

Science Communication & Impact

Steven B. Roberts

School of Aquatic and Fishery Sciences
University of Washington

robertslab.info
@sr320



Altmetric

Science Communication & Impact

What ~~faculty~~ I think about

Steven B. Roberts

School of Aquatic and Fishery Sciences
University of Washington

robertslab.info
@sr320



Altmetric

Bio

- ★ 2014 Associate Professor - University of Washington
- 2007 Assistant Professor
- 2003 Research Scientist - Marine Biological Laboratory
- 2002 Post-doc
- 1998 PhD Student - University of Notre Dame

★ Tenure

THE CHRONICLE OF HIGHER EDUCATION

February 17, 2015

- Home
- News**
- Global
- Opinion & Ideas
- Facts & Figures
- Blogs
- Advice
- Forums
- Jobs
- Search The C

Technology

[f](#) [t](#) [g](#) [in](#) | [Comments \(31\)](#)

June 3, 2013

Rise of 'Altmetrics' Revives Questions About How to Measure Impact of Research



facebook [Sign Up](#) Keep me l

 **University World News**
June 10, 2013 · 

Steven B Roberts's 103-page tenure package features the usual long-as-your-arm list of peer-reviewed publications. But Roberts, an assistant professor at the University of Washington who studies the effects of environmental change on shellfish, chose to add something less typical to his dossier – evidence of his research's impact online, reports Jennifer Howard, in The Chronicle of Higher Education.

 **Rise of 'altmetrics' and measuring impact of research - University World News**
UNIVERSITYWORLDNEWS.COM

[Like](#) · [Comment](#) · [Share](#)

★ Tenure

Tenure Package [SB Roberts]

Posted in Outreach, Publication

If anyone is interested in what a tenure package looks like (I know I could have benefited from a few more examples) I am making mine [available here](#).

Below is one of the tables I included, an attempt to quantify online science outreach.

Platform	Purpose	URL	Metrics
Website	Primary Lab Website	faculty.washington.edu/sr320	2 months - 216 unique visitors
Wiki	Share online lab notebooks and protocols, lab communication	genefish.wikispaces.com	2012 - 20k views
Blog	Lab Tumblr	genefish.tumblr.com	12 months - 6137 visits
Facebook	Shares Lab Tumblr posts	goo.gl/pOitK	47 likes; 11k Friends of Fans
Blog	Blog specifically documenting our Ocean Acidification Research	safsoa.wordpress.com	2012 - 1645 views
Twitter	Automatic lab feed - notebook entries, posts, events	twitter.com/genefish	17,330 tweets
Twitter	Personal twitter account	twitter.com/sr320	1491 tweets
Flickr	Sharing research images	goo.gl/yzwE7	2726 photos
Youtube	Primarily host instructional videos	youtube.com/user/srlab	7351 views
Scribd	Share documents, primarily undergrad student papers	scribd.com/sr320	9908 reads
Figshare	Sharing datasets and documents	goo.gl/umGFg	4947 views
Slideshare	Sharing presentations	slideshare.net/sr320	49 slideshares

PROMOTION PACKAGE

For promotion from the rank of Assistant to Associate Professor

Steven Beyer Roberts

Assistant Professor
School of Aquatic and Fishery Sciences
University of Washington

<http://faculty.washington.edu/sr320>

<http://goo.gl/LRXbvD>

★ Tenure

PROMOTION PACKAGE

For promotion from the rank of Assistant to Associate Professor

Steven Beyer Roberts

Assistant Professor
School of Aquatic and Fishery Sciences
University of Washington

<http://faculty.washington.edu/sr320>

2012

Roberts SB, Hauser L, Seeb LW, Seeb JE (2012) Development of genomic resources for Pacific herring through targeted transcriptome pyrosequencing. PLoS ONE 7(2): e30908. doi:10.1371/journal.pone.0030908 [I F E A W]

Pages: 10

Article Views: 1075

Supplemental Data Views: 3792 (*most viewed on Figshare*)

Roberts SB and Gavery MR (2012) Is there a relationship between DNA methylation and phenotypic plasticity in invertebrates? Frontiers in Physiology. 2:116. doi:0.3389/fphys.2011.00116 [I F E A W]

Pages: 5

Article Views: 651

Gavery MR* and Roberts SB. (2012) Characterizing short read sequencing for gene discovery and RNA-Seq analysis in *Crassostrea gigas*. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, Available online 29 December 2011. doi: 10.1016/j.cbd.2011.12.003 [I F E A W]

Pages: 6

Statistic: #1 most downloaded article in journal January – March 2012

<http://goo.gl/LRXbvD>



PROMOTION PACKAGE

For promotion from the rank of Assistant to Associate Professor

Steven Beyer Roberts

Assistant Professor
School of Aquatic and Fishery Sciences
University of Washington

<http://faculty.washington.edu/sr320>

2012

Roberts SB, Hauser L, Seeb LW, Seeb JE (2012) Development of genomic resources for Pacific herring through targeted transcriptome pyrosequencing. PLoS ONE 7(2): e30908. doi:10.1371/journal.pone.0030908 [I F E A W]

Pages: 10

Article Views: 1075

Supplemental Data Views: 3792 (*most viewed on Figshare*)

Roberts SB and Gavery MR (2012) Is there a relationship between DNA methylation and phenotypic plasticity in invertebrates? Frontiers in Physiology. 2:116. doi:0.3389/fphys.2011.00116 [I F E A W]

Pages: 5

Article Views: 651

Gavery MR* and Roberts SB. (2012) Characterizing short read sequencing for gene discovery and RNA-Seq analysis in *Crassostrea gigas*. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, Available online 29 December 2011. doi: 10.1016/j.cbd.2011.12.003 [I F E A W]

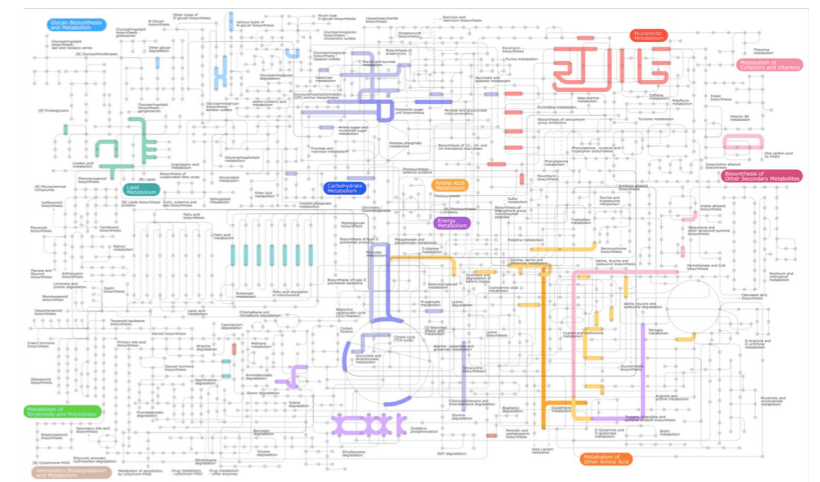
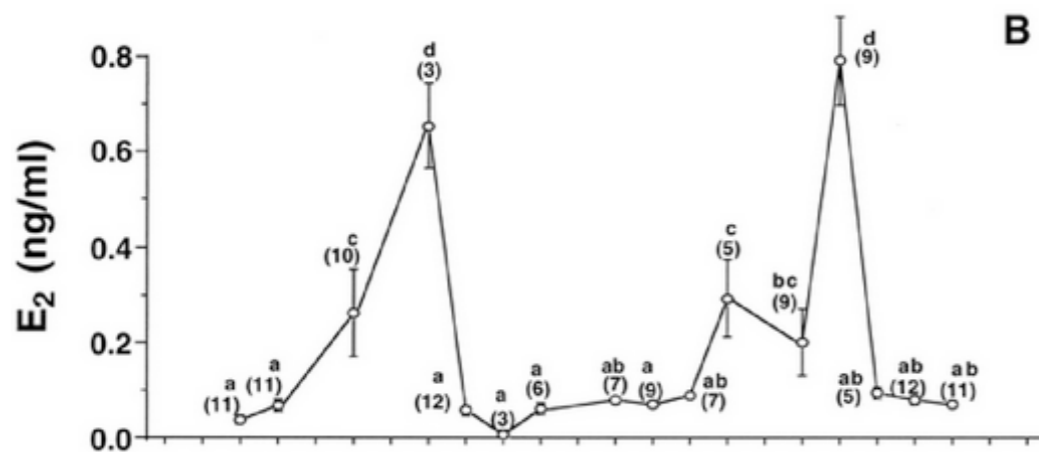
Pages: 6

Statistic: #1 most downloaded article in journal January – March 2012

<http://goo.gl/LRXbvD>

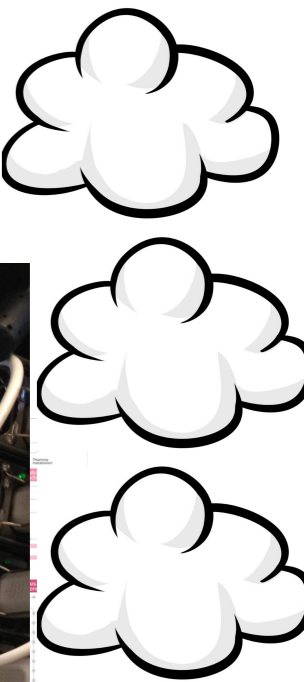
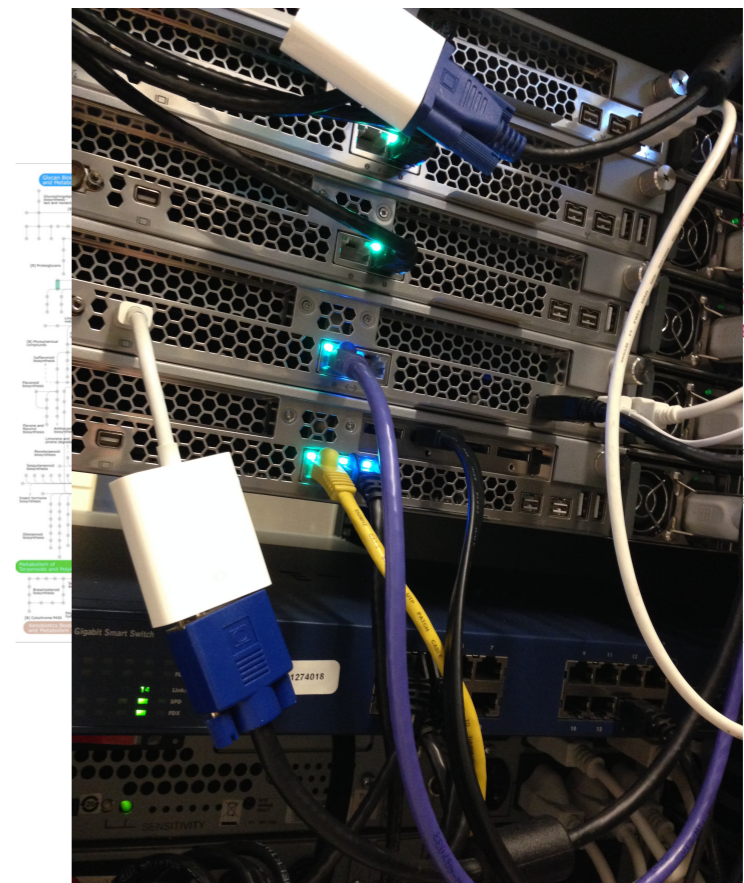
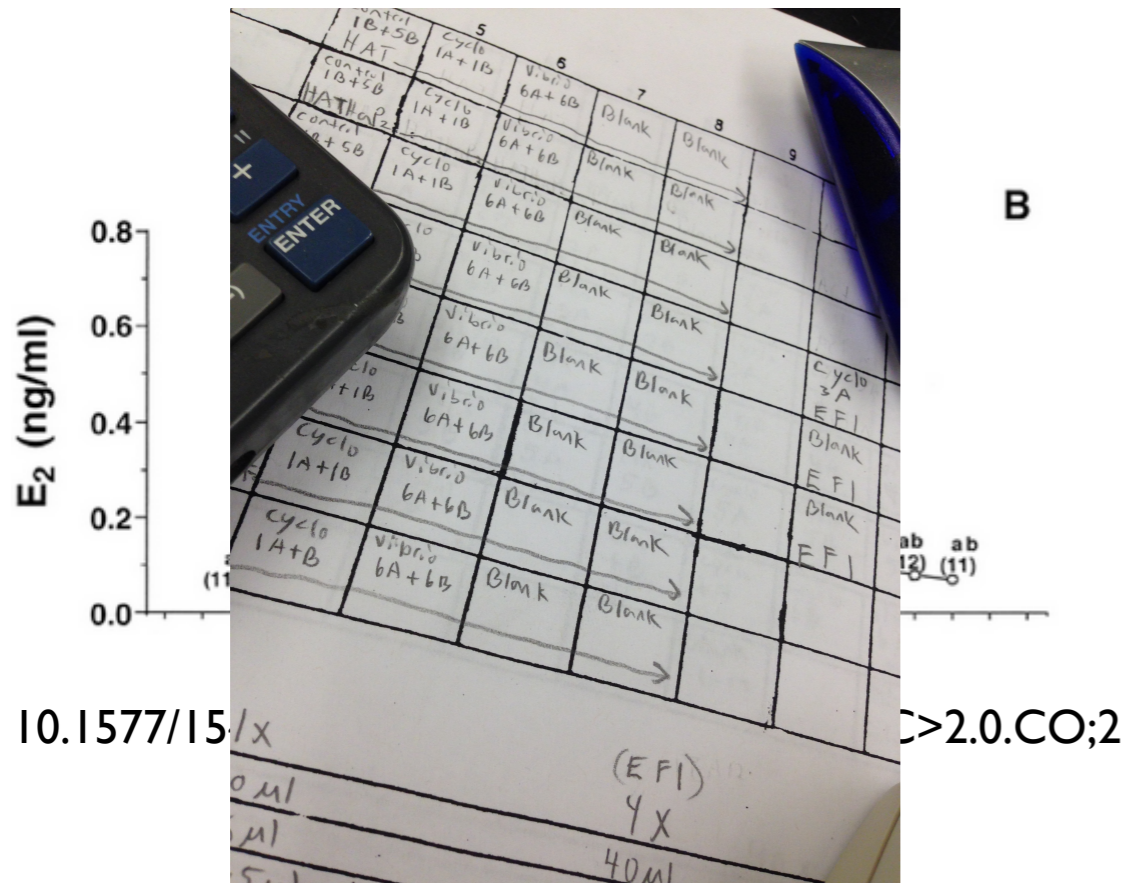
Bio

2014 Associate Professor - University of Washington
2007 Assistant Professor
2003 Research Scientist - Marine Biological Laboratory
2002 Post-doc
1998 PhD Student - University of Notre Dame



Bio

- 2014 Associate Professor - University of Washington
- 2007 Assistant Professor
- 2003 Research Scientist - Marine Biological Laboratory
- 2002 Post-doc
- 1998 PhD Student - University of Notre Dame



Idea Generation

Data Acquisition
and Analysis

Publication

Idea Generation

Publication

Publication

Data Acquisition
and Analysis

Publication

Publication

Idea Generation Publication

Data Acquisition
and Analysis Publication

PLE
continually
evolving

twitter

Google+

Search



Communities

Roberts Lab

social bookmarking

Delicious

diigo

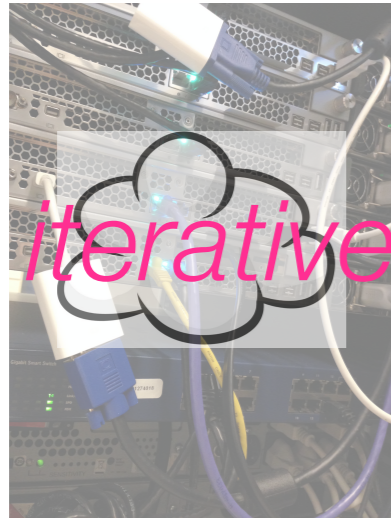
Pinboard



Idea Generation Publication

Publication

Data Acquisition and Analysis Publication
Publication

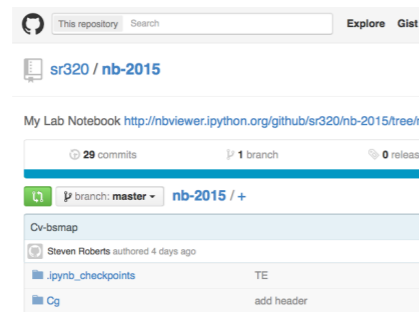


lab notebooks



IP[y]: IPython
Interactive Computing

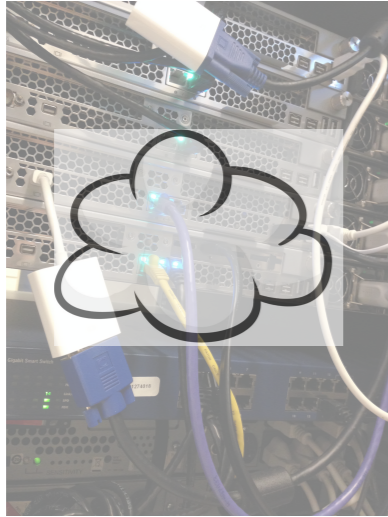
Open
Notebook
Science



Idea Generation Publication

**Data Acquisition
and Analysis** Publication
Publication
Publication

universal challenges



archiving metadata

version control

simple sharing

data management

self-discoverability

provenance

collaboration

Idea Generation

Publication

Data Acquisition
and Analysis

Publication

Publication

Publication



Authorea

Write science together.

Authorea is the collaborative platform for research.

bioRxiv beta

THE PREPRINT SERVER FOR BIOLOGY

PeerJ PrePrints - where biology is heading

Search PrePrints

Submit a PrePrint for free | Author instructions

Idea Generation

Data Acquisition and Analysis

Publication

Publication

Publication

Publication



Authorea

Write science together.

Authorea is the collaborative platform for research.



PeerJ PrePrints - where biology is heading

Search PrePrints

Submit a PrePrint for free | Author instructions

Home

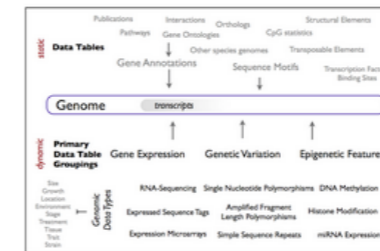
sr320 edited this page on Feb 7 · 23 revisions

This wiki serves as the *primary means for documentation* for project qdod: **querying disparate oyster datasets.**

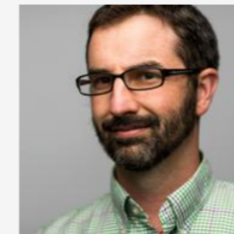
In brief, data in the form of delimited text files is aggregated into [SQLShare](#) where they can be easily queried. The simplest way to start exploring the uses for this system is to interact with SQLShare using the simple web interface. All you need to get started is a Google account. [Please see this page for a beginner's guide to SQLshare.](#)

There is a python client for advanced users.

Below is schematic representation of the different types of datasets.



Reference Genome Sequence files are described on [this page](#).



Steven Roberts

Associate Professor (Marine Biology)
University of Washington



Research statistics

12128 views

112 shares

cites coming soon

Active categories

- Marine Biology
- Molecular Biology
- Physiology
- Bioinformatics
- Genetics

Related authors

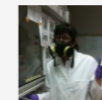
- Emma Timmins-Schiffman
- Claire Olson
- Mackenzie Gavery
- Samuel White
- Halley Froehlich

Recently used tags

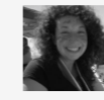
- Dabob Bay
- Fidalgo Bay
- OysterBay
- temperature data
- iPython
- thraustochytrid
- qpx
- clam
- quahog
- Gene regulation

Working with...

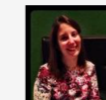
[View all](#)



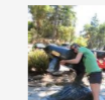
elene dorfmeier



Caroline Storer
Graduate Student



Colleen Burge
Postdoctoral research ass...



Emma Timmins-Schiffman
Postdoctoral Fellow



Claire C

Most popular uploads

42 uploads in total - [view all](#)

Upload Name	Type	Views	Shares
Herring Hepatic Transcriptome 34300 contigs.fa	dataset	4996 views	16 shares
Herring Testicular Transcriptome 31545 contigs.fa	dataset	780 views	18 shares
Bay scallop population structure on Cape Cod	fileset	683 views	14 shares

Steven
Roberts



Associate Professor in the School of Aquatic and Fishery Sciences
at the University of Washington.



Open Access

Global Reach

57 Articles

11.6k views

1.1k saves

81 tweet

Show tweets (79)

Sorting by default

Development of Genomic Resources for Pacific Herring through Targeted Transcriptome Pyrosequencing

(2012) Roberts, Hauser, Seeb et al.. *PLoS ONE*

read fulltext

highly cited

highly saved

highly discussed

highly viewed

viewed

RNA-Seq Reveals an Integrated Immune Response in Nucleated Erythrocytes

(2011) Morera, Roher, Ribas et al.. *PLoS ONE*

read fulltext

Highly saved by scholars

This product has 44 Mendeley readers. That's more than 92% of 2012 on Impactstory. Click for details.

highly cited

highly saved

highly discussed

highly viewed

Is There a Relationship between DNA Methylation and Phenotypic Plasticity in Invertebrates?

(2012) Roberts, Gavery. *Frontiers in Physiology*

read fulltext

A context dependent role for DNA methylation in bivalves

(2014) Gavery, Roberts. *Briefings in Functional Genomics*

read fulltext

highly cited

highly discussed

highly viewed

saved

Predominant intragenic methylation is associated with gene expression characteristics in a bivalve mollusc

highly cited

highly discussed

highly viewed

saved

Steven Roberts



Associate Professor in the School of Aquatic and Fishery Sciences at the University of Washington.



Open Access

Global Reach

Overview

Map

Fans

articles (57)

datasets (18)

figures (2)

peer reviews (3)

posters (2)

slide decks (7)

software products (25)

theses (1)

webpages (3)



Selected works

Does DNA methylation facilitate phenotypic plasticity in marine invertebrates?

(2014) Slideshare.

view slides

highly viewed

Crassostrea gigas high-throughput bisulfite sequencing (larvae and sperm tissues)

(2014) figshare.

highly viewed

viewed

Key profile metrics

11.6k views on 57 articles

2.6k views on 7 slide decks

1.1k saves on 57 articles

107 views on 3 peer reviews



Altmetric

Austral Summer Institute Course Wrap-up

Last month I had that opportunity to visit the University of Concepción, and teach a course at the Austral Summer Institute – "Physiological response of marine organisms to environmental change from a..."

[Read More](#)

Peer-Reviewed Publications

see also [preprints](#)

Timmins-Schiffman E, Coffey WD, Hua W, Nunn BL, Dickinson GH and Roberts SB. (2014). [Shotgun proteomics reveals physiological responses to ocean acidification in *Crassostrea gigas*](#) BMC Genomics 2014, 15:951 doi:10.1186/1471-2164-15-951 6

Tweeted by 9

[See more details](#) | [Close](#)

Olson CE and Roberts SB. (2014). [Genome-wide profiling of DNA methylation and gene expression in *Crassostrea gigas* male gametes](#) Frontiers in Physiology. 5:224. doi: 10.3389/fphys.2014.0022 5

Gavery MR and Roberts SB. (2014) [A context specific role for DNA methylation in bivalves](#) Briefings in Functional Genomics. doi:10.1093/bfpg/elt054 ([pdf](#)) 3

Gavery MR and Roberts SB. (2013) [Predominant intragenic methylation in the genome of a bivalve mollusc](#) PeerJ 1:e215. doi:10.7717/peerj.215 6

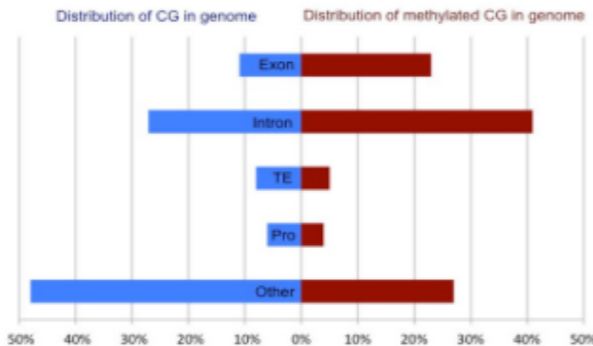
Tweeted by 7

Mentioned by 1 peer review sites

On 1 Facebook pages

10 readers on Mendeley

[See more details](#) | [Close this](#)



robertslab.info

Garcia-Vedrenne AE, Groner M, Page-Karjian A, Siegmund G-F, Singhal S, Sziklay J and Roberts SB. (2013) [Development of Genomic Resources for a thraustochytrid Pathogen and Investigation of its Role in the Pathogenesis of a Bivalve Mollusc](#) PLoS ONE 8(9): e74196. doi:10.1371/journal.pone.0074196 2

Tweeted by 3

3 readers on Mendeley

[See more details](#) | [Close this](#)

Storer CS, Quinn TP and Roberts SB. (2013) [Physiological changes in brain tissue of senescent sockeye salmon](#) Biogerontology. doi:10.1007/s10522-013-9450-0

Burge CA, Mouchka ME, Harvell CD and Roberts SB. (2013) [Immune response of the Caribbean sea fan, *Gorgonia ventalina*, exposed to an *Aplanochytrium* parasite as revealed by transcriptome sequencing](#) Frontiers in Physiology 4:180. doi:10.3389/fphys.2013.00180 15

Timmins-Schiffman EB, Nunn BL, Goodlett DR and Roberts SB. (2013) [Shotgun proteomics as a viable approach for biological discovery in the Pacific oyster](#) Conservation Physiology. doi:10.1093/conphys/cot009 3

Tweeted by 3



Altmetric

Peer-Reviewed Publications

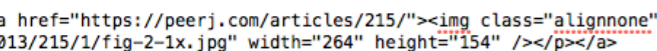
see also [preprints](#)

Timmins-Schiffman E, Coffey WD, Hua W, Nunn BL, Dickinson GH and Roberts SB. (2014). [Shotgun proteomics reveals physiological response to ocean acidification in *Crassostrea gigas*] (<http://www.biomedcentral.com/1471-2164/15/951/>) BMC Genomics 2014, 15:951 doi:10.1186/1471-2164-15-951 Altmetric 6

Olson CE and Roberts SB. (2014). [Genome-wide profiling of DNA methylation and gene expression in *Crassostrea gigas* male gametes] (<http://journal.frontiersin.org/Journal/10.3389/fphys.2014.00224/abstract>) Frontiers in Physiology. 5:224. doi: 10.3389/fphys.2014.00224 Altmetric 5

Gavery MR and Roberts SB. (2014) [A context specific role for DNA methylation in bivalves] (<http://bfg.oxfordjournals.org/content/13/3/217>) Briefings in Functional Genomics. doi:10.1093/bfgp/elt054 ([pdf] (<http://eagle.fish.washington.edu/cnidarian/Briefings%20in%20Functional%20Genomics-2014-Gavery-217-22.pdf>)) Altmetric 3

Gavery MR and Roberts SB. (2013) [Predominant intragenic methylation is associated with gene expression characteristics in a bivalve mollusc] (<https://peerj.com/articles/215/>) PeerJ 1:e215. doi:10.7717/peerj.215 Altmetric 6



Garcia-Vedrenne AE, Groner M, Page-Karjian A, Siegmund G-F, Singhal S, Sziklay J and Roberts SB. (2013) [Development of Genomic Resources for a thraustochytrid Pathogen and Investigation of Temperature Influences on Gene Expression] (<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0074196>) PLoS ONE 8(9): e74196. doi:10.1371/journal.pone.0074196 Altmetric 2

Storer CS, Quinn TP and Roberts SB. (2013) [Quantitative PCR analysis used to characterize physiological changes in brain tissue of senescent sockeye salmon] (<http://link.springer.com/article/10.1007/s10522-013-9448-1>) Biogerontology. doi:10.1007/s10522-013-9448-1 ([pdf] (<https://dl.dropboxusercontent.com/u/115356/docs/Storer2013.pdf>)) Altmetric 2

Burge CA, Mouchka ME, Harvell CD and Roberts SB. (2013) [Immune response of the Caribbean sea fan, *Gorgonia ventalina*, exposed to an *Aplanochytrium* parasite, as revealed by transcriptome sequencing] (http://www.frontiersin.org/invertebrate_physiology/10.3389/fphys.2013.00180/abstract) Frontiers in Physiology 4:180. doi:10.3389/fphys.2013.00180 Altmetric 15

Timmins-Schiffman EB, Nunn BL, Goodlett DR and Roberts SB. (2013) [Shotgun proteomics as a viable approach for biological discovery in the Pacific oyster] (<http://conphys.oxfordjournals.org/content/1/1/cot009.full.pdf+html>) Conservation Physiology. doi:10.1093/conphys/cot009 Altmetric 3

Peer-Reviewed Publications

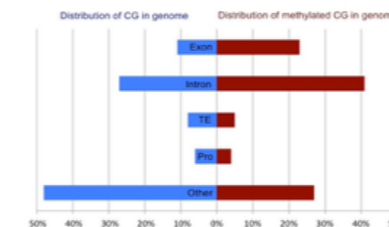
see also [preprints](#)

Timmins-Schiffman E, Coffey WD, Hua W, Nunn BL, Dickinson GH and Roberts SB. (2014). [Shotgun proteomics reveals physiological response to ocean acidification in *Crassostrea gigas*] (<http://www.biomedcentral.com/1471-2164-15-951/>) BMC Genomics 2014, 15:951 doi:10.1186/1471-2164-15-951 Altmetric 6

Olson CE and Roberts SB. (2014). [Genome-wide profiling of DNA methylation and gene expression in *Crassostrea gigas* male gametes] (<http://journal.frontiersin.org/Journal/10.3389/fphys.2014.00224/abstract>) Frontiers in Physiology. 5:224. doi: 10.3389/fphys.2014.00224 Altmetric 5

Gavery MR and Roberts SB. (2014) [A context specific role for DNA methylation in bivalves] (<http://bfg.oxfordjournals.org/content/13/3/217>) Briefings in Functional Genomics. doi:10.1093/bfgp/elt054 ([pdf] (<http://eagle.fish.washington.edu/cnidarian/Briefings%20in%20Functional%20Genomics-2014-Gavery-217-22.pdf>)) Altmetric 3

Gavery MR and Roberts SB. (2013) [Predominant intragenic methylation is associated with gene expression characteristics in a bivalve mollusc] (<https://peerj.com/articles/215/>) PeerJ 1:e215. doi:10.7717/peerj.215 Altmetric 6



Garcia-Vedrenne AE, Groner M, Page-Karjian A, Siegmund G-F, Singhal S, Sziklay J and Roberts SB. (2013) [Development of Genomic Resources for a thraustochytrid Pathogen and Investigation of Temperature Influences on Gene Expression] (<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0074196>) PLoS ONE 8(9): e74196. doi:10.1371/journal.pone.0074196 Altmetric 2

Storer CS, Quinn TP and Roberts SB. (2013) [Quantitative PCR analysis used to characterize physiological changes in brain tissue of senescent sockeye salmon] (<http://link.springer.com/article/10.1007/s10522-013-9448-1>) Biogerontology. doi:10.1007/s10522-013-9448-1 ([pdf] (<https://dl.dropboxusercontent.com/u/115356/docs/Storer2013.pdf>)) Altmetric 2

Burge CA, Mouchka ME, Harvell CD and Roberts SB. (2013) [Immune response of the Caribbean sea fan, *Gorgonia ventalina*, exposed to an *Aplanochytrium* parasite, as revealed by transcriptome sequencing] (http://www.frontiersin.org/invertebrate_physiology/10.3389/fphys.2013.00180/abstract) Frontiers in Physiology 4:180. doi:10.3389/fphys.2013.00180 Altmetric 15

Timmins-Schiffman EB, Nunn BL, Goodlett DR and Roberts SB. (2013) [Shotgun proteomics as a viable approach for biological discovery in the Pacific oyster] (<http://conphys.oxfordjournals.org/content/1/1/cot009.full.pdf+html>) Conservation Physiology. doi:10.1093/conphys/cot009 Altmetric 3

metrics

FigShare

Steven Roberts @sr320 · May 8

Stein: "#reproducibility is just a synonym for actually right" #uwrepro modular.math.washington.edu

← ↻ 3 📌 ★ 3 🗑️ ⋮

Twitter

Steven Roberts @sr320 · May 8

Stark: "key to reproducibility is in the training" #uwrepro

← ↻ 📌 ★ 🗑️ ⋮

Steven Roberts @sr320 · May 8

Freire: noWorkflow -supporting infrastructure to run scientific experiments w/o workflow management system github.com/gems-uff/nowor... #uwrepro

← ↻ 📌 ★ 🗑️ ⋮

[View summary](#)

	Post	Total Reach?
📄	Roberts Lab shared a link.	--
📄	#TBT #wayback	--
📄	Who is doing Science today?	17
📄	Who is doing Science today?	16
📄	Roberts Lab shared a link.	38

Facebook

Subject areas

Aquaculture, Fisheries and Fish Science

Marine Biology

Molecular Biology

66

Visitors

111

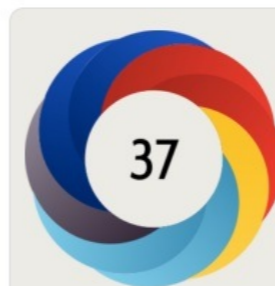
Views

24

Downloads

📶 [View all metrics + mentions on the Web](#)

Altmetric



Score in context

Puts article in the top 5% of all articles ranked by attention

[show more...](#)

Mentioned by

- 2 news outlets
- 1 blog
- 2 tweeters
- 1 Facebook user
- 1 Wikipedia page

Evidence for distri... cuttlefish, Sepia of

News Blogs Twitter Face

So far Altmetric has seen 3 stories fr

The Washington Post

Cuttlefish ski... Washington Pos... Cuttlefish are ug... creatures from e

POPULAR SCIENCE

An Electronic... Popular Science... Octopus Flickr C... adaptations up i

dataset	4923 views	16 shares
dataset	758 views	18 shares
fileset	671 views	14 shares
dataset	464 views	5 shares
paper	433 views	1 shares
paper	331 views	9 shares

PeerJ altmetrics

Top referrals unique visitors

news-oceanacidification-icc.org

18

Web Analytics



metrics

FigShare

Steven Roberts @sr320 · May 8

Stein: "#reproducibility is just a synonym for actually right" #uwrepro modular.math.washington.edu

← ↻ 3 📌 ★ 3 🗑️ ⋮

Twitter

Steven Roberts @sr320 · May 8

Stark: "key to reproducibility is in the training" #uwrepro

← ↻ 📌 ★ 🗑️ ⋮

Steven Roberts @sr320 · May 8

Freire: noWorkflow -supporting infrastructure to run scientific experiments w/o workflow management system github.com/gems-uff/nowor... #uwrepro

← ↻ 📌 ★ 🗑️ ⋮

[View summary](#)

changes behavior, for the better.

Post	
Roberts Lab shared	
#TBT #wayback	--
Who is doing Science today?	17
Who is doing Science today?	16
Roberts Lab shared a link.	38

Facebook

Subject areas

Aquaculture, Fisheries and Fish Science

Marine Biology

Molecular Biology

66

Visitors

111

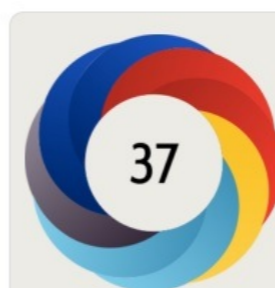
Views

24

Downloads

[View all metrics + mentions on the Web](#)

Altmetric



Score in context

Puts article in the top 5% of all articles ranked by

- 2 tweeters
- 1 Facebook user
- 1 Wikipedia page

Evidence for distri... cuttlefish, Sepia of

News Blogs Twitter Face

So far Altmetric has seen 3 stories fr

The Washington Post

Cuttlefish ski... Washington Pos... Cuttlefish are u... creatures from e

dataset	4923 views	16 shares
dataset	758 views	18 shares
fileset	671 views	14 shares
dataset	464 views	5 shares
paper	433 views	1 shares
paper	331 views	9 shares

PeerJ altmetrics

Top referrals unique visitors

news-oceanacidification-icc.org

18

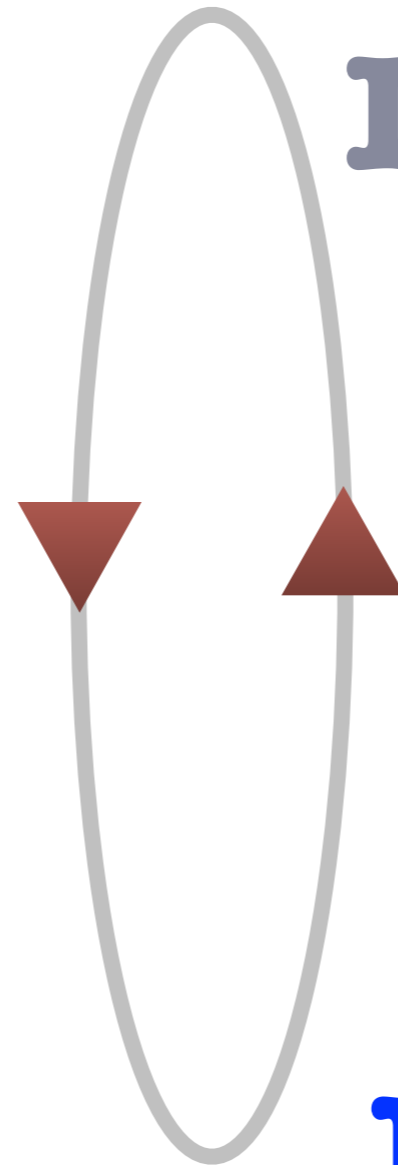
Web Analytics



Open Science

Getting Information

Idea Generation Publication
 Publication
Data Acquisition Publication
and Analysis Publication



The stated mission of the University of Washington is “the advancement, *dissemination* and preservation of knowledge.”

Sharing Information

Any metric to inform on efficiency is valuable

thanks!

Steven Roberts

sr320@uw.edu

robertslab.info

@sr320