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	The Letter
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What's publishing look like in ten years?

	The Letter	The Journal
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What's publishing look like in ten years?

	The Letter	The Journal	The DcJ
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Reader SM, Hager Y, Laland KN (2011) *Journal of the Royal Society B* 366(1567): 1017-1021

Additionally, please cite the Dryad data package:
Reader SM, Hager Y, Laland KN (2011) *Data in Brief* doi:10.5061/dryad.t0q94

Dryad File Identifier doi:10.5061/dryad.t0q94

Description Please refer to Reader SM et al. (2011)

Keywords social learning, behavior

Date Deposited 2012-11-14T18:00:48Z

Scientific Names Primates

Contained in Data Package Data from: The evolution of social learning in primates



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Effect of i.t. administration of PD98059 on ERK phosphorylation in Vc neurons and nocifensive behavior. [Claim article](#)

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Published on 23 Feb 2013 - 12:41 (GMT)
File size is 943.04 KB

This data is part of a published article: [Involvement of ERK Phosphorylation of Trigeminal Spinal Subnucleus Caudalis Neurons in Thermal Hypersensitivity in Rats with Infraorbital Nerve Injury](#)

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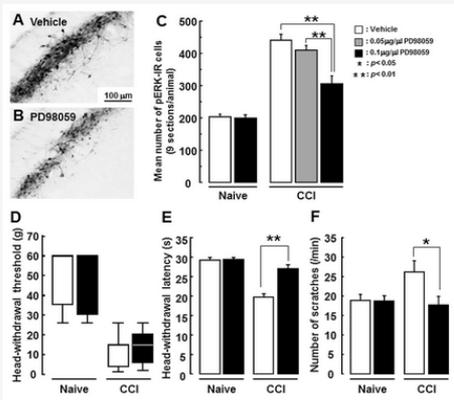
Categories

- Physiology
- Neuroscience

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Figure 1: Effect of i.t. administration of PD98059 on ERK phosphorylation in Vc neurons and nocifensive behavior.



Panel C: Mean number of pERK+ cells (# sections/animal)

Group	Vehicle	10.05µg/i.t. PD98059	10.1µg/i.t. PD98059
Naive	~200	~200	~200
CCI	~450	~400	~300

Panel D: Head-withdrawal thresholds (g)

Group	Vehicle	PD98059
Naive	~55	~55
CCI	~15	~15

Panel E: Head-withdrawal latencies (s)

Group	Vehicle	PD98059
Naive	~30	~30
CCI	~20	~28

Panel F: Number of scratches (min)

Group	Vehicle	PD98059
Naive	~20	~20
CCI	~25	~18

Legend: □ Vehicle, ▨ 10.05µg/i.t. PD98059, ■ 10.1µg/i.t. PD98059
* p<0.05, ** p<0.01

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 97 commits

file to write csv data files from cached rda data files

 **cboettig** authored 5 days ago latest commit b6635f2aab 

 R	10 months ago	avoid nans [cboettig]
 data	a year ago	Merge branch 'master' of github.com:cboettig/earlywarning [cboettig]
 inst	5 days ago	file to write csv data files from cached rda data files [cboettig]
 man	a year ago	summary stat looping function, dependencies added [cboettig]
 DESCRIPTION	8 months ago	updated description [cboettig]
 NAMESPACE	a year ago	documentation etc [cboettig]
 README.md	9 months ago	README file added [cboettig]

 README.md

Quantifying the Detection of Early Warning Signals

This package contains the source code, analysis, and history of my research published in the Proceedings of the Royal Society Interface, *Limits to the Detection of Early Warning Signals for Critical Transitions* with Alan Hastings, May 2012. A preprint under CC-by license is freely [available from my website](#)

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How many proofs that $\pi_n(S^n) = \mathbb{Z}$ are there?

15



Offhand I can think of two ways in classical homotopy theory:

1. Show that $\pi_k(S^n) = 0$ for $k < n$ by deforming a map $S^k \rightarrow S^n$ to be non-surjective, then contracting it away from a point not in its image. Now use the Hurewicz theorem to show $\pi_n(S^n) = H_n(S^n) = \mathbb{Z}$, which is easy to calculate with cellular homology.
2. Use the Freudenthal suspension theorem to induct up from $\pi_1(S^1) = \mathbb{Z}$, which you can prove using (say) the universal covering space $\mathbb{R} \rightarrow S^1$.

What other ways are there to prove $\pi_n(S^n) = \mathbb{Z}$?

[at.algebraic-topology](#) [homotopy-theory](#) [big-list](#)

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edited Feb 8 at 8:53
 Ricardo Andrade

community wiki

4 this should be community wiki – Koushik Feb 8 at 0:43

A very silly option is: run an algorithm which given a simplicial decomposition of the sphere gives you the group. As algorithm exist, this is in principle viable :-)
 – Mariano Suárez-Alvarez Feb 8 at 2:39

3 Am I allowed to say "countably many"? :-)
 – Andrej Bauer Feb 8 at 11:31

1 @Tom: Is there a way to generalize that argument to $n > 2$?
 – Mike Shulman Feb 8 at 16:31

1 The deformation argument in (1) is superfluous. Just calculate π_1 and H_* from the cell decomposition. Then for simply connected spaces, Hurewicz shows that the minimum $i > 0$ for which $H_i \neq 0$ is the same as the minimum $i > 0$ for which $\pi_i \neq 0$, and that the groups coincide for this i .
 – unknown (google) Feb 9 at 21:53

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3. "NFAIS13" @jasonpriem



Todd Carpenter @TAC_NISO 3m
 How do the worlds of messiness and curation combine and work effectively? #nfais13

Details



cindy hill @cindyhill 3m
 What type of data/info could libraries make available to the public & let them explore, prod, experiment w that data? #nfais13

Details



Todd Carpenter @TAC_NISO 4m
 Libraries have data about what has read, what has circulated @dweinberger Too bad these data aren't available or used #altmetrics #nfais13

Details



cindy hill @cindyhill 5m
 Weinberger's challenge to libraries - what if we consider libraries as platforms? What does that change? #nfais13

Details



Matthew Kircher @mkircher 7m
 This #nfais13 keynote or, how I learned to accept and love chaos. Challenging for me as a quantitative type.

Details

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faster, we can publish
web-native science.**

**We can stop
“Publishing” and start
making public.**

**Ok, how do we filter
all this stuff?**

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recommended		
cited	traditional citation	
discussed		
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scholarly		

	scholarly	public
recommended	Faculty of 1000	Mainstream media
cited	traditional citation	Wikipedia
discussed	Scholars' Twitter accounts, blogs	Public Twitter, blogs
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scholarly	PDF Downloads	HTML downloads

ImpactStory.

An open-source, nonprofit startup to gather and share altmetrics.

Heather Piwowar
Jason Priem



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