John

In August 2015, the US Environmental Protection Agency (EPA) convened a workshop entitled "Advancing non-targeted analyses of xenobiotic chemicals in environmental and biological media." The purpose of the workshop was to bring...

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#### "MS-Ready" structures for non-targeted high-resolution mass spectrometry screening studies

Article Dec 2018

🧣 Andrew McEachran · 🦚 Mansouri Kamel · 🌑 Christopher M Grulke · [...] · @ Antony John Williams



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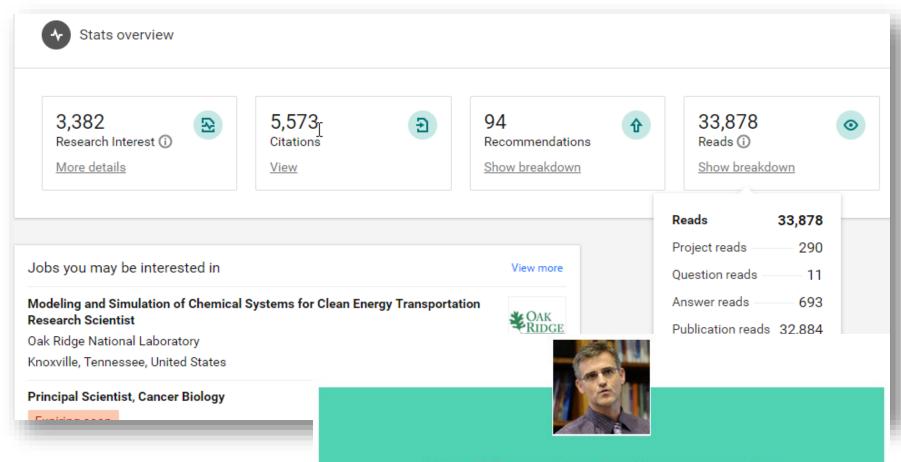
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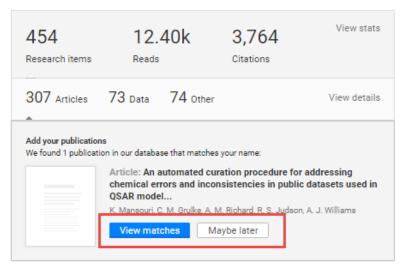
### ResearchGate for Networking

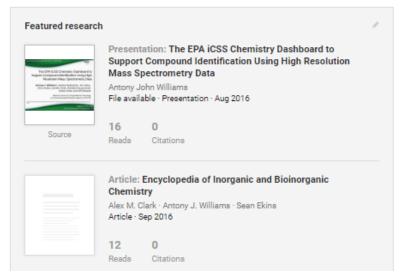


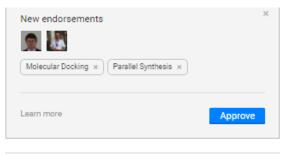
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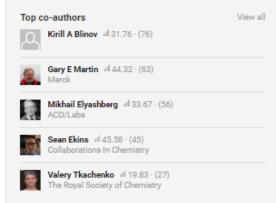


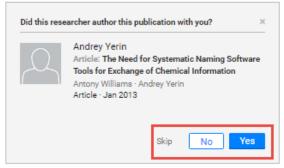
### Prompts you to Improve Your Profile













### What about "Data Sharing"?







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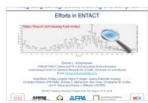
EPA's National Center f... 27/02/2019



CFM-ID generation of CompTox Chemicals Dashboard Structures EPA's National Center f... 27/02/2019



Bioactivity Exposure Ratio (BER) Analysis Using High Throughput T... Joshua Harrill 21/02/2019



Integrating Eawag, LCSB, MetFrag and CompTox Efforts in ENTACT Emma Schymanski v 21/02/2019



### **Supplementary Data Access**

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### EPA Comptox Chemistry Dashboard "MS-Ready" File of Structures

17.02.2017, 11:27 by Antony Williams

The EPA CompTox Chemistry Dashboard (at https://comptox.epa.gov) can be used by mass spectrometrists for the purpose of structure identification. A normal formula search would search the exact formula associated with any chemical, whether it include solvents of hydration, salts or multiple components. However, mass spectrometry detects ionized chemical structures and molecular formulae searches should be based on desalted, and desolvated structures with stereochemistry removed. We refer to these as "MS ready structures" and the MS-ready mappings are delivered as Excel Spreadsheets containing the Preferred Name, CAS-RN. DTXSID, Formula, Formula of the MS-ready structure and associated masses, SMILES and InChI Strings/Keys.

#### REFERENCES

http://link.springer.com/article/10.1007/s00216-016-0139-z

203 views downloads citations CATEGORIES Cheminformatics Cheminformatics and Quantitative Structure-Activity Relationships Analytical Spectrometry KEYWORD(S) Mass Spectrometry Chemistry Cheminformatics LICENCE



### "Personal Data Sharing"?



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### Antony Williams

♠ 0000-0002-2668-4821 ☑



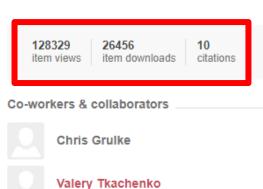
- Computational Chemist, National Center for Computational Toxicology, US-EPA (Chemistry)
- United States

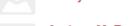






Over the past decade I held many responsibilities including the direction of the development of scientific software applications for spectroscopy and general chemistry, directing marketing efforts, sales and business development collaborations for the company. Eight years experience of analytical laboratory leadership and management. Experienced in experimental techniques, implementation of new NMR technologies, walk-up facility management, research and development, manufacturing support and teaching. Ability to provide situation analysis, creative solutions and establish good working relationships. Prolific author with over a hundred and fifty peer-reviewed









Sean Ekins

senior consultant Fuguay Varina, NC, USA



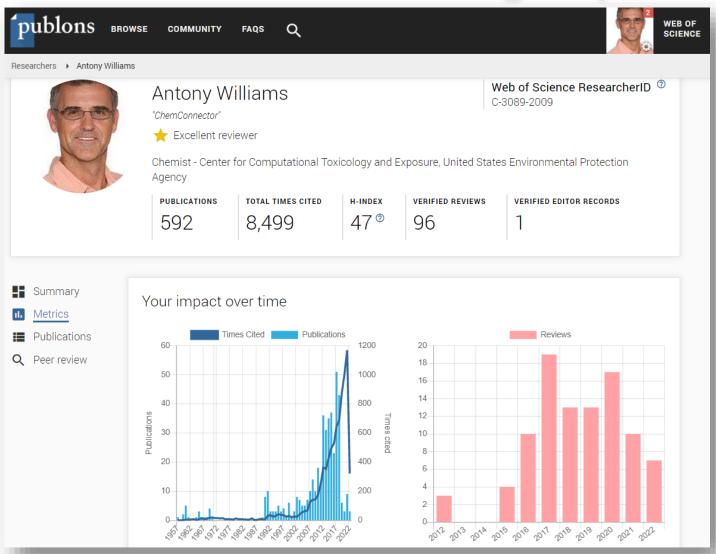
Jon Sobus



Kirill Blinov



### **Credit for Reviewing Papers?**





### Linked in ORCID too...

IT Son

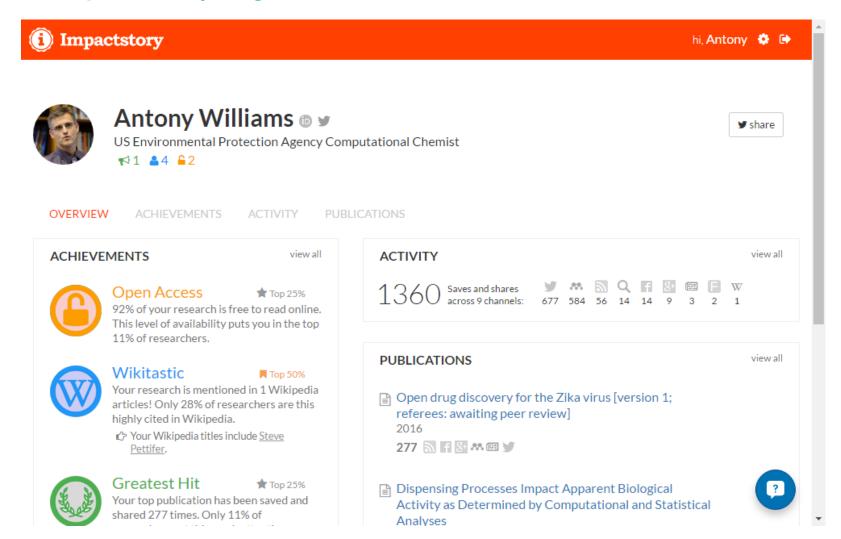


### **Alt-Metrics Manifesto**



## ImpactStory.

https://impactstory.org/u/0000-0002-2668-4821







### Antony Williams 🗈 🛩



**★**1 **▲**4 **6**2

🛩 share

OVERVIEW

ACHIEVEMENTS

ACTIVITY

PUBLICATIONS

#### **100 PUBLICATIONS**

+ Add publications

Open drug discovery for the Zika virus [version 1; referees: awaiting peer review]

2016

277 🔊 🗗 👺 👭 🕮 💕

Dispensing Processes Impact Apparent Biological Activity as Determined by Computational and Statistical Analyses

2013 PLoS ONE

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2015 J. Med. Chem.

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### Dispensing Processes Impact Apparent Biological Activity as Determined by Computational and Statistical Analyses

Sean Ekins, Joe Olechno, Antony J. Williams, Alexandre G. de Brevern 2013 PLoS ONE ♂

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#### Antony John Williams, 0000-0002-2668-4821

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Center of Computational Toxicology and Exposure, <u>Environmental Protection Agency</u> Verified email at epa.gov - <u>Homepage</u>

Chemistry Cheminformatics <u>Nuclear Magnetic Resonance</u> Drug Discovery

TITLE 🖽	:	CITED BY	YEAR	
HE Pence, A Willian	n online chemical information resource ns I Education 87 (11), 1123-1124	890	2010	
development ar I Sushko, S Novota	I modeling environment (OCHEM): web platform for data storage, model ad publishing of chemical information rskyi, R Körner, AK Pandey, M Rupp, W Teetz, r-aided molecular design 25 (6), 533-554	422	2011	
chemistry	Chemistry Dashboard: a community data resource for environmental rulke, J Edwards, AD McEachran, K Mansouri, ormatics 9 (1), 1-27	420	2017	
AM Richard, RS Ju	tal landscape: paving the road to 21st century toxicology dson, KA Houck, CM Grulke, P Volarath, in toxicology 29 (8), 1225-1251	388	2016	
AJ Williams, L Harla	semantic interoperability for drug discovery and, P Groth, S Pettifer, C Chichester, EL Willighagen, ay 17 (21-22), 1188-1198	340	2012	
	oning of approved drugs for rare and neglected diseases s, MD Krasowski, JS Freundlich ay 16 (7), 298-310	273	2011	

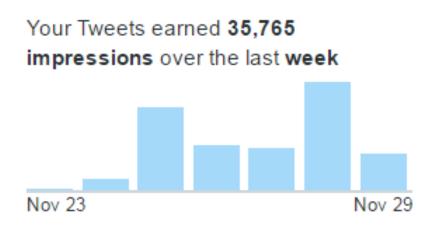
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#### **Bioinformatics Feeds**

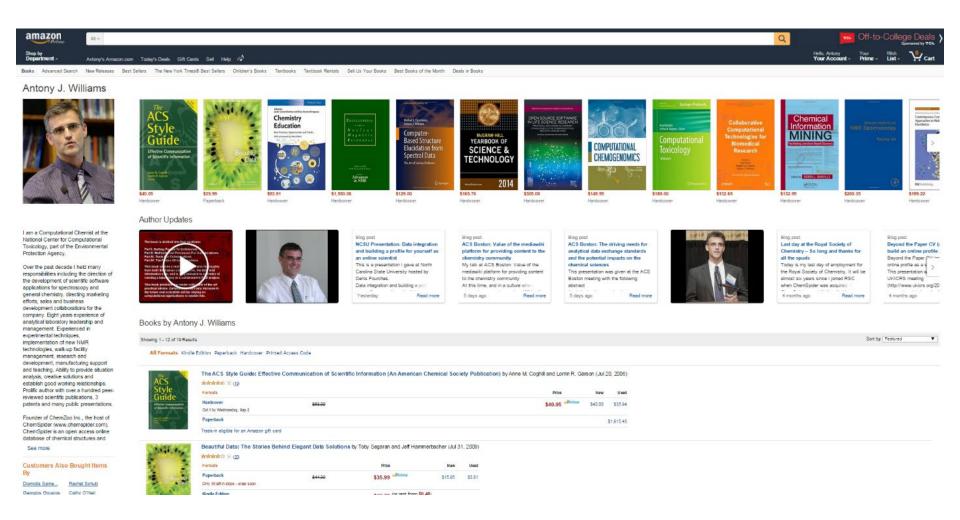
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### **Branding: I am ChemConnector**

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Over the past decade I held many responsibilities including the ...

### My Curriculum Vitae

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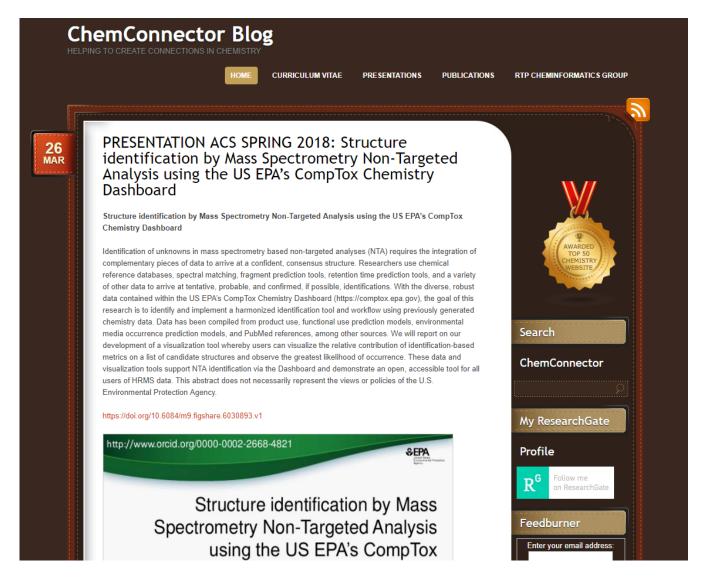
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At RSC we are involved with a number of projects utilizing ...



### My Primary CV is my Blog





### But the top of my CV...

Blog: http://www.chemconnector.com

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#### SUMMARY SCIENTIST, ONLINE CHEMISTRY EVANGELIST AND SENIOR EXECUTIVE

- Experienced in senior leadership and management
- Expert at bridging science and community
- Thought leader and evangelist for "Open Access Chemistry"



# What Next? My Recommendations

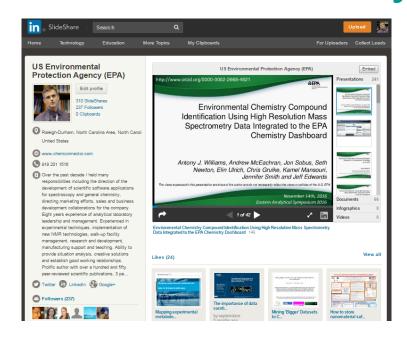
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### **Various Versions of This Talk**

### www.slideshare.net/AntonyWilliams



Email: williams.antony@epa.gov