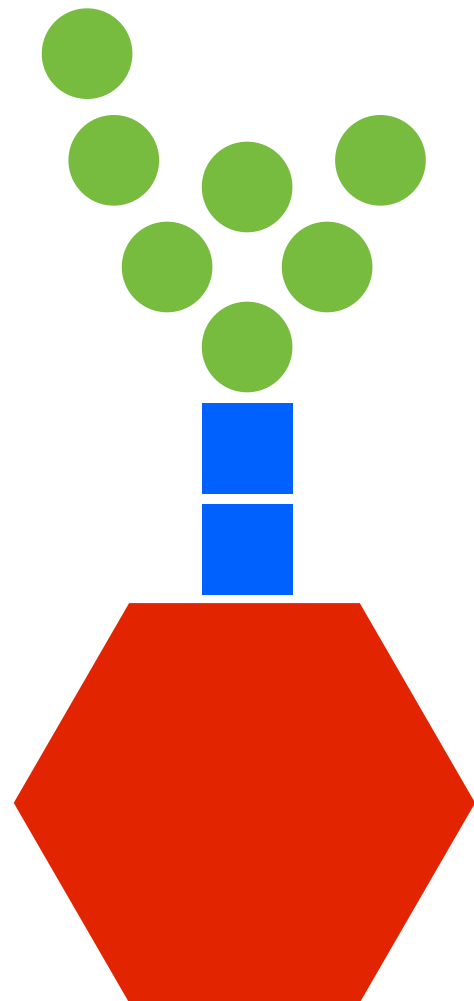


NGLY1

Bench to Bedside



Matt Might, Ph.D.

Associate Professor

Computer Science

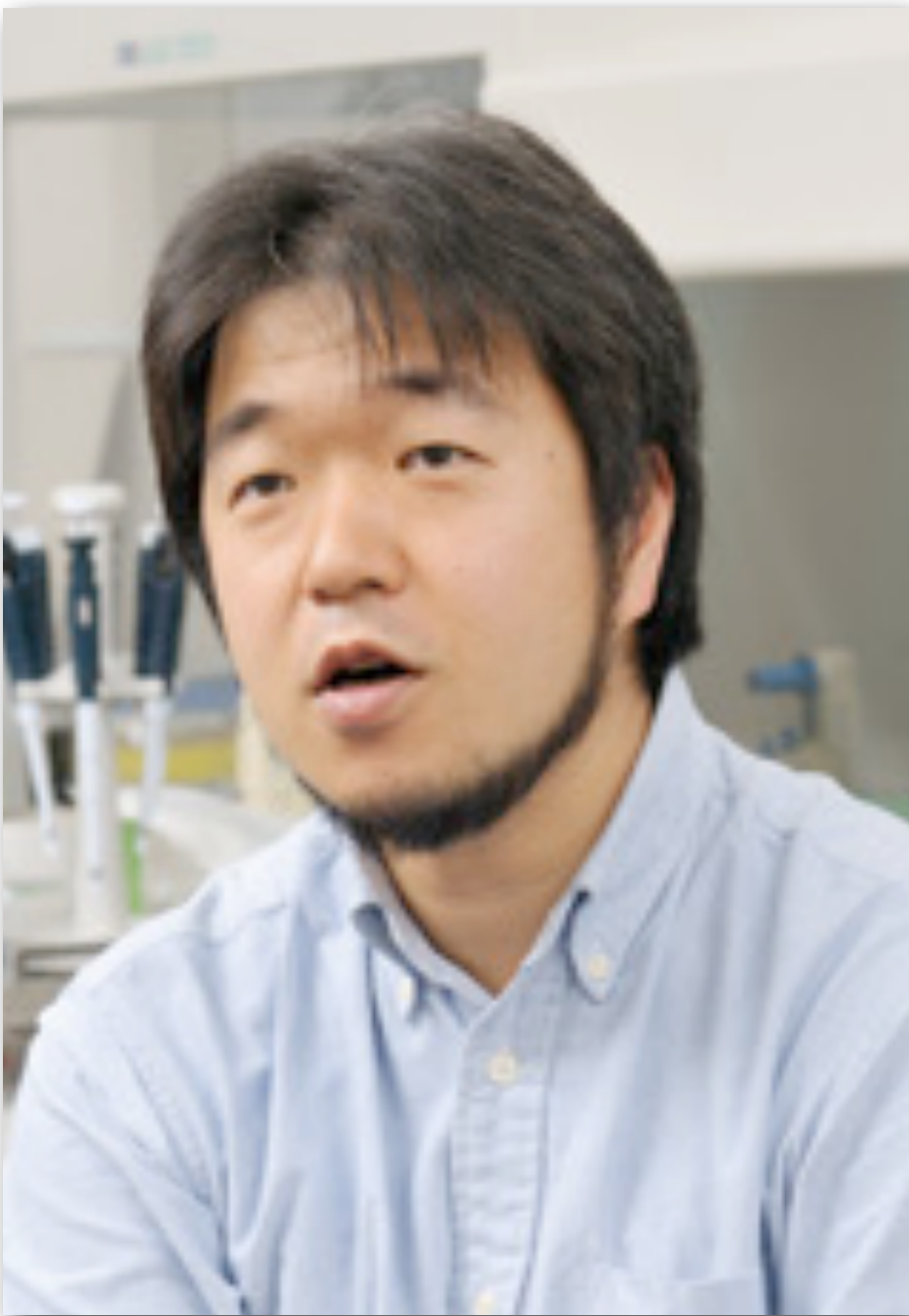
University of Utah

matt.might.net

[@mattmight](https://twitter.com/mattmight)



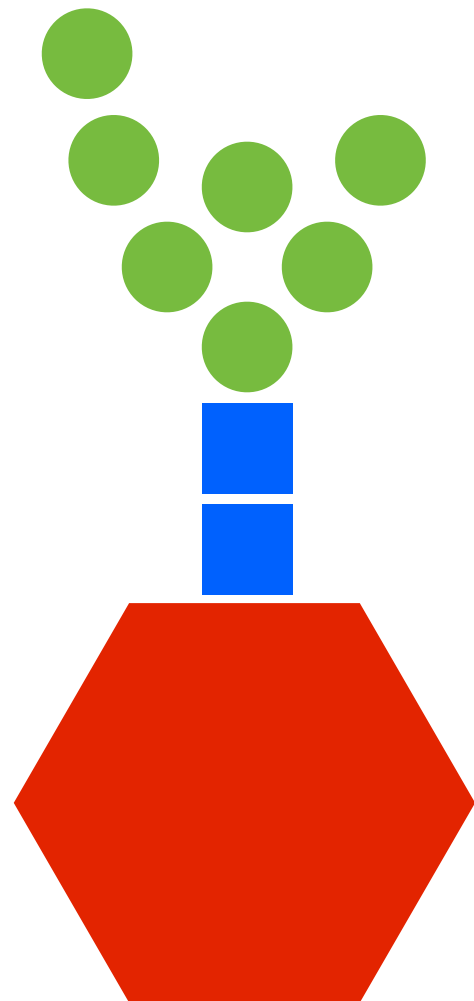
Real heroes don't wear capes.



Real heroes do glycobiology.

NGLY1

Bench to Bedside



Matt Might, Ph.D.

Associate Professor

Computer Science

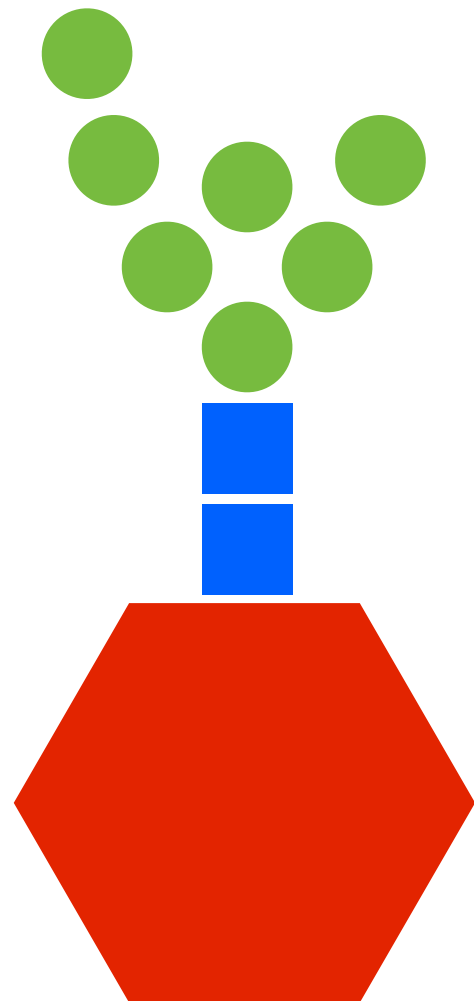
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NGLY1

Bench to Bedside

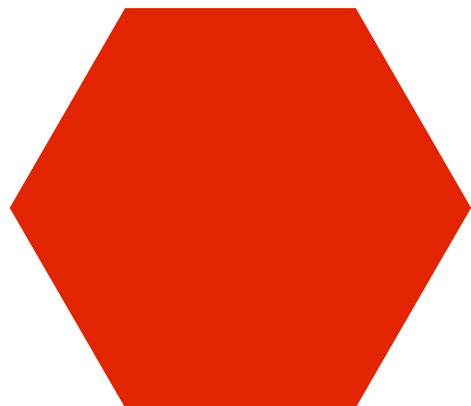
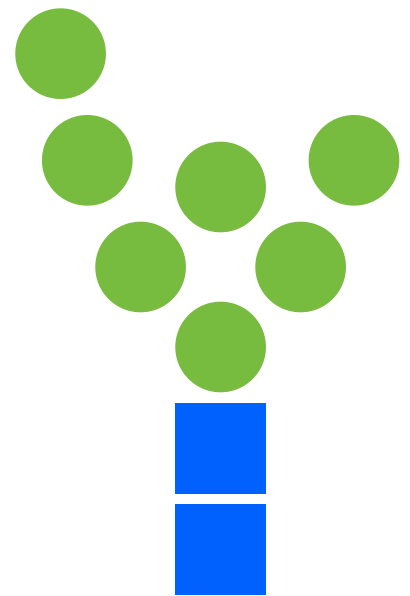


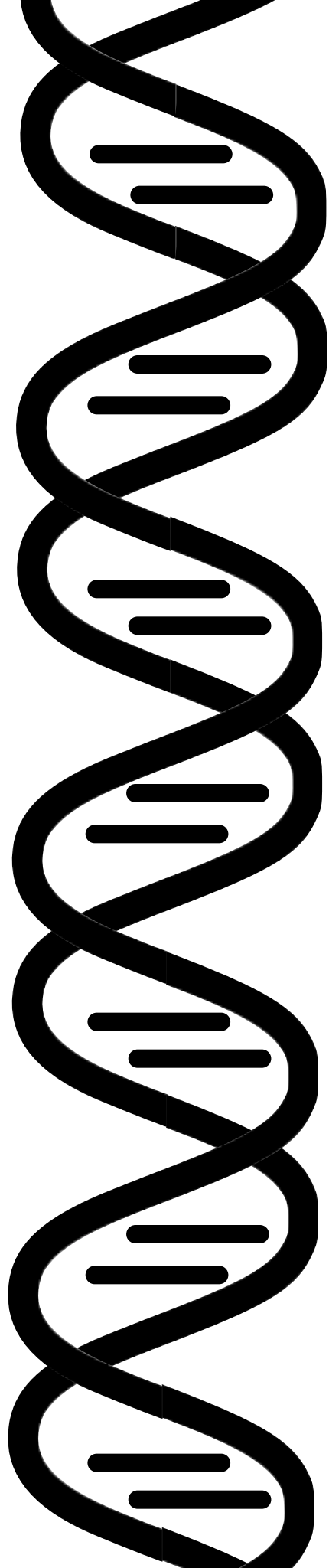
Matt Might, Dad

NGLY1.org

Bench to Bedside to Bench

Matt Might, Dad



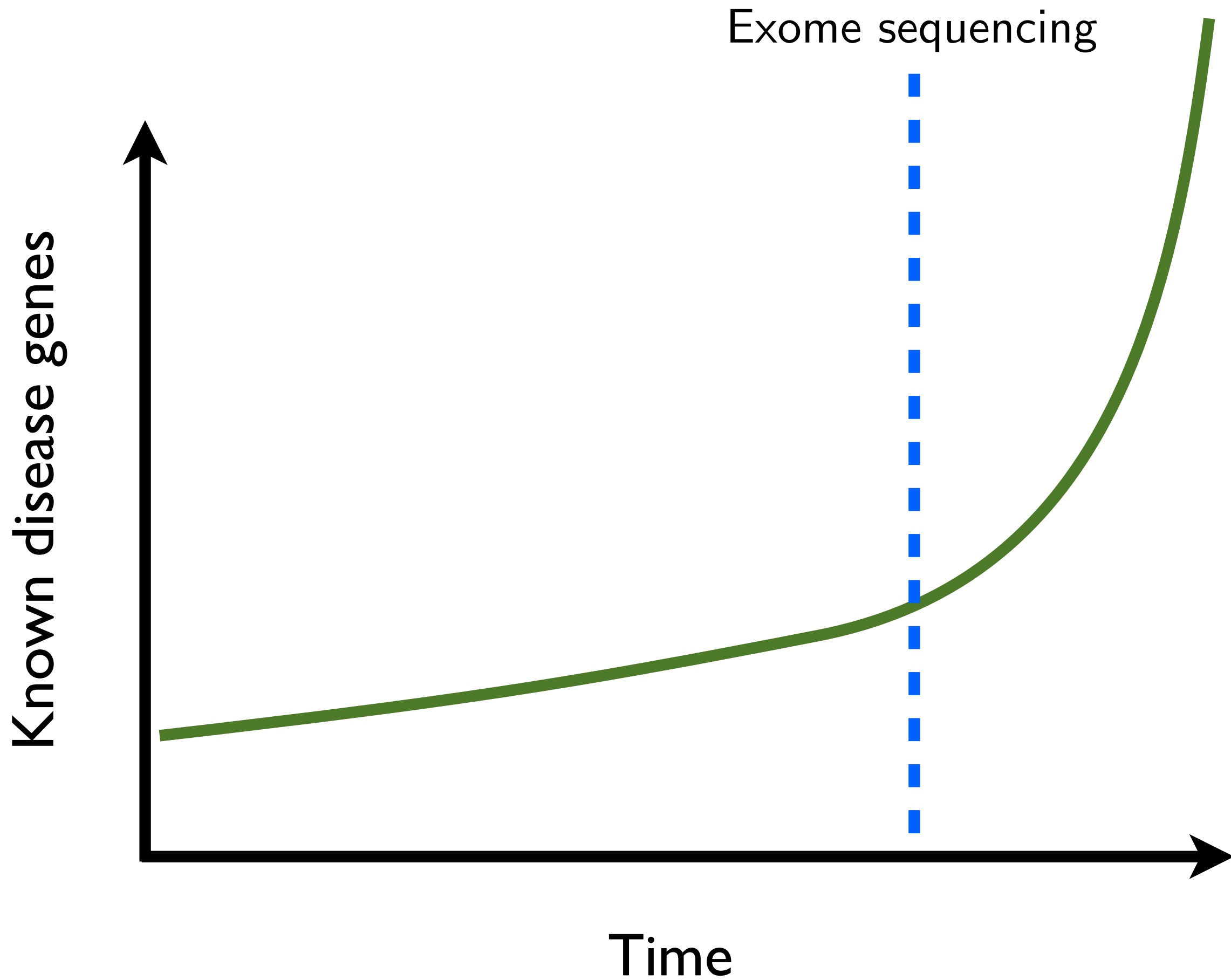


+



Exome sequencing

Exome sequencing































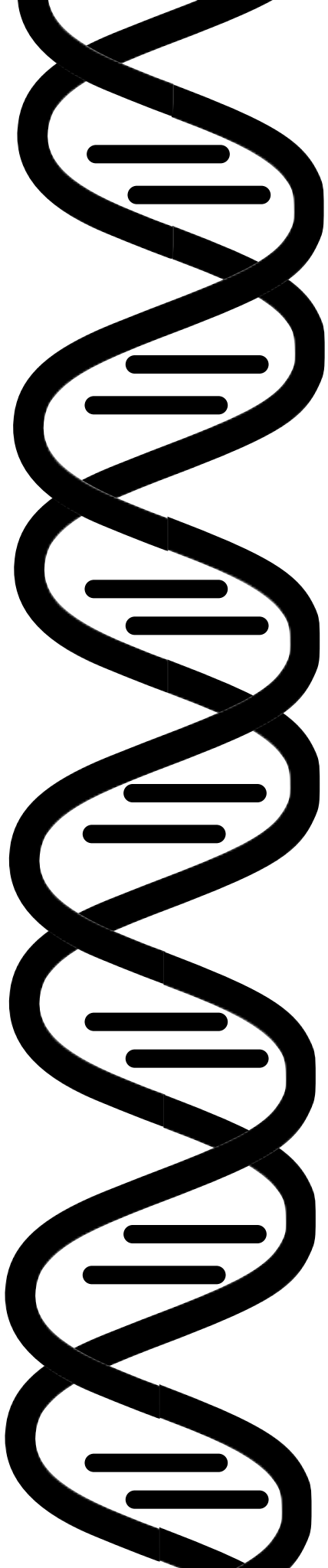


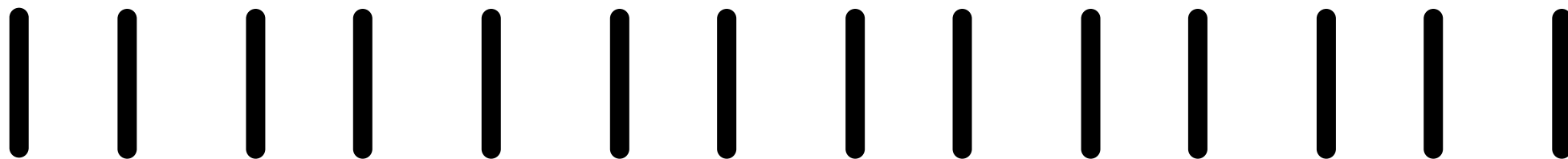




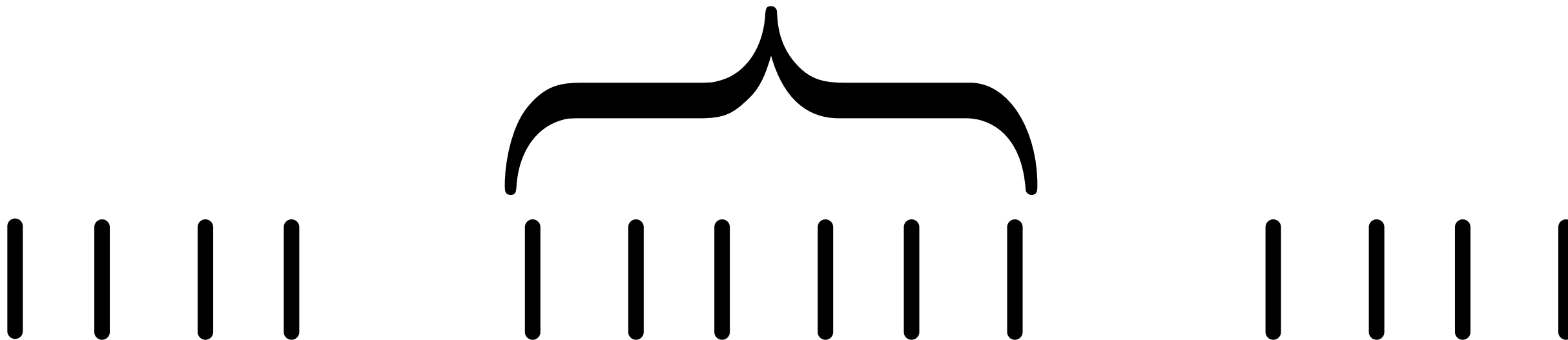
4.5

Duke
UNIVERSITY

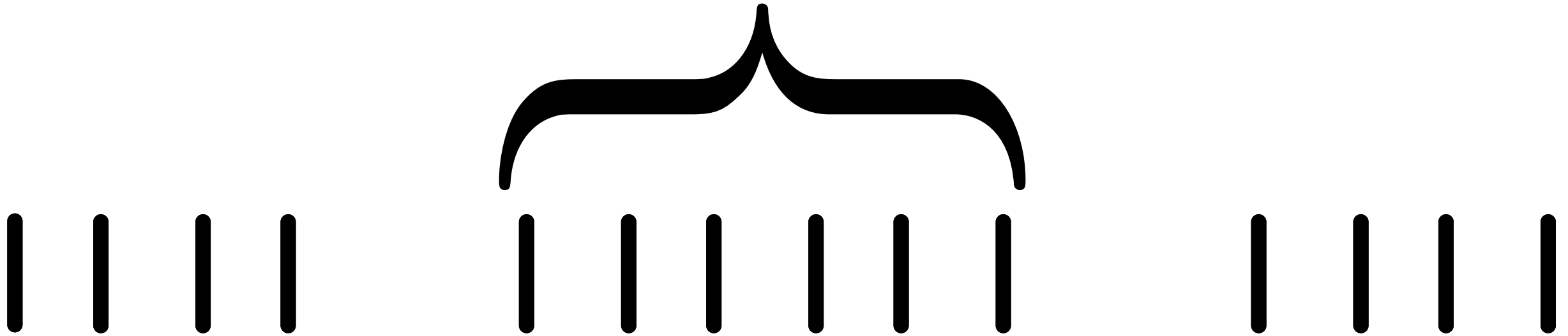




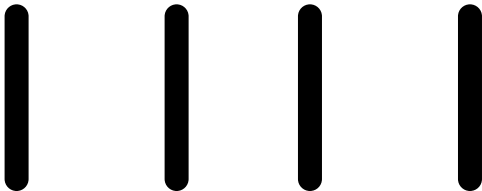
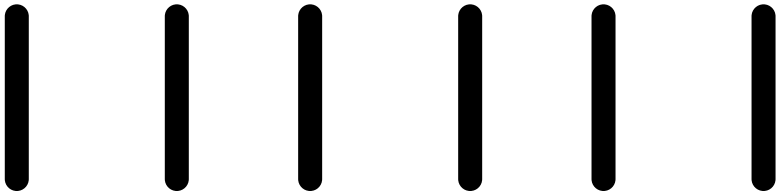
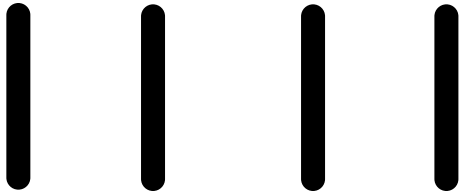
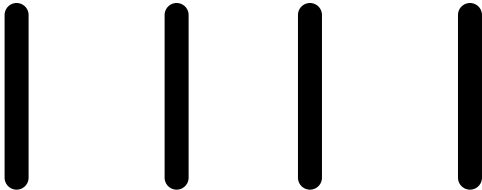
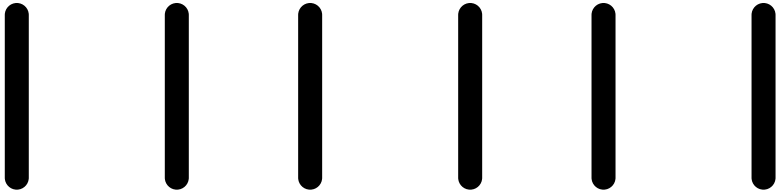
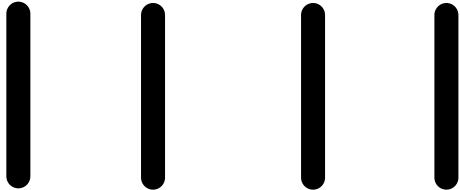
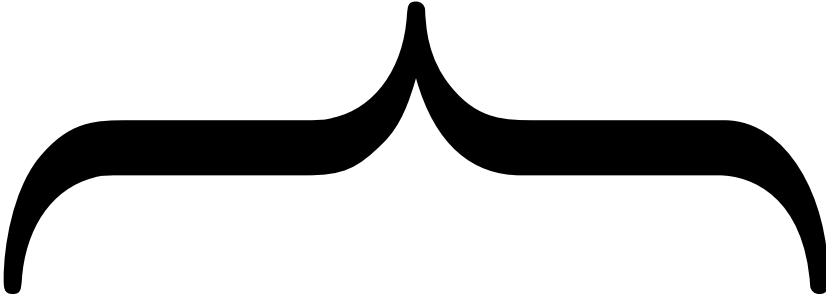
NGLY1



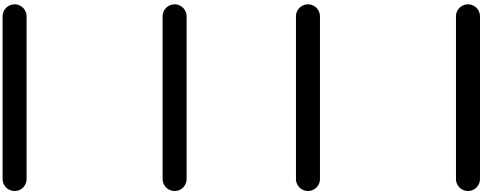
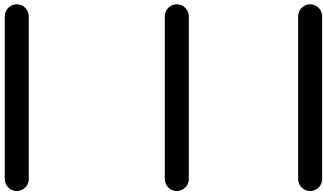
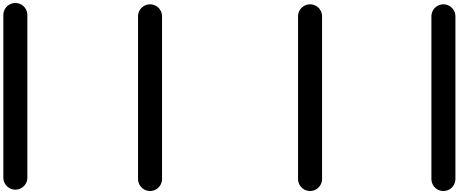
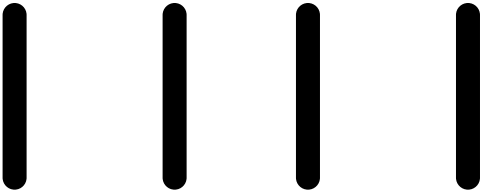
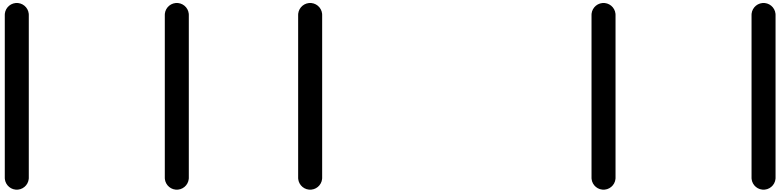
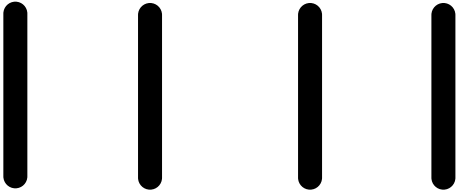
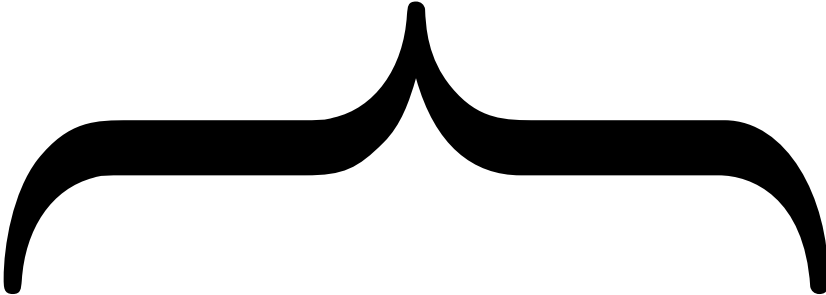
NGLY1



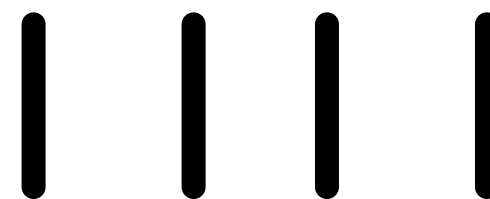
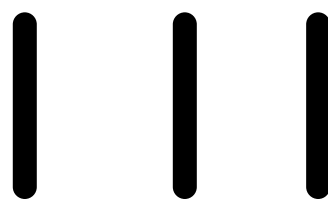
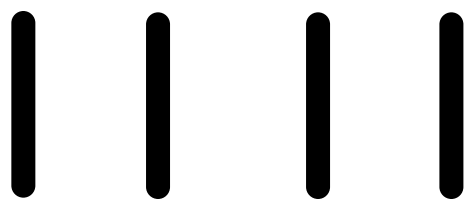
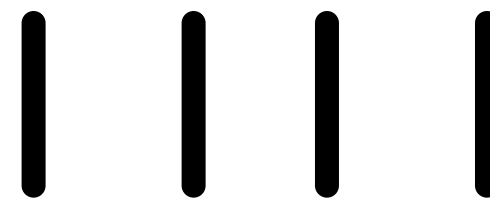
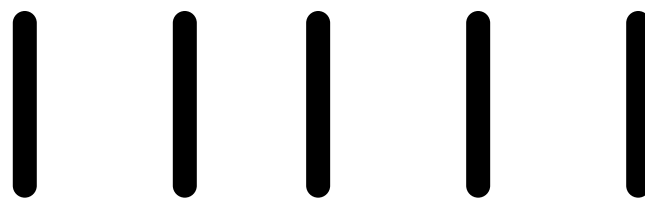
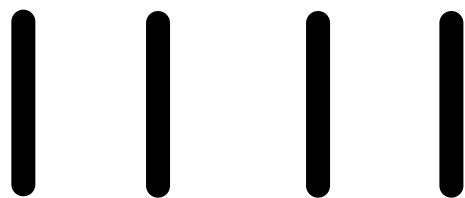
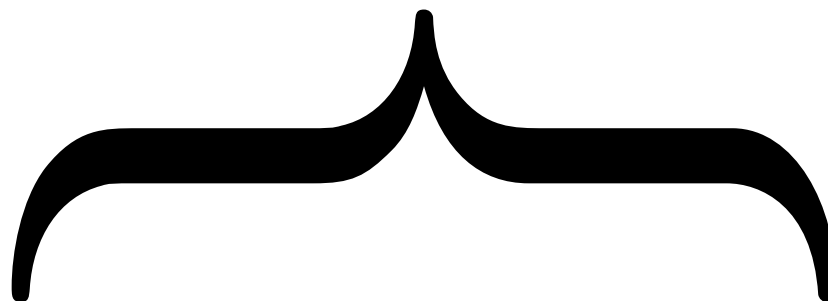
NGLY1



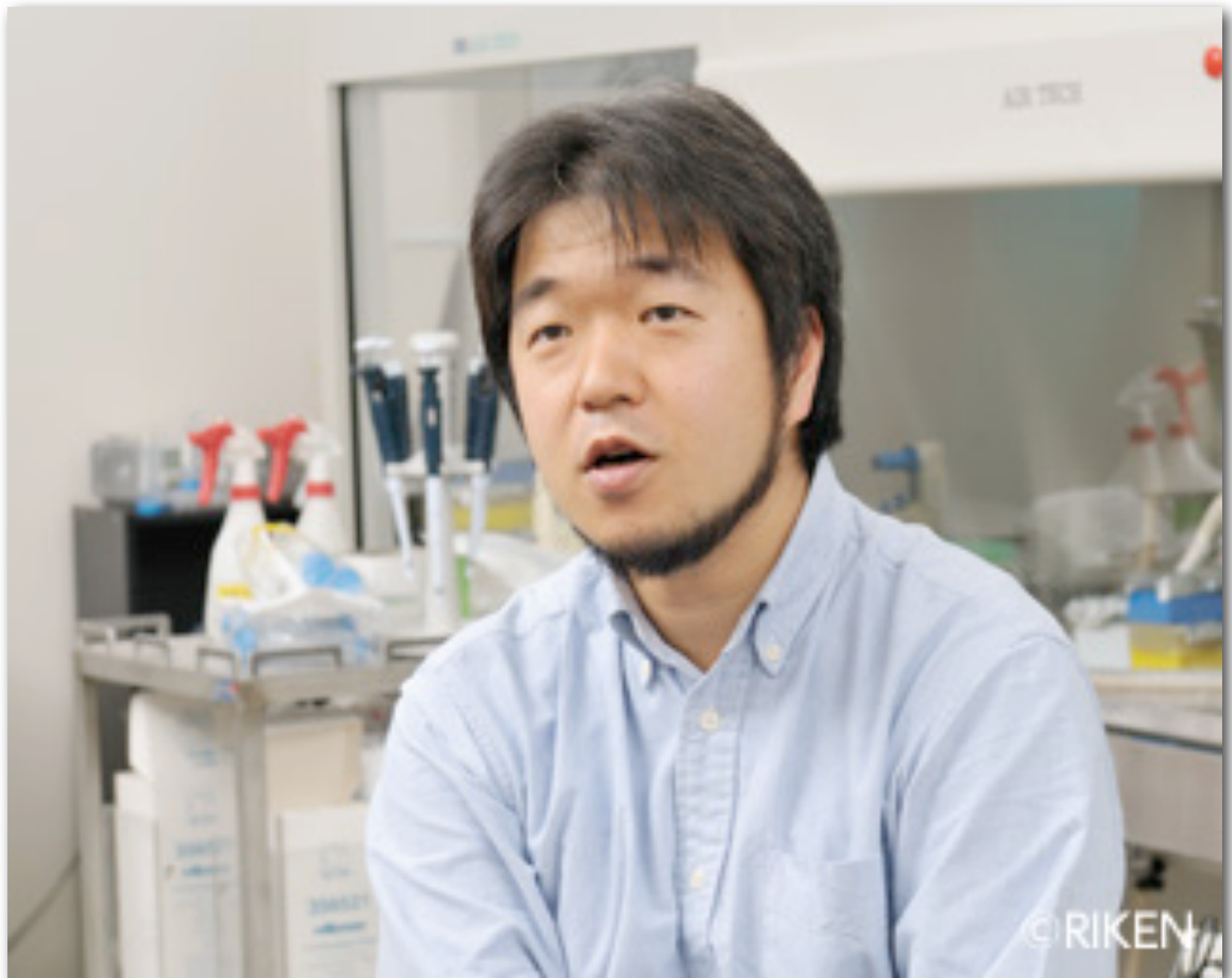
NGLY1



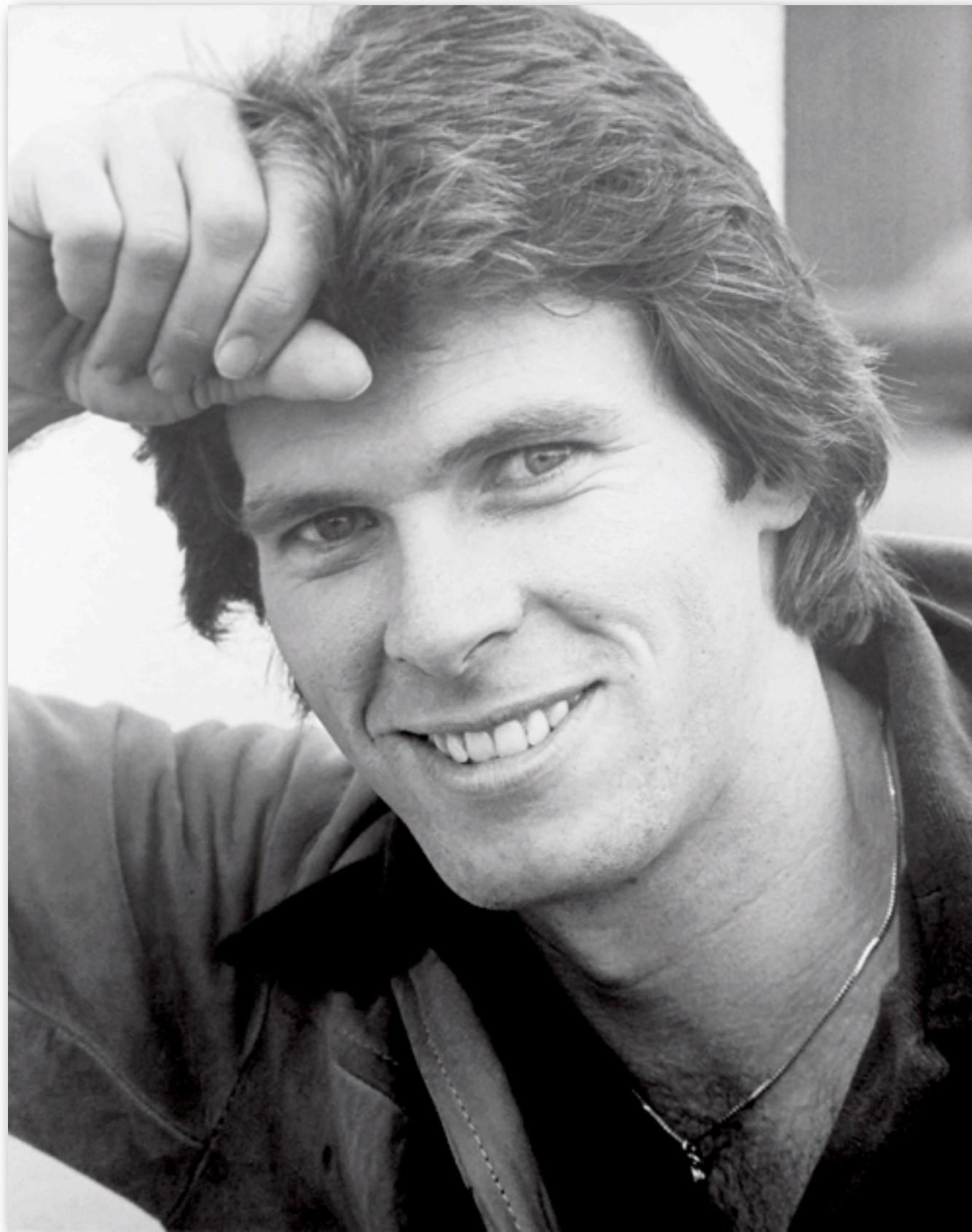
NGLY1



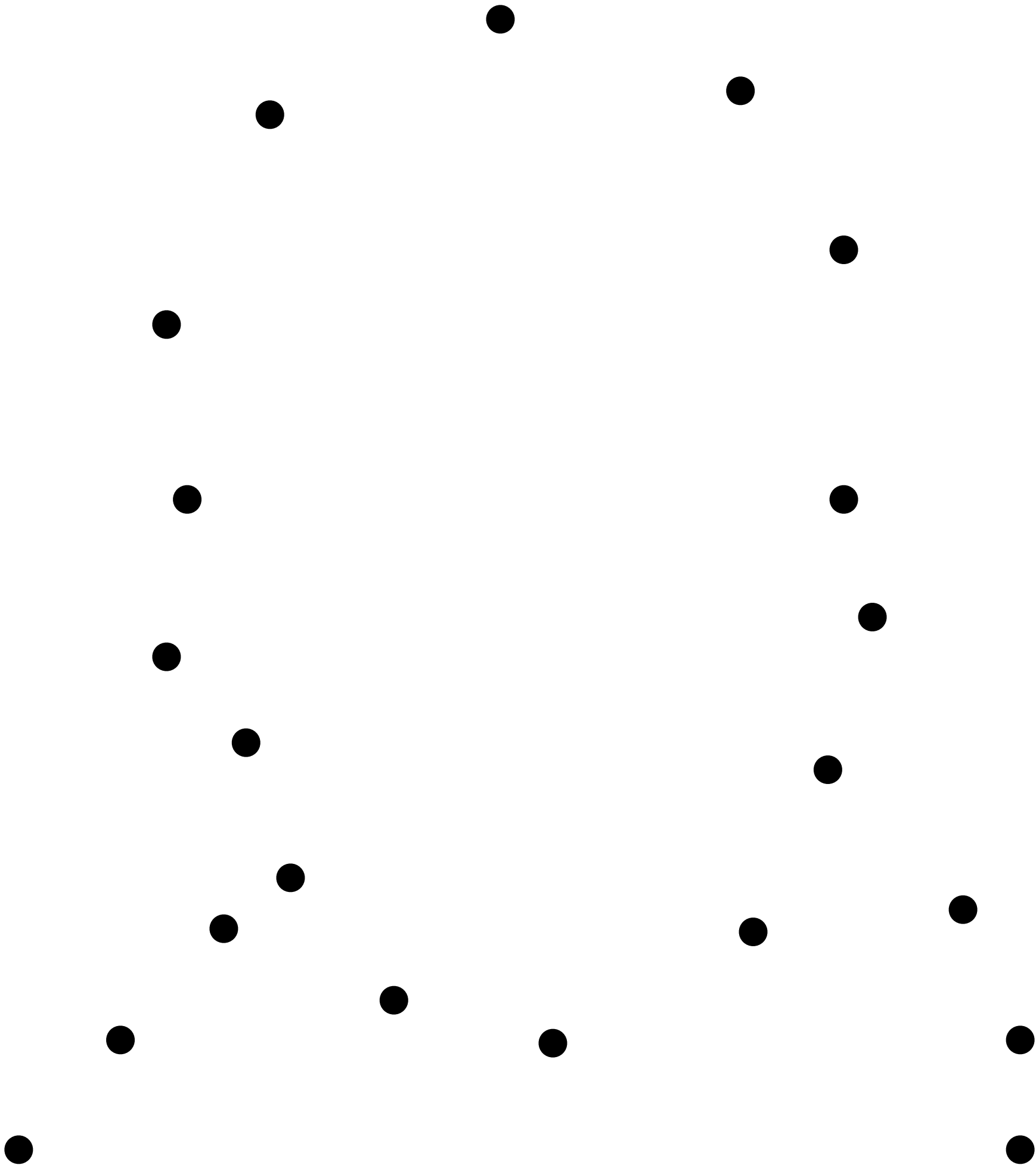
What if $n = 1$?



Tadashi Suzuki



Hudson Freeze









NGLY1

Why glycoscience matters















Mt. Glyco

We can't do this alone.

Hunting down my son's killer

[\[article index\]](#) [\[email me\]](#) [\[@mattmight\]](#) [\[+mattmight\]](#) [\[rss\]](#)

I found my son's killer.

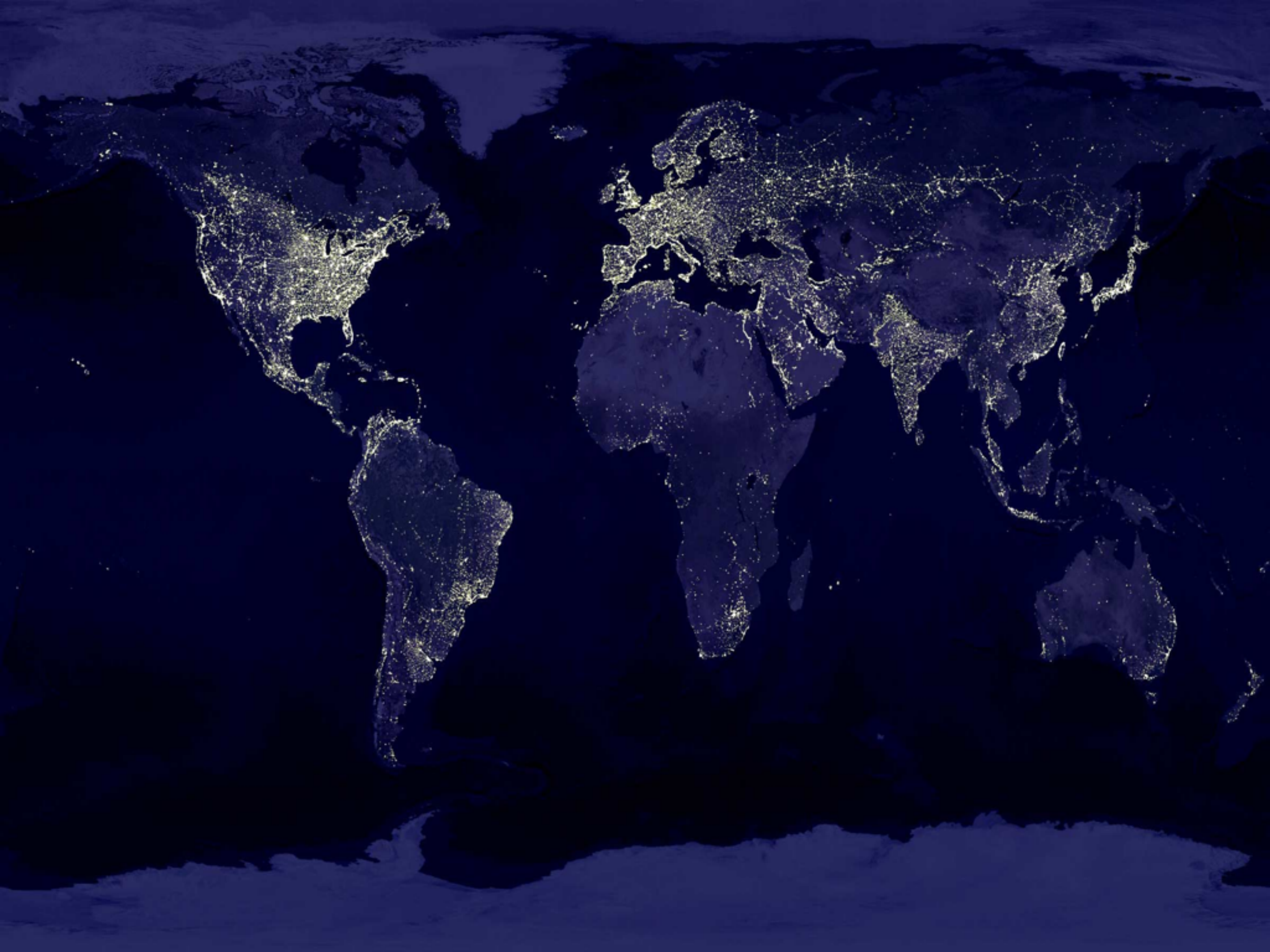
It took three years.

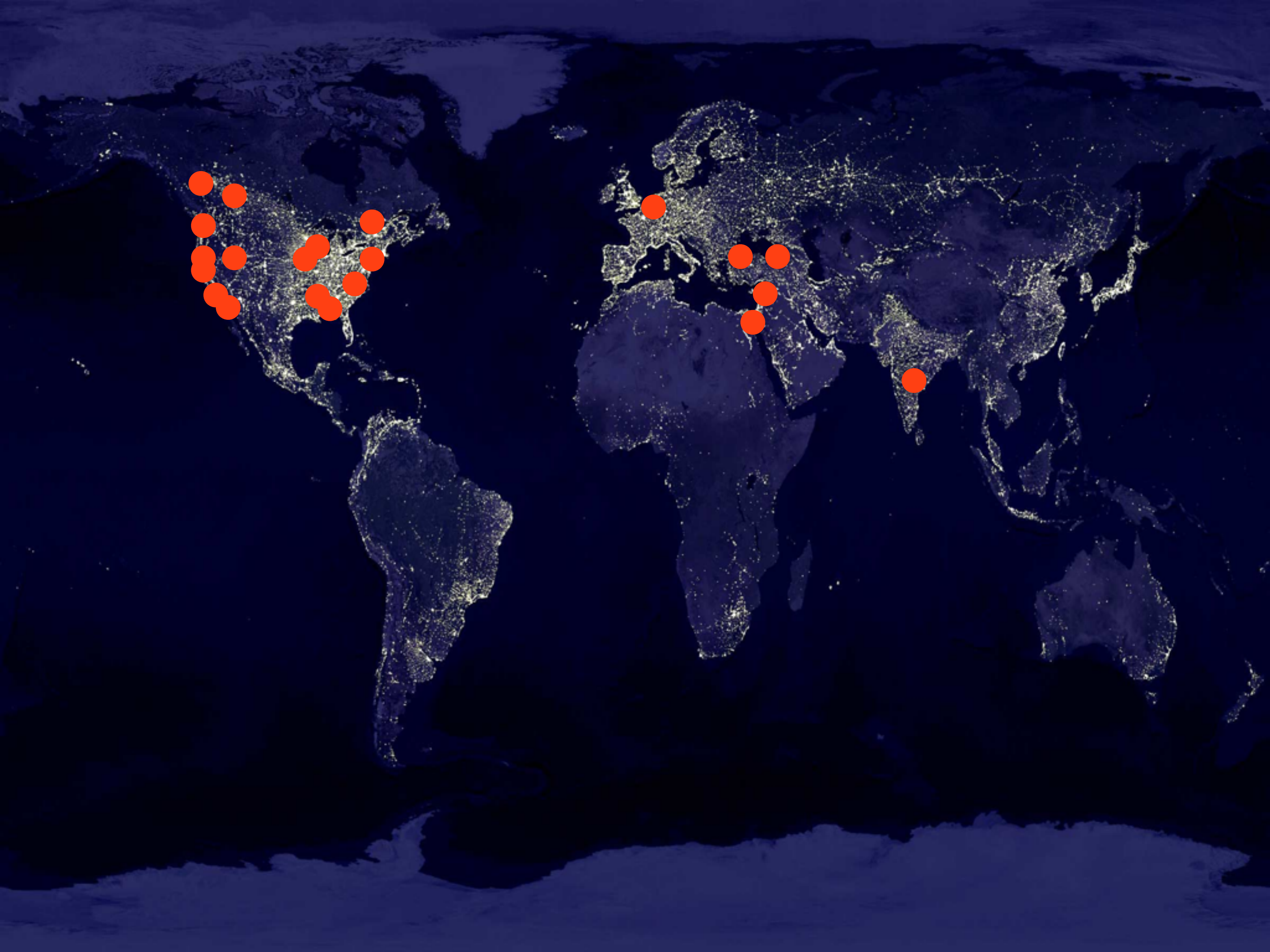
But we did it.



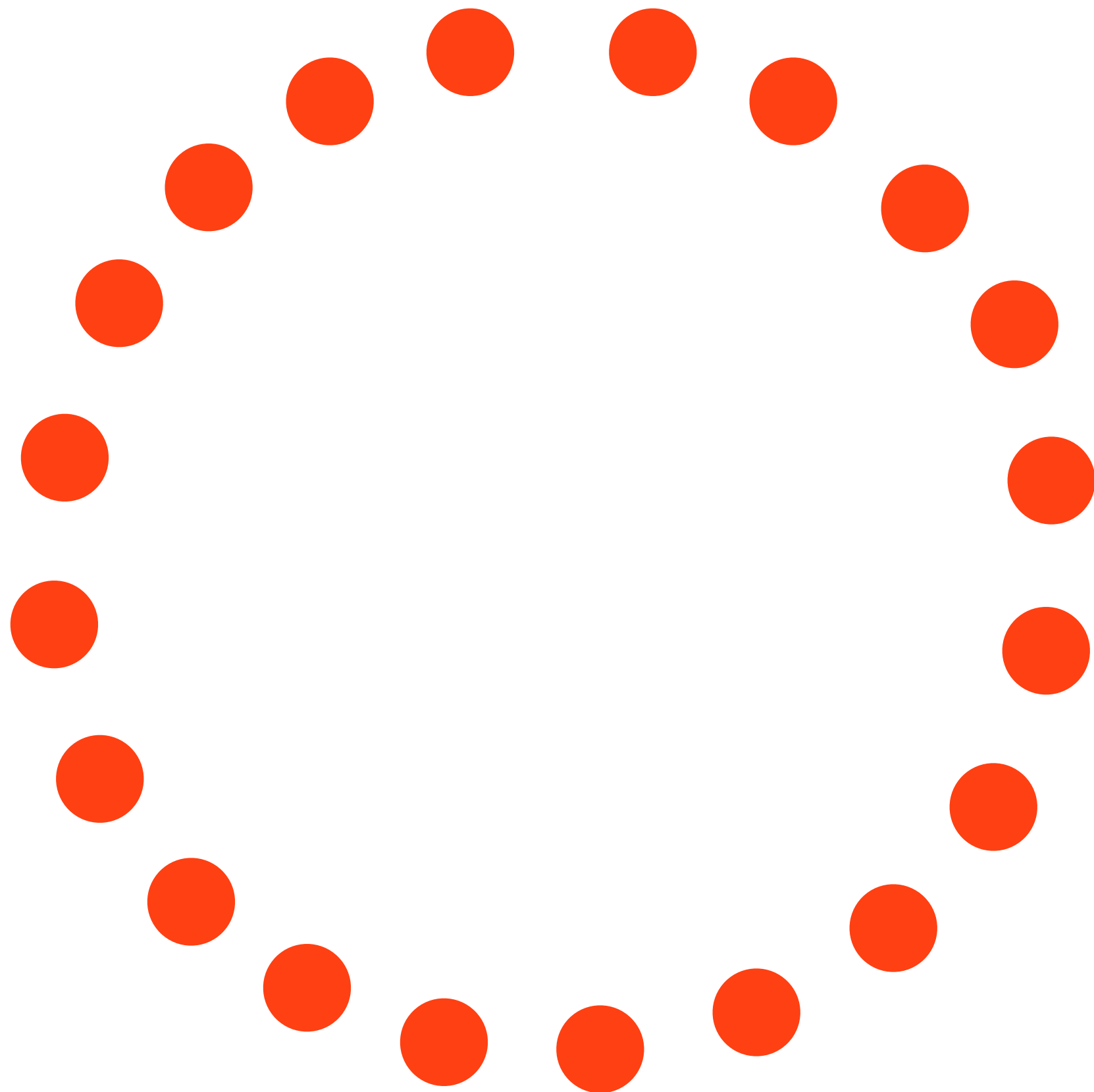
Not quite like this.

2,000,000+









20







National Institutes
of Health

CDG Natural History













Qty: 100
Reorder No. 8820000
Test Blue
Store in a cool, dry place.

WEST PAS UN











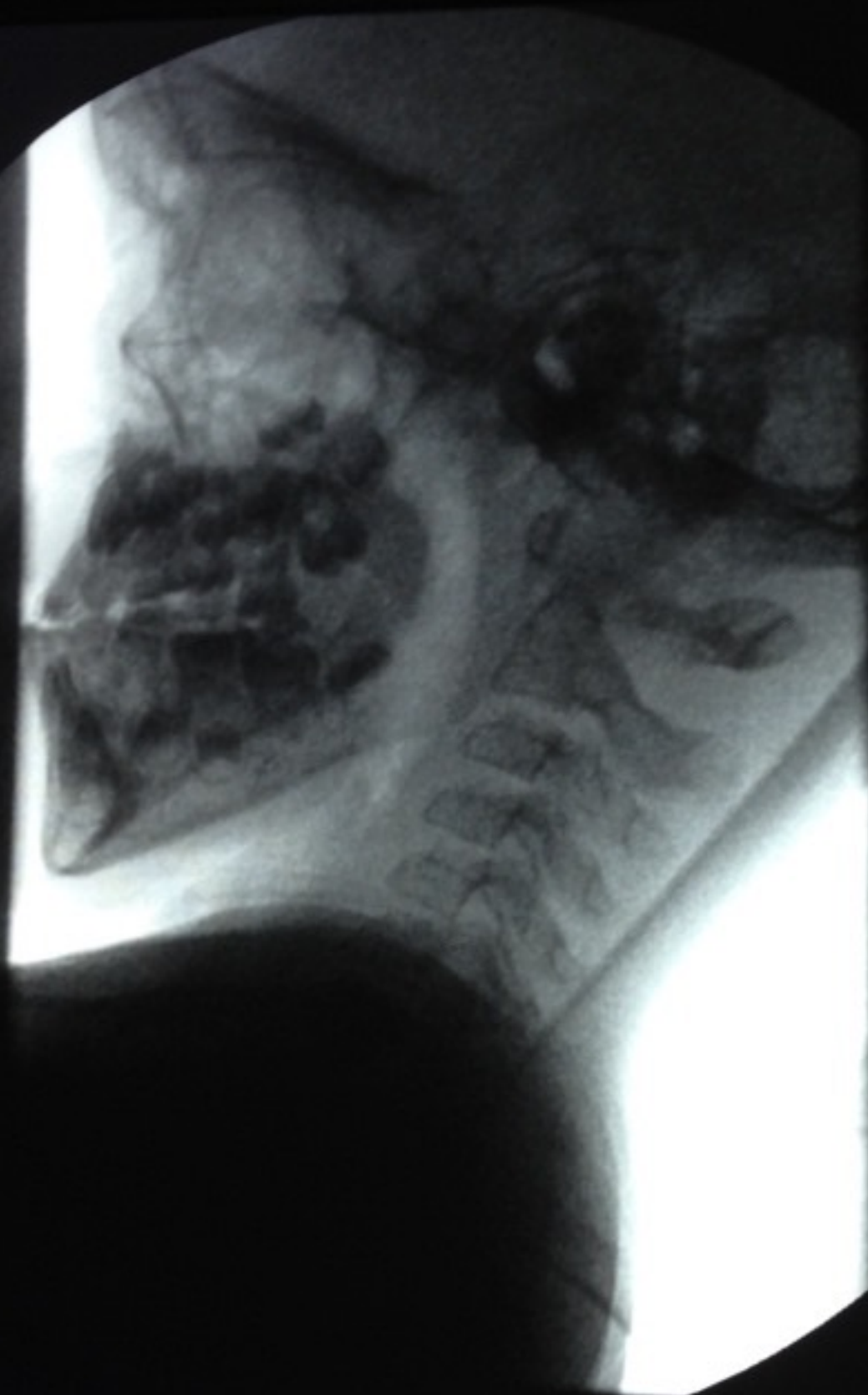












MIGHT
BERTRAND

Barium	Single shot
Singleshot	
Continuous	25 f/s

0	0	1000



Patient

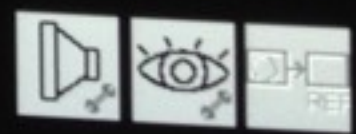
Examination

Postprocessing

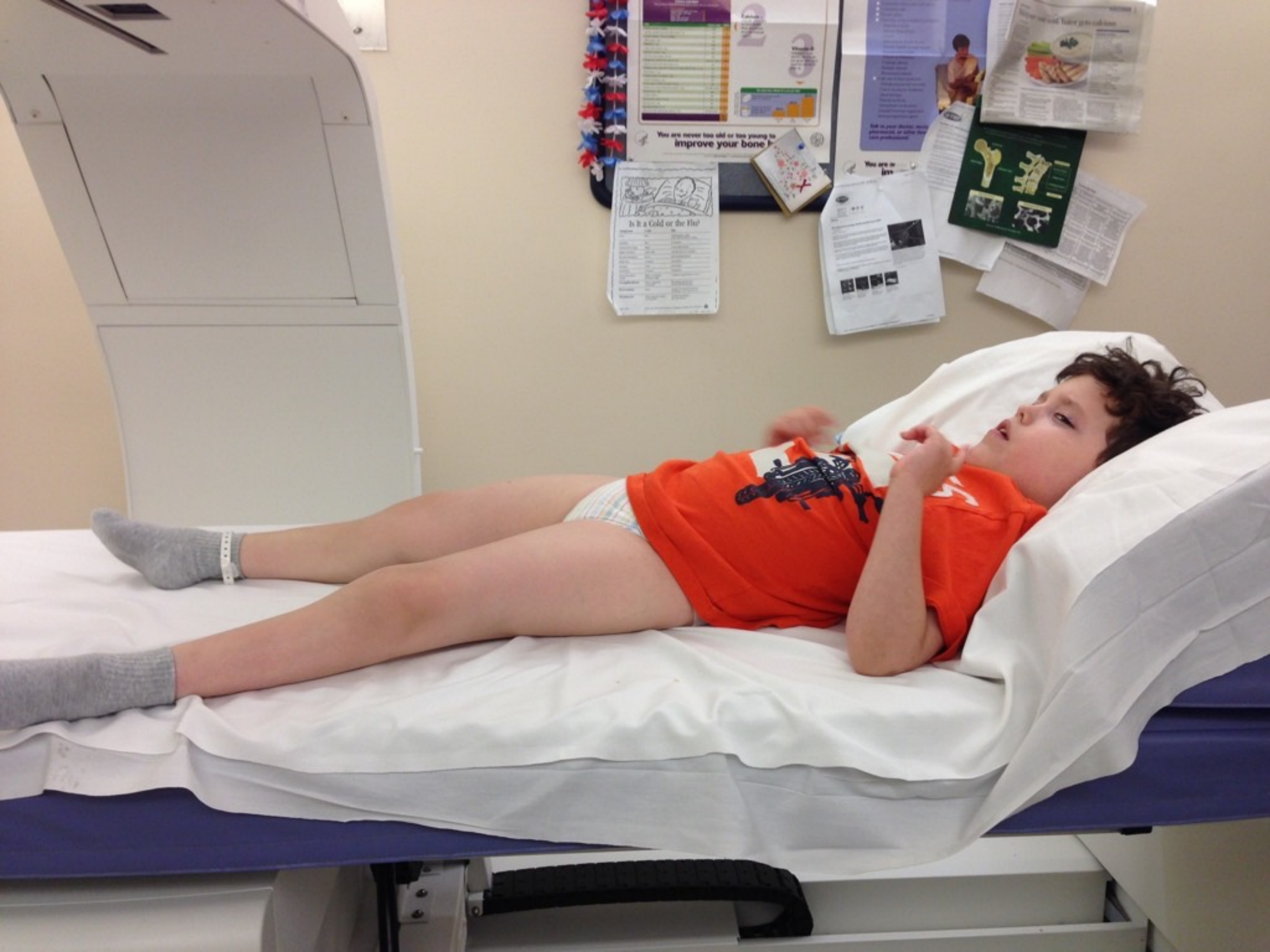
Documentation

LIH

Fluoro: Cu 0.0mm
Acquis: Cu 0.0mm
25.4 cGycm2

































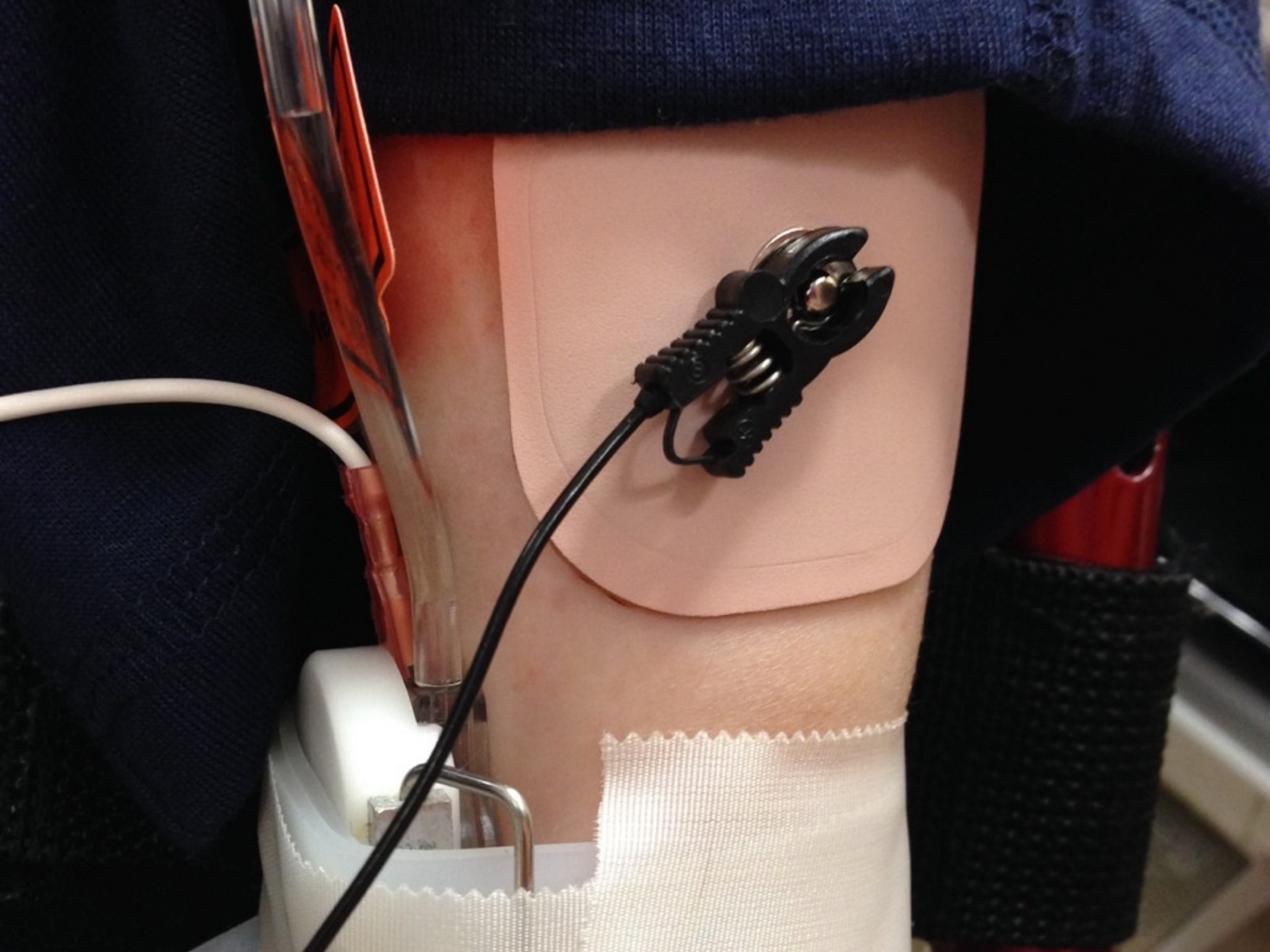
















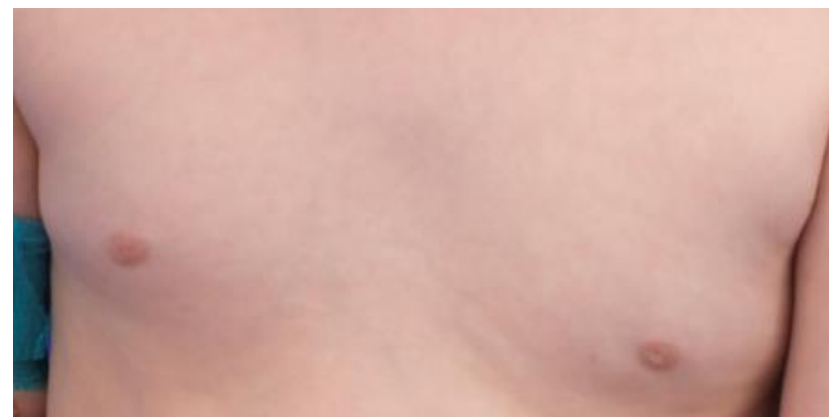


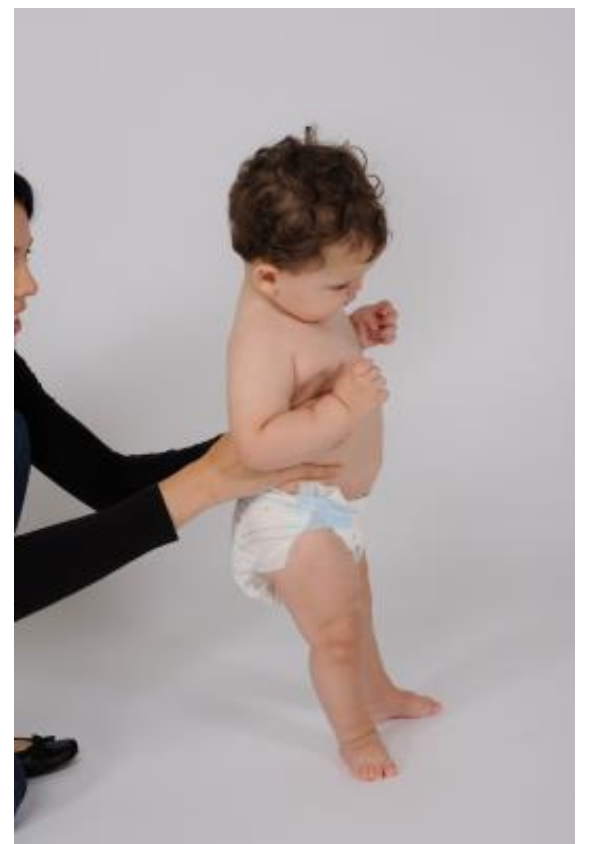














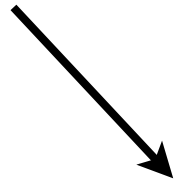








Biomarkers!





Oligos



GPI



NGLY1



Mito



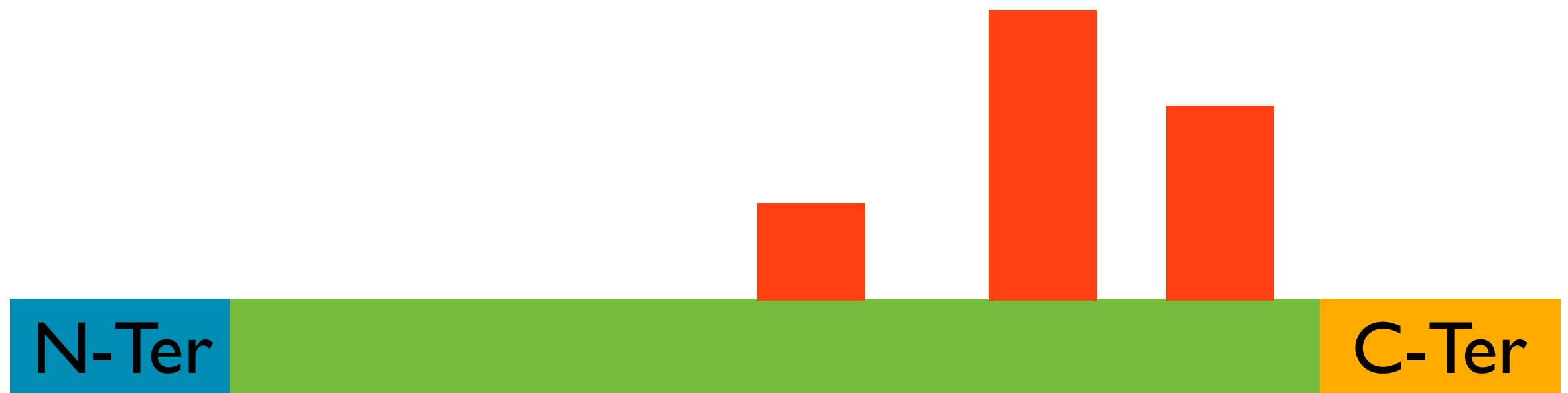
CSF protein

Community science

Nature



Patients



$\max(\text{mom}, \text{dad})$



$\max(\text{mom}, \text{dad})$



$\max(\text{mom}, \text{dad})$



active site

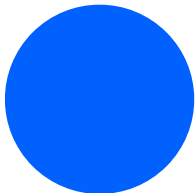
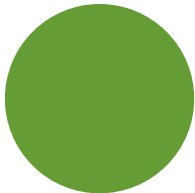
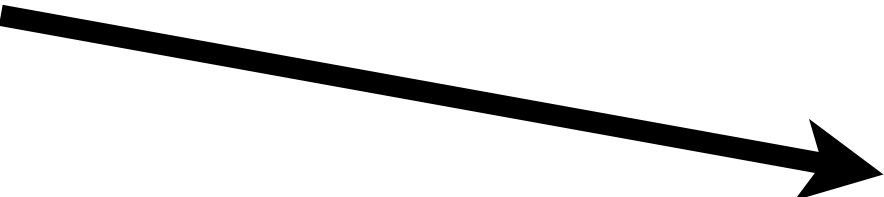
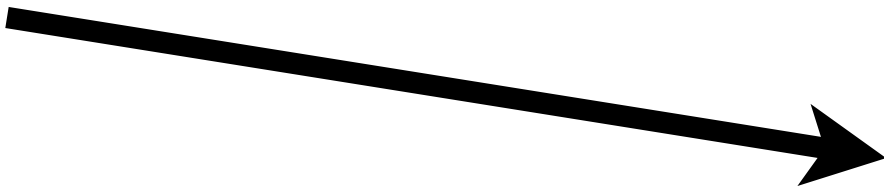


Severity



More

Less







**KEEP
CALM
AND
GLYCO
ON**

