

Using twitter for science

Lex Nederbragt

February 5, 2019, an email arrived

Dear Dr Grytten,

I am writing from *Genome Biology* as I have recently seen your co-author, Lex Nederbragt, discussing on Twitter your preprint entitled 'Assessing graph-based read mappers ...'

As you may have seen, we recently launched a call for papers for manuscripts describing methods for analyzing graph genomes

We think your preprint would fit very nicely in the collection

We would be very happy for you to submit it to our article collection, guaranteeing peer-review if it is submitted

What is ?

- Short message service ('microblogging')
- Limited to ~~140~~ 280 characters
- Tweets and tweeting
 - 'open access'
- Follow people's tweets - timeline

Credit due: <http://www.slideshare.net/kbradnam/twitter-101-an-introduction-to-twitter#>

Getting started on **twitter** 

Step 1 – get an account

NOT necessary!



Since June 2009,
@lexnederbragt is my twitter 'handle'

Step 2 – find interesting accounts to follow



→
I follow @SandveGeir
and get to see his tweets
in my timeline



Step 3 – be followed



→
@SandveGeir
also follows me
←



Step 4 – start reading and posting tweets

Following helps filter all tweets



Follow

What to do with twitter

Read content

 **Nature News & Comment** 
@NatureNews  

Check out our pick of the best science books to read this week 📖👉



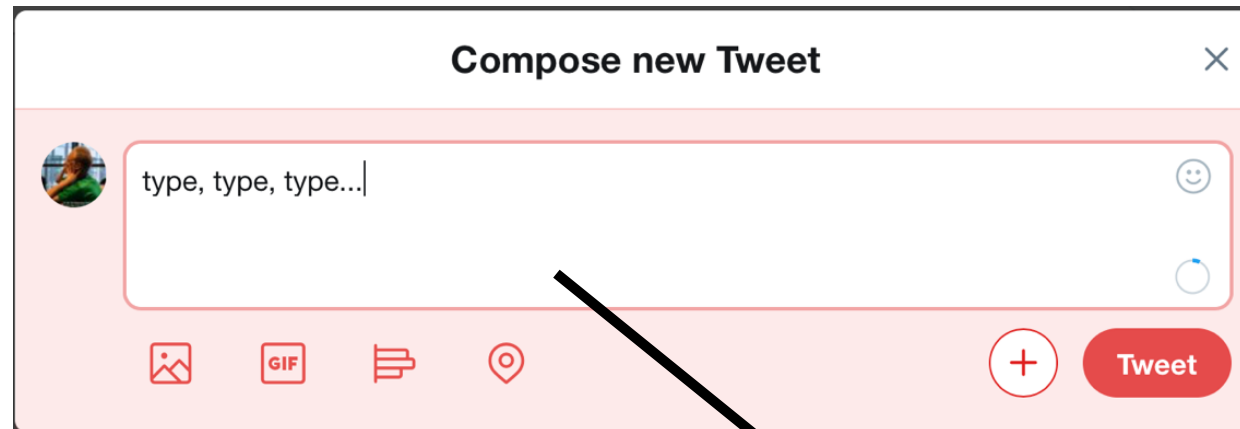
The future of genetic engineering, a treasure trove of insects, and a love letter...
Barbara Kiser reviews five of the week's best science picks.
[nature.com](https://www.nature.com)

Tweets often
contain links



What to do with twitter

Write content



Links you insert are
automatically
shortened

What to do with twitter

Promote your work



Geir Kjetil Sandve
@SandveGeir

Following



Devil in details: the choice of metric may lead to entirely different conclusions in genomic colocalization analysis



Beware the Jaccard: the choice of metric is important and n...

Background The generation and systematic collection of genome-wide data is ever-increasing. This vast amount of data has enabled researchers to study relations between a variety of ge...

[biorxiv.org](https://www.biorxiv.org)

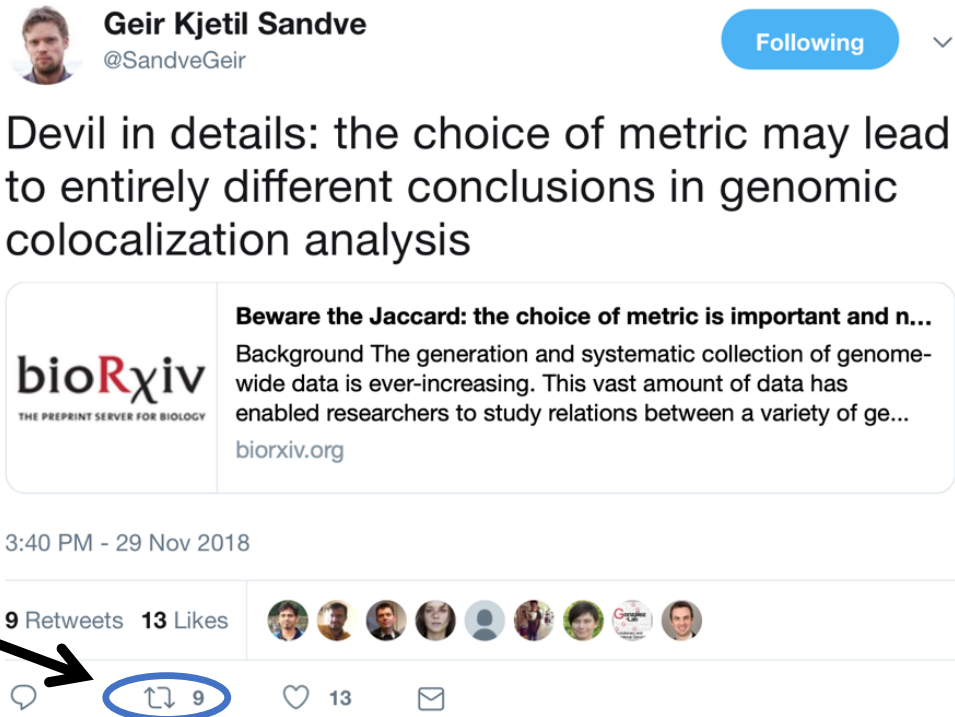
3:40 PM - 29 Nov 2018

9 Retweets 13 Likes



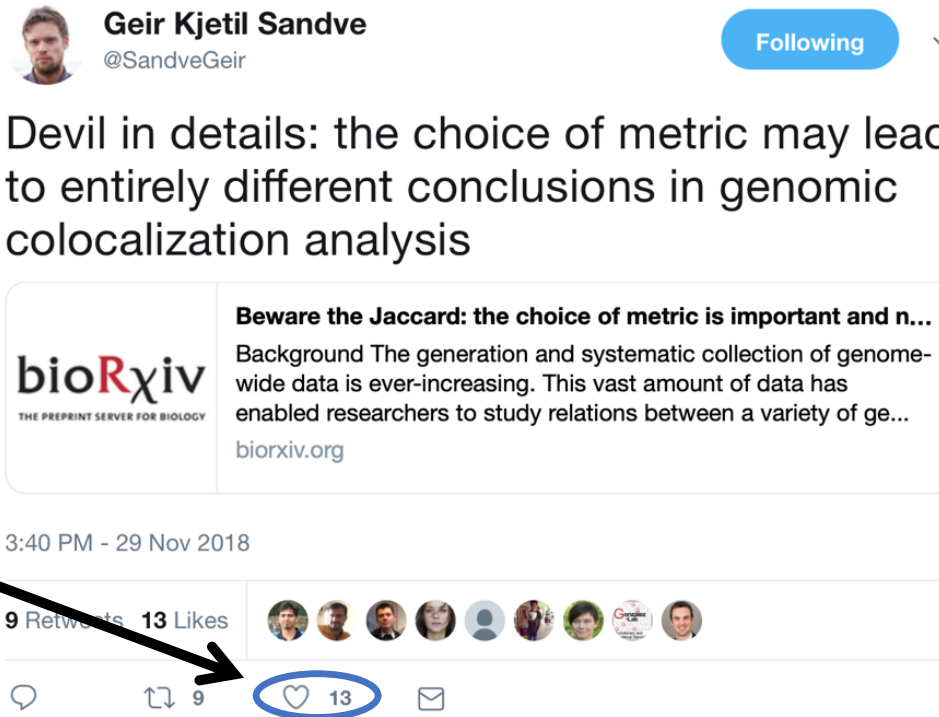
What to do with twitter

Redistribute content



What to do with twitter

Or 'like' it



What to do with twitter

Communicate



Albert Vilella @AlbertVilella · May 4

What are [#GraphGenomes](#) and how do they compare to [#NGS](#) [#Mapping](#) to the linear-based representation of the [#HumanGenome](#) ? See here the highlights of recent preprints on the subject: youtube.com/watch?v=AQ5Mpf...
[#TheOmicsCast](#)

**Vilella
Genomics
Limited**

Vilella Genomics
youtube.com

3

10

24



What to do with twitter

Communicate

Me mentioning
others, who will be
notified about it

Albert Vilella @AlbertVilella · May 4

What are [#GraphGenomes](#) and how do they compare to [#NGS](#) [#Mapping](#) to the linear-based representation of the [#HumanGenome](#) ? See here the highlights of recent preprints on the subject: youtube.com/watch?v=AQ5Mpf... [#TheOmicsCast](#)

Vilella Genomics Limited
youtube.com

3 10 24

Replying to @AlbertVilella

Hey [@IvarGrytten](#) [@kuppern87](#): this is [@AlbertVilella](#) discussing your work on graph mappers! [@SandveGeir](#)

Albert Vilella @AlbertVilella

What are [#GraphGenomes](#) and how do they compare to [#NGS](#) [#Mapping](#) to the linear-based representation of the [#HumanGenome](#) ? See here the highlights of recent preprints on the subject: youtube.com/watch?v=AQ5Mpf... [#TheOmicsCast](#) bit.ly/theomicscast

Show this thread

3:52 PM - 4 May 2019

1 Retweet 1 Like

Ivar Grytten
@IvarGrytten **FOLLOWS YOU**

Follow

PhD student mainly working on graph-based reference genomes

Oslo, Norway

FOLLOWERS 29 FOLLOWING 60

Knut Rand
@kuppern87 **FOLLOWS YOU**

Follow

Statistics PhD student at the University of Oslo

Oslo, Norway

FOLLOWERS 50 FOLLOWING 98

What to do with twitter

Follow conferences

hashtag



What to do with twitter

Follow conferences



What twitter is NOT

Facebook

lengthy discussions

for old news

Who is on twitter

News services

 **The New York Times** 

@nytimes

Where the Conversation Begins. Follow for breaking news, NYTimes.com home page articles, special features and RTs of our journalists.

New York, NY · <http://www.nytimes.com/>

Followed by [Ion Torrent](#) , [Life Technologies](#) , [Illumina](#) and 3 others.

82,609 TWEETS	629 FOLLOWING	4,962,004 FOLLOWERS
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 **Aftenposten**

@Aftenposten

Nyhetsfeed fra Aftenposten. Kontaktinfo: Tlf: 02286, e-post: 2286@aftenposten.no eller SMS/MMS til 2286.

Oslo, Norway · <http://www.ap.no>

Followed by [Ståle Nygård](#) , [Universitetet i Oslo](#) , [forskning.no](#) and 2 others.

38,791 TWEETS	71 FOLLOWING	17,468 FOLLOWERS
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 **CNN Breaking News** 

@cnnbrk

CNN.com is among the world's leaders in online news and information delivery.

Everywhere · <http://cnn.com/>

Followed by [Last Gen Sequencing](#) , [Sébastien Boisvert](#) , [forskning.no](#) and 4 others.

16,991 TWEETS	65 FOLLOWING	7,297,505 FOLLOWERS
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Who is on twitter

Science journals

**Nature News&Comment**  
@NatureNews

*The latest science news and opinion from @NatureMagazine.
Winner Best Twitter, Online Media Awards 2011, and Shorty
Award for science, 2012.*

London · <http://www.nature.com/news>

Followed by [Dale Yuzuki](#) , [Nature Magazine](#) , [Håvard Kauserud](#) and
[10+ others](#).

14,853 TWEETS	2,754 FOLLOWING	350,075 FOLLOWERS
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**Science Magazine** 
@sciencemagazine

*The world's leading outlet for scientific news, commentary, and
cutting-edge research.*

Washington, DC & Cambridge, UK · <http://www.sciencemag.org>

Followed by [Håvard Kauserud](#) , [Protist 2012](#) , [Last Gen Sequencing](#)
and [10+ others](#).

6,094 TWEETS	346 FOLLOWING	50,258 FOLLOWERS
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**forskning.no** 
@forskningno

*Nina Kristiansen, redaktør i forskning.no - nettavis om norsk og
internasjonal forskning.*

Oslo, Norway · <http://forskning.no>

Followed by [Håvard Kauserud](#) , [Grønt UiO](#) , [Protist 2012](#) and [9
others](#).

3,454 TWEETS	493 FOLLOWING	7,211 FOLLOWERS
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Who is on twitter

Your colleagues



Twitter profile of Geir Kjetil Sandve (@SandveGeir). The profile features a blue header, a circular profile picture of a man with a beard, and a bio. The statistics show 16 Tweets, 33 Following, and 69 Followers. A 'Following' button is visible.

Geir Kjetil Sandve
@SandveGeir Follows you

Tweets **16** Following **33** Followers **69** **Following**



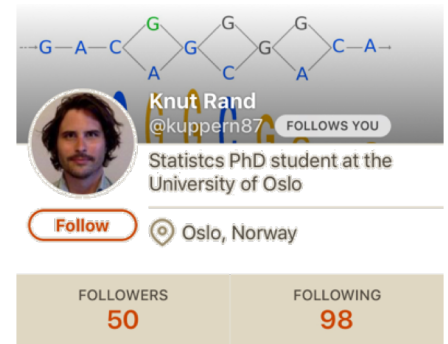
Twitter profile of Ivar Grytten (@IvarGrytten). The profile features a grey header, a circular profile picture of a person, and a bio. The statistics show 29 Followers and 60 Following. A 'Follow' button is visible.

Ivar Grytten
@IvarGrytten **FOLLOWS YOU**

PhD student mainly working on graph-based reference genomes

Oslo, Norway

FOLLOWERS **29** FOLLOWING **60**



Twitter profile of Knut Rand (@kuppern87). The profile features a grey header with a DNA sequence diagram, a circular profile picture of a man, and a bio. The statistics show 50 Followers and 98 Following. A 'Follow' button is visible.

Knut Rand
@kuppern87 **FOLLOWS YOU**

Statistics PhD student at the University of Oslo

Oslo, Norway

FOLLOWERS **50** FOLLOWING **98**

And more...

Who is on twitter

Your work



IFI, UiO
@UniOslo_IFI

Institutt for informatikk har et bredt studietilbud med 800 bachelorstudenter, 450 masterstudenter og 220 PhD-studenter.

📍 Gaustadalléen, Oslo, Norway 🔗 mn.uio.no/ifi/ 📅 Joined June 2013

5 Following 288 Followers

Follow



Universitetet i Oslo
@UniOslo

Universitetet i Oslo, Norges eldste og beste. University of Oslo. Følg oss på: facebook.com/UniOslo

📍 Oslo, Norway 🔗 uio.no 📅 Joined May 2009

2,242 Following 23.7K Followers

Follow

What do you find on twitter

News – fast!



Janis Krums
@jkrums



<http://twitpic.com/135xa> - There's a plane in the Hudson. I'm on the ferry going to pick up the people. Crazy.

↩ Reply ↻ Retweet ★ Favorite 📁 Pocket

50+
RETWEETS

50+
FAVORITES

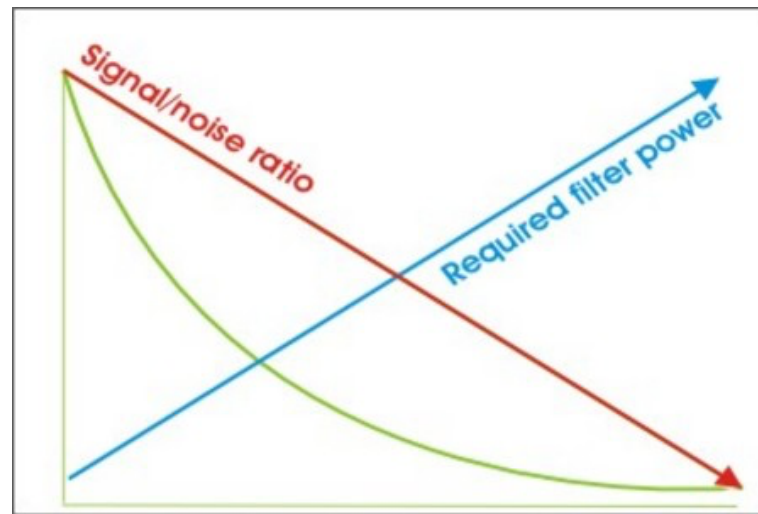


9:36 PM - 15 Jan 09 via TwitPic · Embed this Tweet



What do you find on twitter

Lot's of noise



http://longtail.typepad.com/the_long_tail/2005/05/isnt_the_long_t.html

What do you find on twitter

Science:

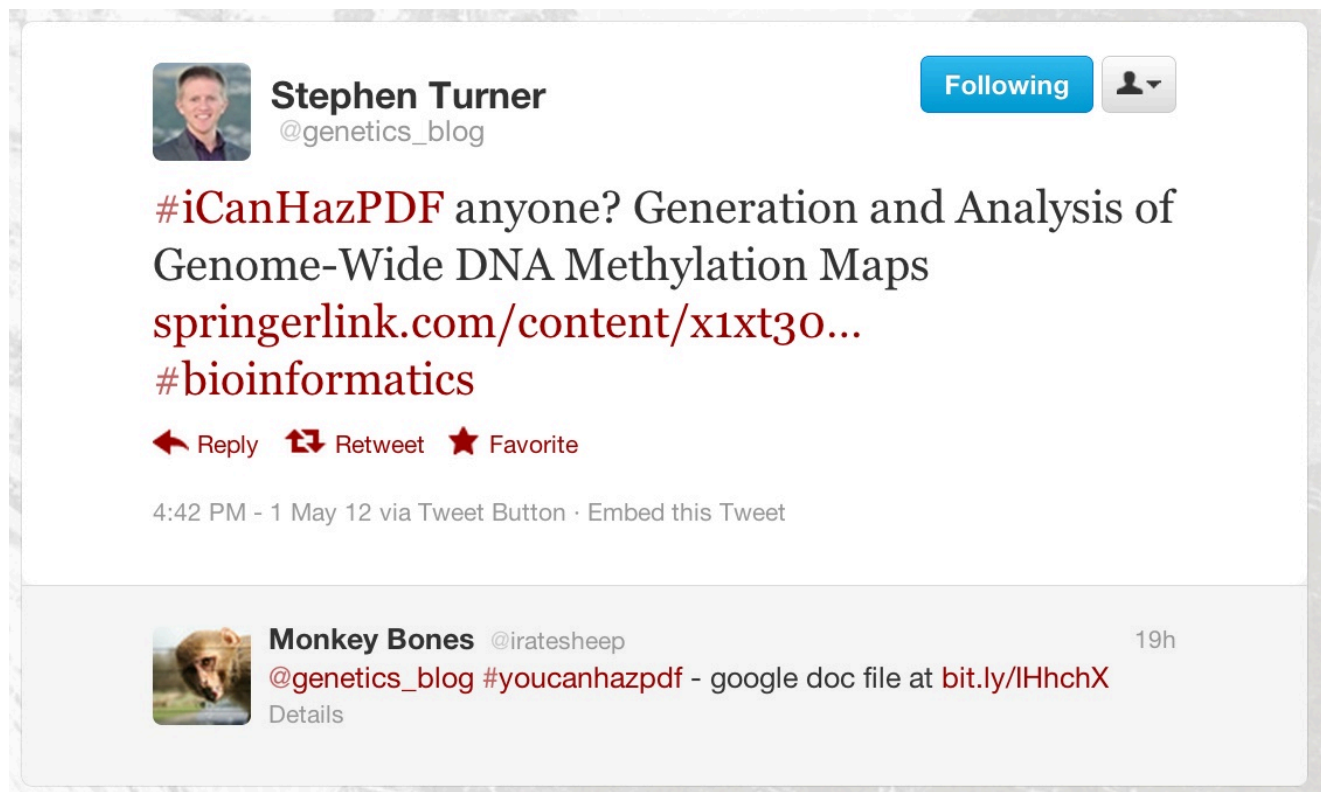
science news

new scientific articles

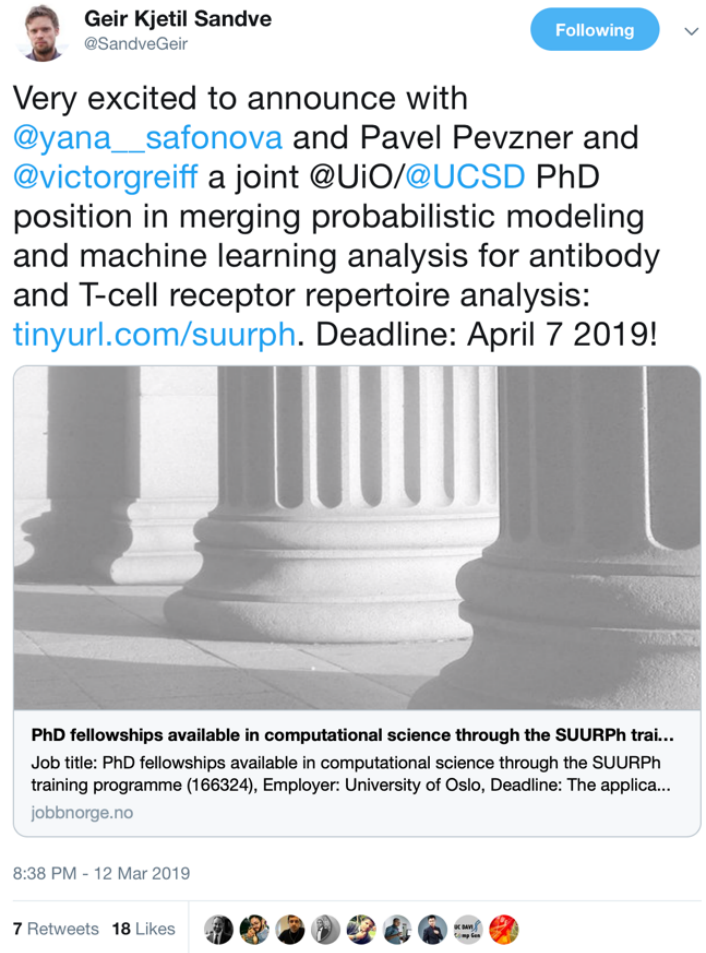
new blog posts

conference tweeting

What do you find on twitter



What do you find on twitter



Geir Kjetil Sandve
@SandveGeir

Following

Very excited to announce with [@yana__safonova](#) and Pavel Pevzner and [@victorgreiff](#) a joint @UiO/@UCSD PhD position in merging probabilistic modeling and machine learning analysis for antibody and T-cell receptor repertoire analysis: tinyurl.com/suurph. Deadline: April 7 2019!

PhD fellowships available in computational science through the SUURPh trai...
Job title: PhD fellowships available in computational science through the SUURPh training programme (166324), Employer: University of Oslo, Deadline: The applica...
jobbnorge.no

8:38 PM - 12 Mar 2019

7 Retweets 18 Likes

What do you find on twitter



Torbjørn Rognes

@torognes

Following



We have made VSEARCH more user-friendly, try our latest release! Version 2.13.0.



torognes/vsearch

Versatile open-source tool for metagenomics. Contribute to torognes/vsearch development by creating an account on GitHub.
github.com

12:14 PM - 23 Apr 2019

12 Retweets 21 Likes




 12

 21



What do you find on twitter


 **Michael White** @MWClimateSci [Follow](#)


I've handled the review of > 1000 papers at [@nature](#). Over time, you notice aspects of presentation on which reviewers tend to comment. In the interests of minimizing hassles during review, I offer the following suggestions (a bit targeted to climate papers).

12:34 AM - 30 Mar 2019


4,305 Retweets 9,726 Likes


100 4.3K 9.7K


 Tweet your reply


 **Michael White** @MWClimateSci · Mar 30
Double space: make it easy on the reader (and editor) by double spacing the entire text, including references and figure legends.


Twitter thread


 **Michael White** @MWClimateSci · Mar 30
Double space: make it easy on the reader (and editor) by double spacing the entire text, including references and figure legends.
18 24 298


 **Michael White** @MWClimateSci · Mar 30
Use big fonts: again, make the paper easy to read. Tracking 30 words across one line in a tiny font is hard, especially if you are reading for hours at a time. Instead, use a font that provides about 12-15 words per line of text.
2 19 234


 **Michael White** @MWClimateSci · Mar 30
Use continuous line numbers: reviewers like to refer to specific line numbers and frequently comment on their absence.
4 24 288



 **Michael White** @MWClimateSci · Mar 30
Avoid subjective wording: reviewers will often object to words/phrases like "unprecedented", "paradigm shift", "amazing", "dramatic", and "remarkable". Best to present your results, and let the readers make up their minds about the magnitude of the advance.
7 79 708

 **Michael White** @MWClimateSci · Mar 30
Avoid acronyms: a rule of thumb might be to use an acronym if the term is used at least five times. Do use common acronyms, like SST, CDW, NPP, AMOC. Avoid, if at all possible, inventing acronyms that are unique to your paper.
11 55 524

 **Michael White** @MWClimateSci · Mar 30
Avoid words like "influence": instead, state the direction of the effect you're describing. So, instead of hypothetically writing "Precipitation influences net primary production" write "Precipitation increases net primary production". Better yet, use numbers.
2 63 595

 **Michael White** @MWClimateSci · Mar 30
Avoid using "significant" to mean "big" or "major": too easily confused with the results of a statistical test. Even if you are reporting the results of a statistical test, it's better to report the numerical results instead. In fact, best to avoid "significantly" entirely.
6 72 702

 **Michael White** @MWClimateSci · Mar 30
Define uncertainties: probably half of initial submissions do not fully define the meaning of error bars and/or uncertainties. 95% confidence intervals, ranges, 2 sigma? Is the box plot showing the interquartile range, or something else? Tell us, in the figure legend.
1 34 400

 **Michael White** @MWClimateSci · Mar 30
Consider accessibility: try to use colors in a way that won't create problems for the many readers with some form of color blindness (for a good discussion and design suggestions see [somersault1824.com/tips-for-design](#) ...).
 **Tips for designing scientific figures...**
somersault1824.com
13 143 794

What do you find on twitter



Follow



Slik påvirker arbeidet på jernbanen
togtrafikken rundt Oslo i sommer:
bit.ly/2JsNBEb

 Translate Tweet

9:22 AM - 16 May 2019

What do I find on twitter

finding out about new articles

finding out about new blog posts

following a conference without being there

news items relevant for my research

networking

announcing new blog posts

Why do I use twitter

Building reputation

Getting updates

Discuss science

Get help

Cool stuff that happened



A screenshot of a Twitter profile for Nick Loman. The profile picture is a circular headshot of a man with short brown hair, smiling. The background of the header is a solid grey-blue. Below the profile picture, the name 'Nick Loman' is displayed in bold, followed by the handle '@pathogenomenick' and the text 'Follows you'. To the right of the profile picture, statistics are listed: 'Tweets 56.9K', 'Following 1,613', 'Followers 24.3K', 'Likes 17.9K', and 'Lists 1'. Below these statistics, there are three tabs: 'Tweets', 'Tweets & replies', and 'Media'. The 'Tweets' tab is selected and highlighted. Below the tabs, a 'Pinned Tweet' is indicated with a pin icon.

Tweets	Following	Followers	Likes	Lists
56.9K	1,613	24.3K	17.9K	1

Nick Loman
@pathogenomenick Follows you

Tweets Tweets & replies Media

📌 Pinned Tweet

Cool stuff that happened



NORWEGIAN SEQUENCING CENTRE

@norseqcenter

NSC course: High Through-put Sequencing: technology basics, applications and bioinformatic analysis (Oct. 25-27 2011)

Wednesday - Thursday Oct 26th-27th 9:00-17:00 *De novo* genome assembly

Teachers

Lex Nederbragt (NSC, CEES - Dept. of Biology, Univ. of Oslo, <http://flavors.me/flxlex>), Nick Loman (School of Biosciences, University of Birmingham, United Kingdom, <http://pathogenomics.bham.ac.uk/staff/nloman.html>), Karin Lagesen (CEES), Ave Tooming klunderud (NSC and CEES), Trine Ballestad Rounge (CEES, Dept. of Biology, Univ. of Oslo)

Cool stuff that happened



[Home](#) » [News](#) » [In Sequence](#)

454 Customers Report Mixed Results on FLX+; Short Reads and Low Throughput Top Problems

April 17, 2012

By [Monica Heger](#)

Nearly a year after Roche's 454 Life Sciences launched the GS FLX+, which promised modal read lengths of 700 base pairs with the longest reads reaching more than 1,000 base pairs, a number of customers are still experiencing problems with the system.

"On paper it's nice, but it takes a long time to get to work," said [Lex Nederbragt](#), who coordinates sequencing on the 454 and Pacific Biosciences systems at the Norwegian Sequencing Center in Oslo. Since purchasing the upgrade in August, he said his lab has consistently been having problems getting good runs, although he said they are slowly improving.

 [RSS Feed](#)

 [Subscribe to In Sequence](#)

Not so cool stuff that might happen

Over-following

Distracting

Addictive

Politics

Harassment

March 30, 2019, an email arrived

March 30, 2019, an email arrived

Kunne du tenkt deg å holde en innføring i Twitter på et tirsdagsmøte?

Jeg kunne godt begynt med en 1-minutt om min totale forvirring

Mer konkret er jeg nysgjerrig på blant annet følgende:

...

..Geir Kjetil

Geir Kjetil's questions

- Apps? Web?



Tweetbot for iOS/Mac

Geir Kjetil's questions

- How to keep track of threads

Geir Kjetil's questions

- Splitting one's feed into themes?

Twitter lists

Geir Kjetil's questions

- How to contribute to a discussion (customs, referencing, tags)

Reply (by default: reply all)

Geir Kjetil's questions

- How to refer to other people
- How to avoid being seen as spamming others?

Add '@username', be professional

Geir Kjetil's questions

- How to discover relevant content, add comments?
- Who gets this content in their feed?

Follow the right people, check the right hashtags
All followers and those mentioned see content

Geir Kjetil's questions

- Can one be critical?

YES, be professional and constructive

Geir Kjetil's questions

- How to work with the 280 character limitation?

Practice!

Links count only 23 characters

Mentions don't count, media don't count

Geir Kjetil's questions

- What is a good mindset for a ‘tweeter’?

Build an online reputation

- Be professional
- Be to the point
- Be constructive
 - Share

My 2nd most popular tweet



Lex Nederbragt
@lexnederbragt

Følg

“The Genome Reference Consortium has decided to indefinitely postpone the release of the next coordinate-changing assembly GRCh39/hg39, instead opting for additional patches to GRCh38/hg38”

[@GenomeBrowser](http://genome.ucsc.edu/blog/patches/@GenomeBrowser) [@GenomeRef](http://genome.ucsc.edu/blog/patches/@GenomeRef)

Assembly	Year
NCBI34/hg16	2003
NCBI35/hg17	2004
NCBI36/hg18	2006
GRCh37/hg19	2009
GRCh38/hg38	2014

22:58 - 25. feb. 2019

109 retweets 75 liker



6

109

75

Should the Centre for Bioinformatics be on Twitter?