

# **F1000***Research*

Tackling some of the trials and tribulations of a researcher

# Imagine ...

- You've been working hard in the lab.
- You now have some exciting results.
- You want to share them with others.
- You want to make sure you get there first.

# You submit.

- Silence...
- After several months, you finally get a response.

**The referees said 'No!'**

# OK, next journal.

- Now you spend another couple of weeks:
  - › Deciphering the new author instructions.
  - › Reformatting the article,
  - › ...the references,
  - › ...the fonts and spacing,
  - › ...the cover letter.

# You finally send it in.

- Some more months go by...  
**The journal will accept it! But...**
- ...you need to do these extra expts
- ...and re-write this whole section

**You read the referee reports –  
you're fairly sure you know who the  
referees were.**

# You resolve to do the work.

- It takes months to make the changes.
- You re-submit.
- Again, more months pass by...
- ...you chase,
- ...and chase.

**And guess what?**

# It's now been over a year.

- You're reading one day and you suddenly see ...

**Your main competitor just published the very same findings in another journal!**

# This happens a lot.

- Most researchers can tell you this same story.
- Slow, secretive publishing makes no sense.
- It's bad for science.
- It damages careers.

**It's time for a change.**



# *F1000* **Research**

- Immediate publication (**within one week**).
- Completely transparent peer review, post publication (**averaging two referee responses within 10 days**).

# *F1000***Research:**

- Covers biology and medicine.
- Uses Gold OA.
- Uses CC-BY (text) and CC0 (data).
- Has extensive and prestigious Advisory Panel and Editorial Board.
- Formal launch is January 2013.

# Refereeing Process

## Referee Responses 3

- Rob Basner**  
*Ref Report* 15 November 2012 (v1)
- Sairam Parthasarathy**  
Approved with Reservations:  
12 November 2012 (v1)  
*Ref Report* 13 November 2012 (v1)
- Diederik Nieuwenhuijs**  
Approved: 11 November 2012 (v1)  
*Ref Report* 12 November 2012 (v1)

- All open and signed.
- Focus is on whether the work is scientifically sound.

# Citation and Indexing

**Pellucid-like keratoconus** [v1; ref status: *awaiting peer review*, <http://f1000r.es/TLhefH>]

**Correlating data from different sensors to increase the positive predictive value of alarms: an empiric assessment** [v1; ref status: approved 1, <http://f1000r.es/RKkXdB>]

**Respiratory events in patients undergoing laparoscopic gastric bypass surgery** [v1; ref status: Indexed, <http://f1000r.es/YYXoAZ>]

Articles indexed once they receive two positive reviews.

# Now imagine...

- You're reading your competitor's article.
- Some of the results are surprising.
- You are not sure you believe them.
- You suspect the analysis has been done incorrectly.

# So...

- You check for supplementary files.
- You try to work out what's what.
- You find some relevant files but they don't make any sense; you have lots of questions.
- Some of the key files simply aren't there.
- You contact the author.

# SILENCE!

In this digital age, why should readers have to simply assume that the authors created the data and conducted the analysis correctly?

# F1000Research


according to Broad Institute best-practice guidelines\*\* to eliminate false positive calls and produce the final VCF.

**Son exome files** 587 views 2 shares 0 downloads

Show all items (7) Showing: Son's Aligned Bam File.bam

FCB021RACXX:4:1208:7911:79502#CAGATCAT	99	1	11883	0
FCB021RACXX:4:1208:7911:79502#CAGATCAT	147	1	11941	0
FCB044UACXX:4:2205:3896:171755#CAGATCAT	99	1	12059	0
FCB021RACXX:4:1205:8439:53145#CAGATCAT	99	1	12154	0
FCB044UACXX:4:1205:1748:199749#CAGATCAT	163	1	12165	0
FCB044UACXX:4:2103:5744:184901#CAGATCAT	99	1	12167	0
FCB021RACXX:4:1205:8439:53145#CAGATCAT	147	1	12167	0
FCB044UACXX:4:1205:1748:199749#CAGATCAT	83	1	12203	0
FCB044UACXX:4:2205:3896:171755#CAGATCAT	147	1	12212	0
FCB044UACXX:4:2103:5744:184901#CAGATCAT	147	1	12274	0
FCB021RACXX:4:1107:6633:165696#CAGATCAT	99	1	12275	0
FCB021RACXX:4:1107:6633:165696#CAGATCAT	147	1	12313	0

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The Fastq files represent the raw exome data for the son. The BAM files are derived from the fastq files by aligning the reads using a Burrows-Wheeler Aligner (BWA). The BAM file (.bam) is the binary version

- Full, mandatory data deposition and sharing.
- To date, over **100** articles; **100%** success rate for getting the data.



# Your postdoc comes in.

- She's been trying a particular experiment for months now.
- It simply doesn't work.
- She's tried everything you both can think of.

# She's just been to a conference.

- She presented her work as a poster.
- And explained the results to attendees...
- ...and someone told her he'd done the same thing and it didn't work for him either.

**Now, why couldn't we have known that before?**

# *F1000***Research**

Accepts all scientifically sound articles, including:

- Negative/null results
- Single findings
- Case reports
- Replication studies

# Summary

*F1000Research* tackles four big issues:

- Speed of publication.
- Peer review.
- Data sharing.
- Sharing of all scientifically sound science.

# Time's Up!



## About the speaker:

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