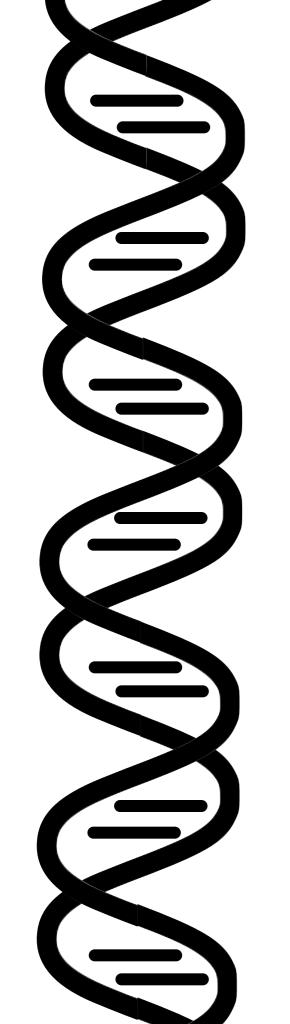
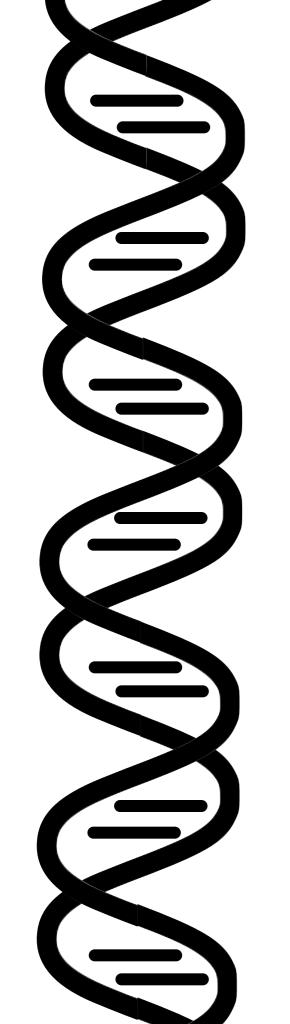
Matt Might, Ph.D. Associate Professor Computer Science University of Utah matt.might.net Omattmight



Patient Experience; Patient Engagement

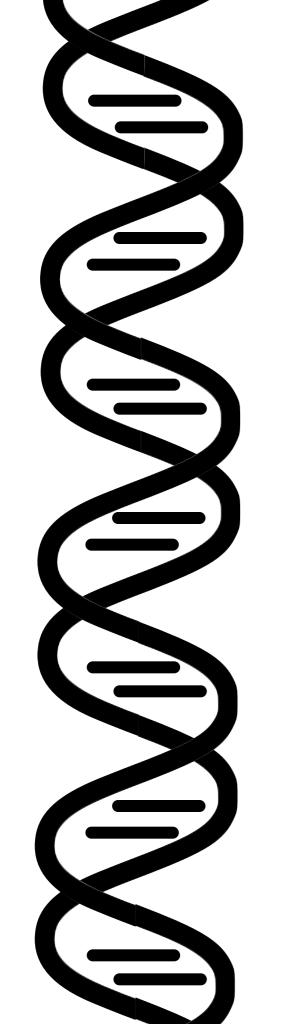
Matt Might, Ph.D. Associate Professor Computer Science University of Utah matt.might.net Omattmight





Patient Experience; Patient Engagement

Matt Might, Ph.D. Associate Professor Computer Science University of Utah matt.might.net Omattmight



Patient Experience; Patient Engagement

Matt Might, Dad







Undiagnosed

Patient Experience

Aftermath

"the island"

Patient Experience

Aftermath

"the island"

Logistics & Education

Aftermath

"the island"

Logistics & Education

Internet & Action

Undiagnosed Island























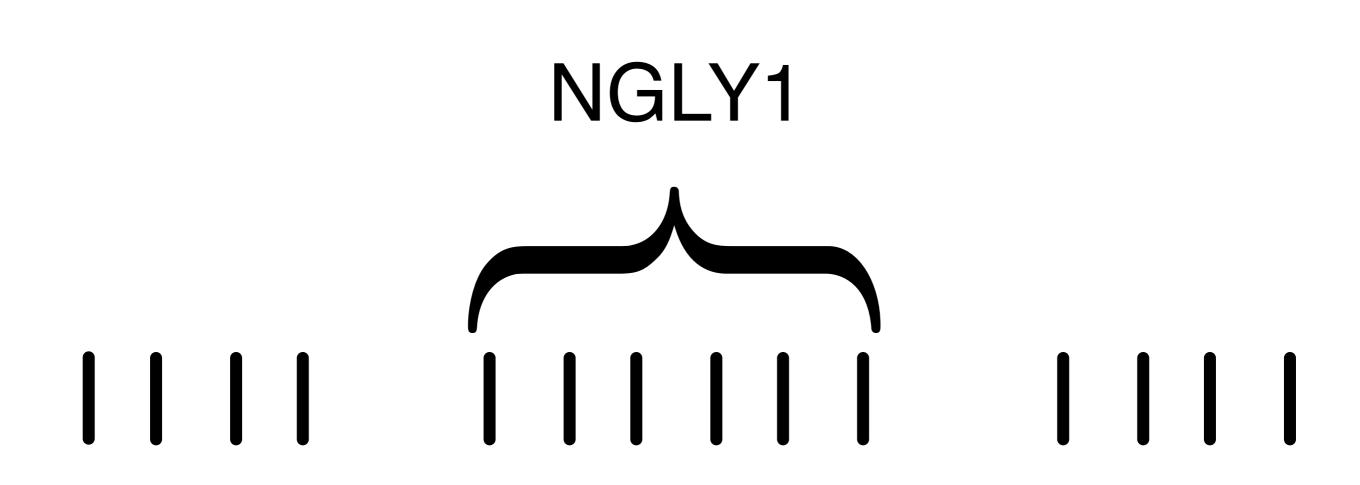


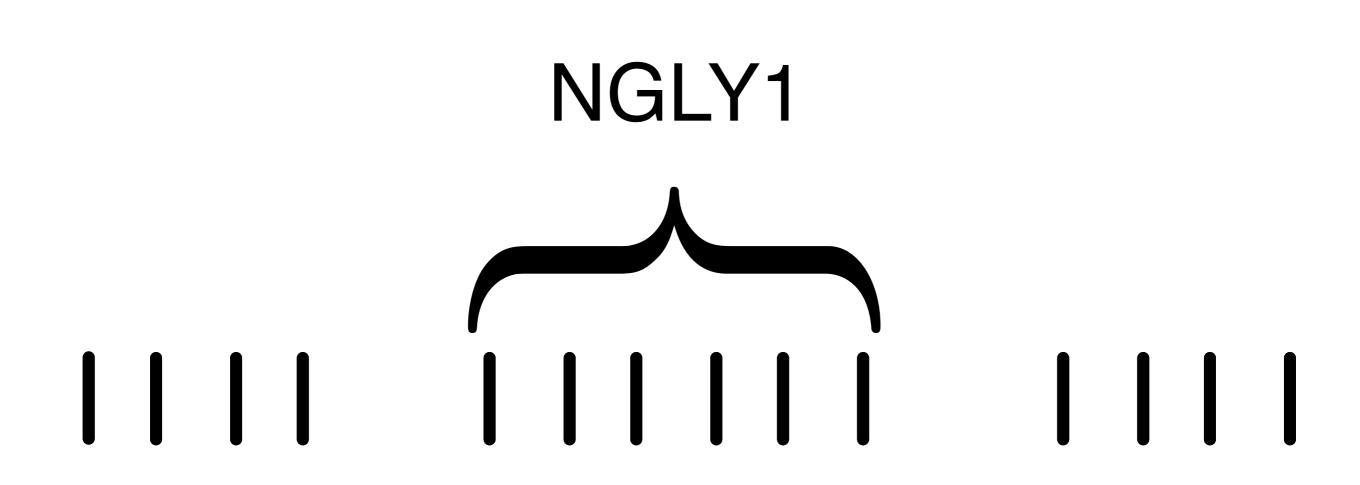


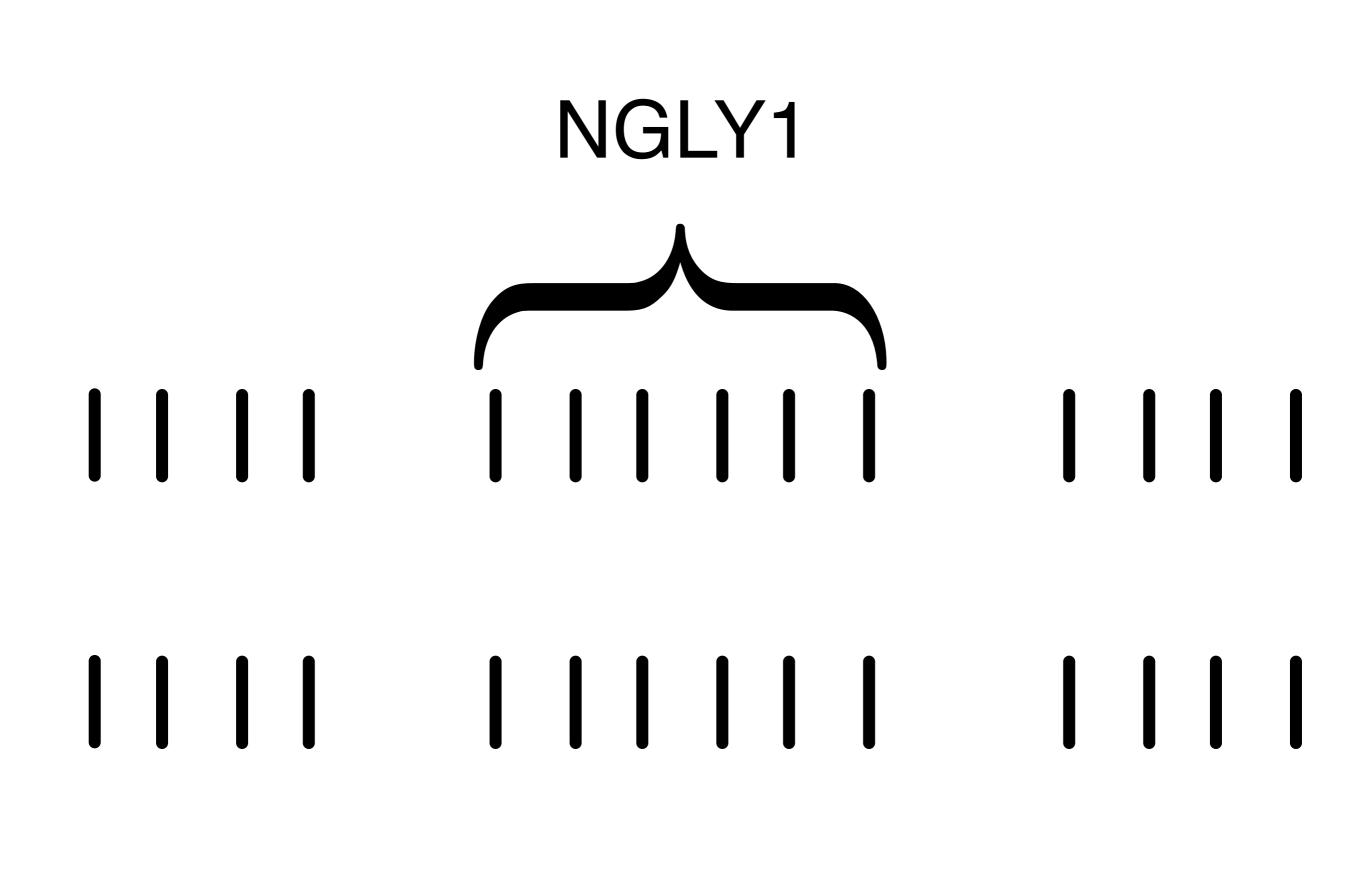


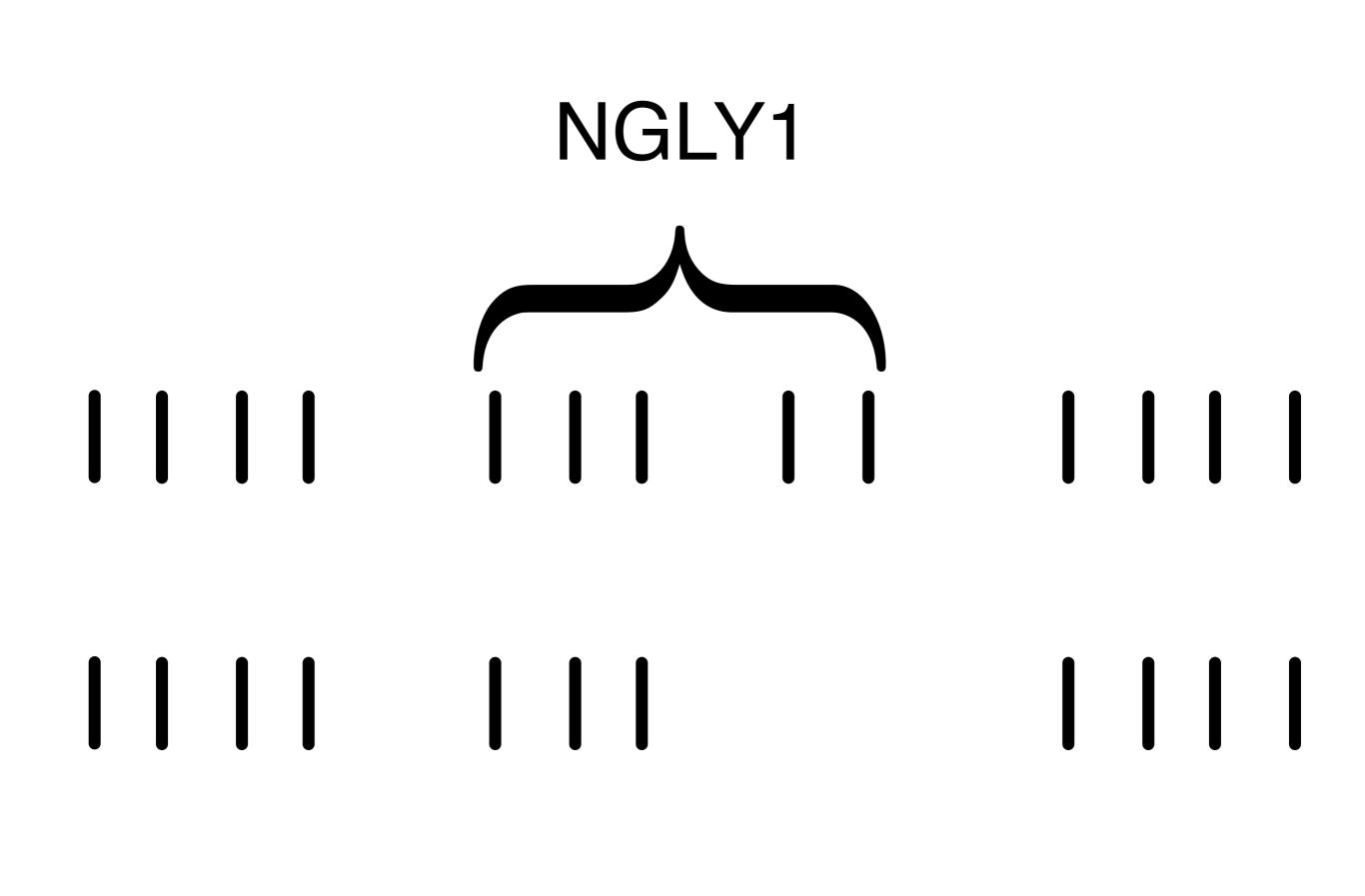


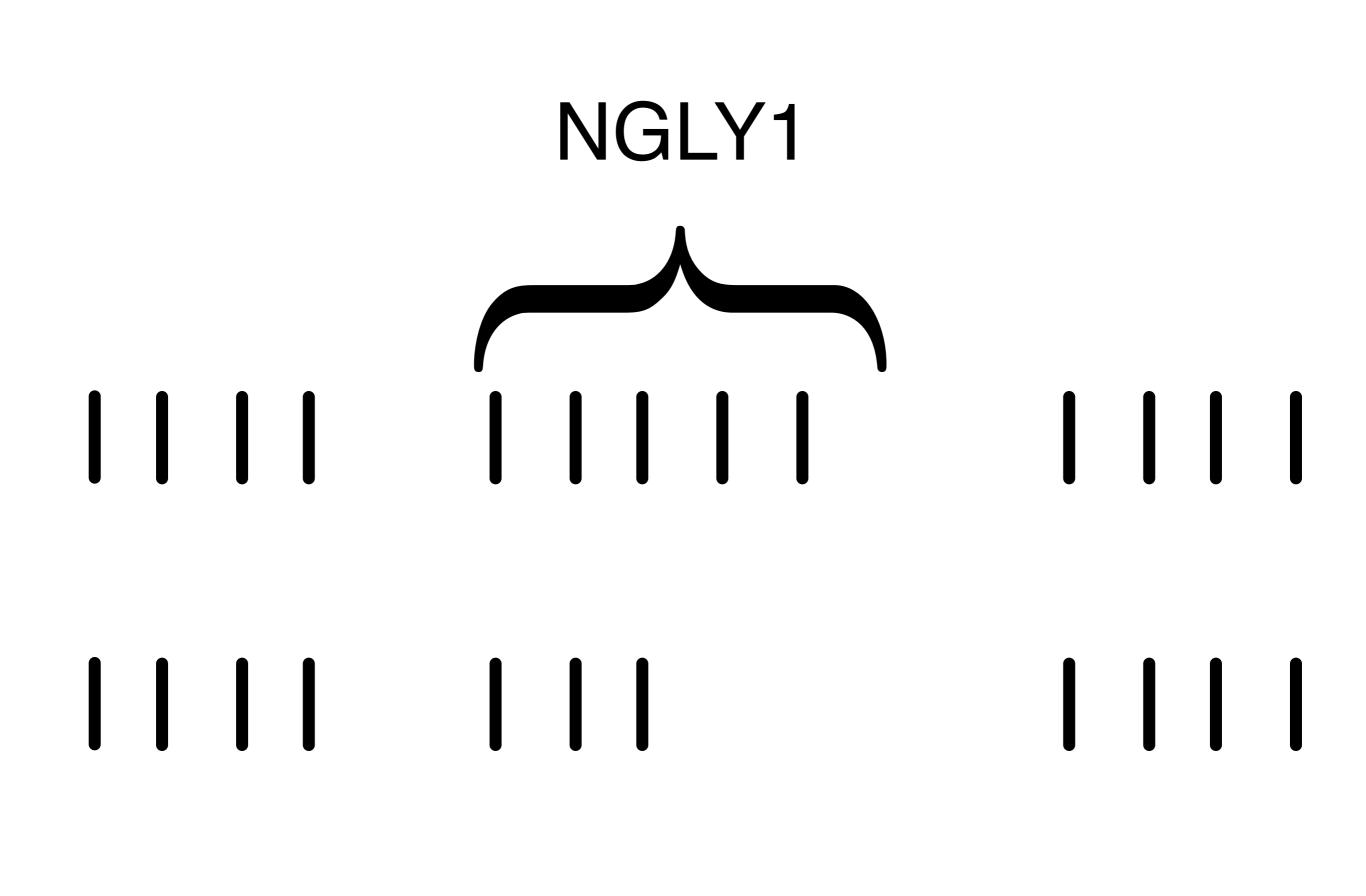
David Goldstein Kelly Schoch Vandana Shashi



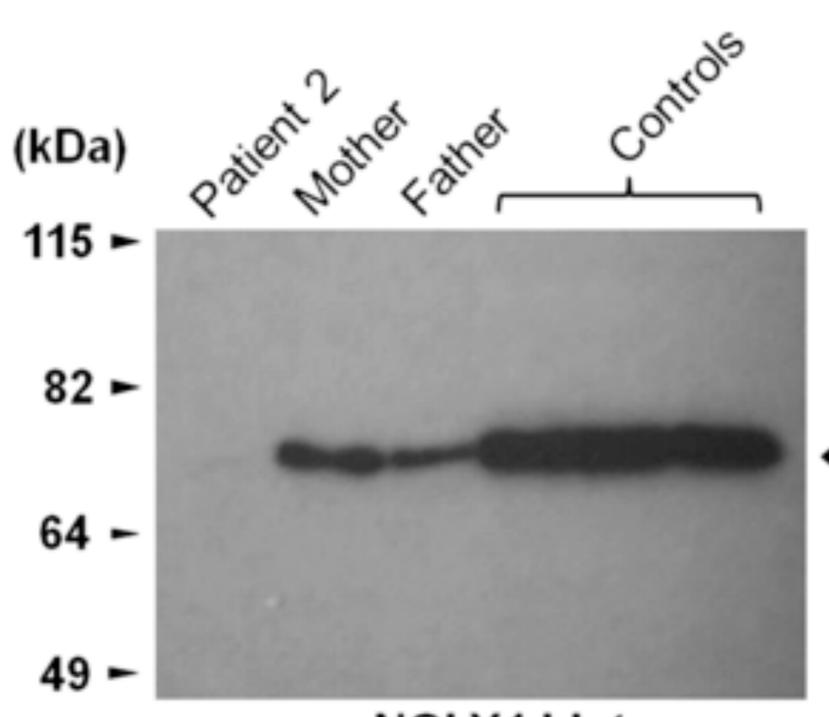






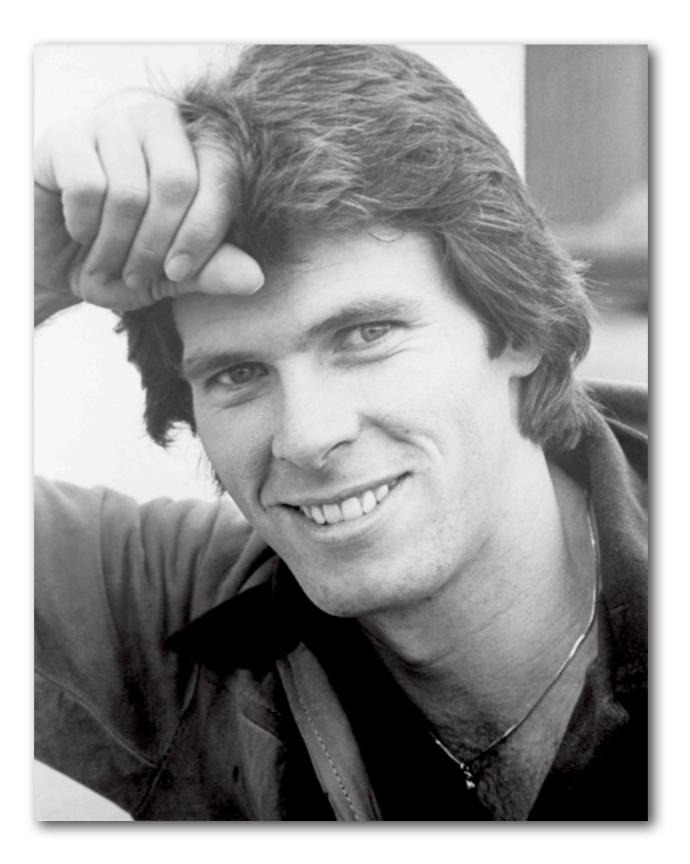


What if n = 1?



←NGLY1

NGLY1 blot



Hudson Freeze, Sanford-Burnham







Undiagnosed

Patient Experience

Aftermath

Patient Experience







Logistics

Lynne Wolfe



Clinician

Researcher

Field Marshal

What's it like?

















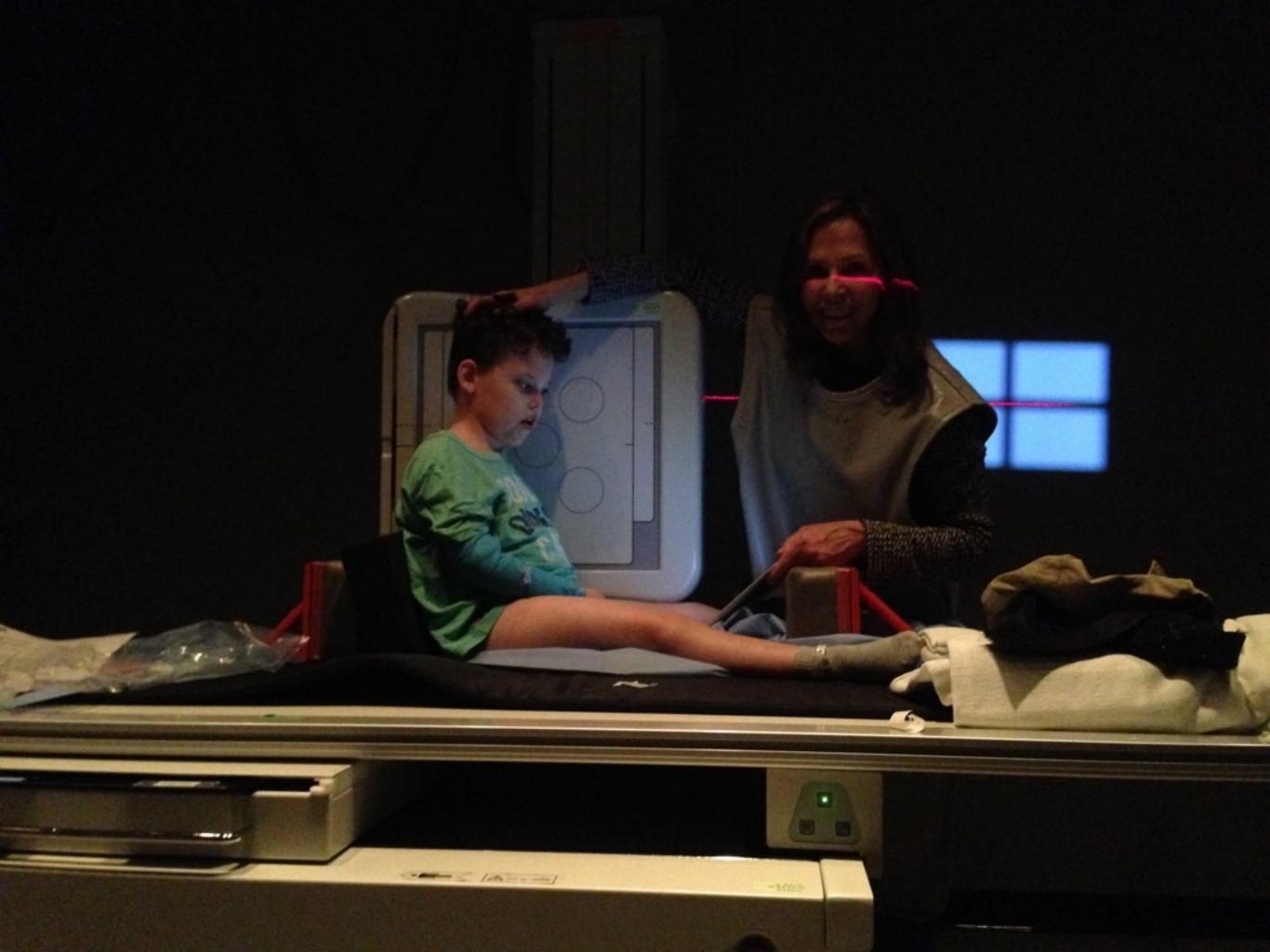








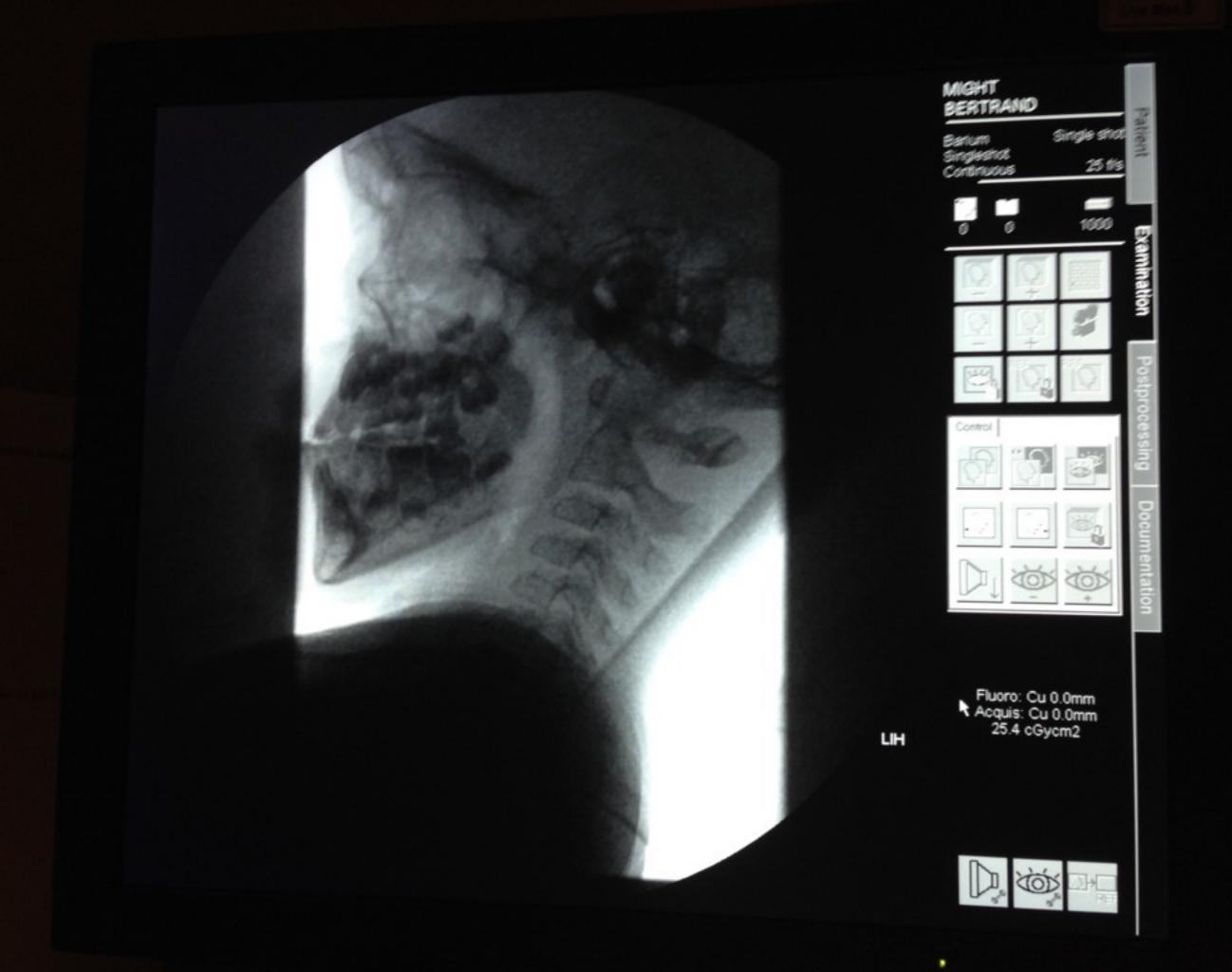










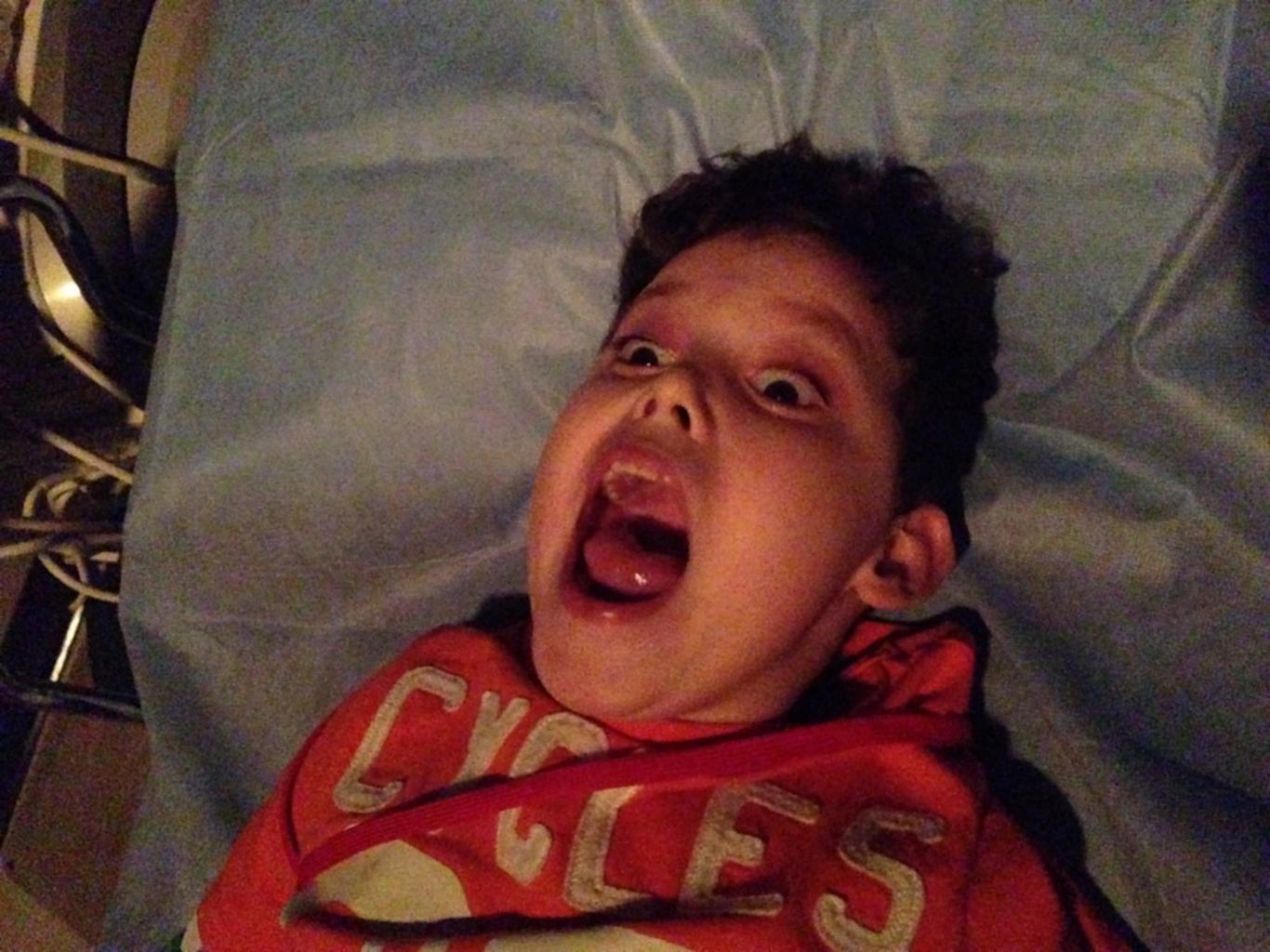
































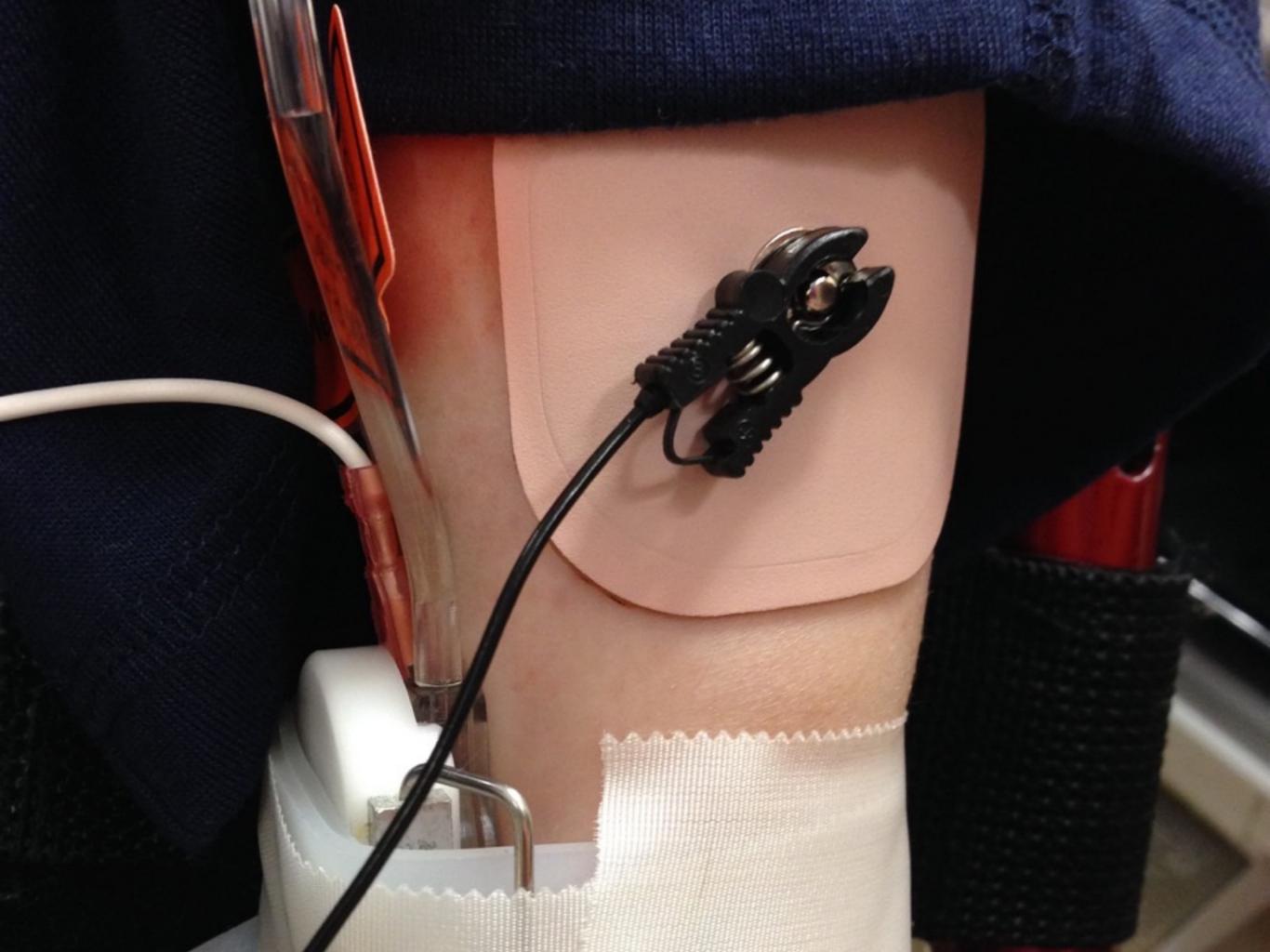






































How to improve?

Exhaustion.

It takes two.

science lessons.

pseudo science lessons.

"Homework" for patients.

Undiagnosed

Patient Experience

Aftermath

Aftermath





"Actionable"







Patient-initiated science

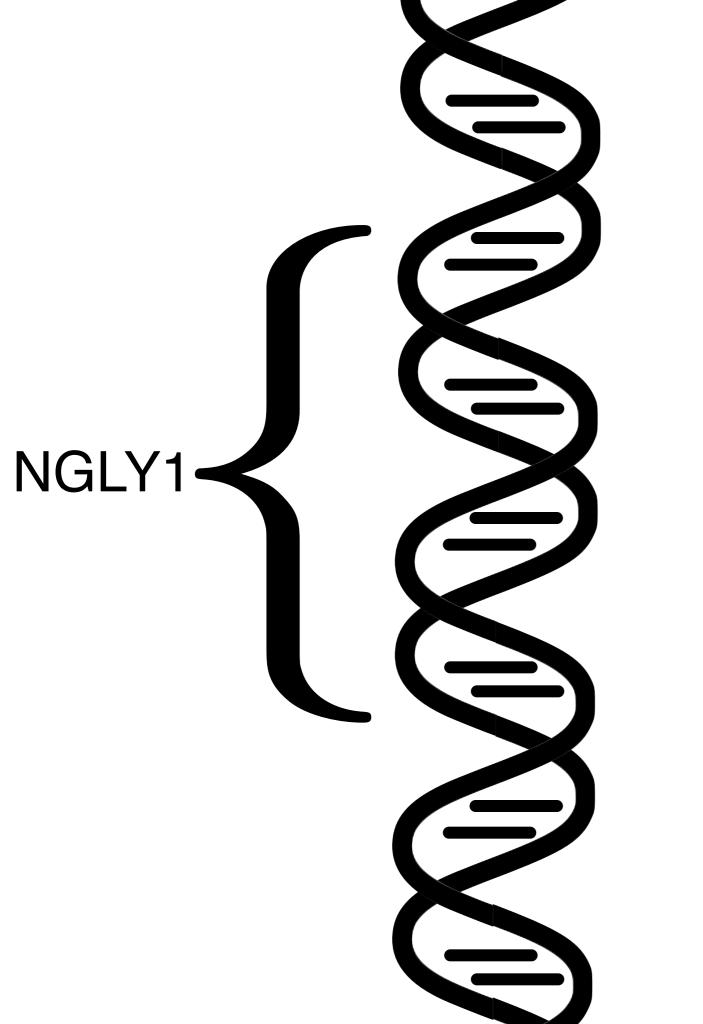


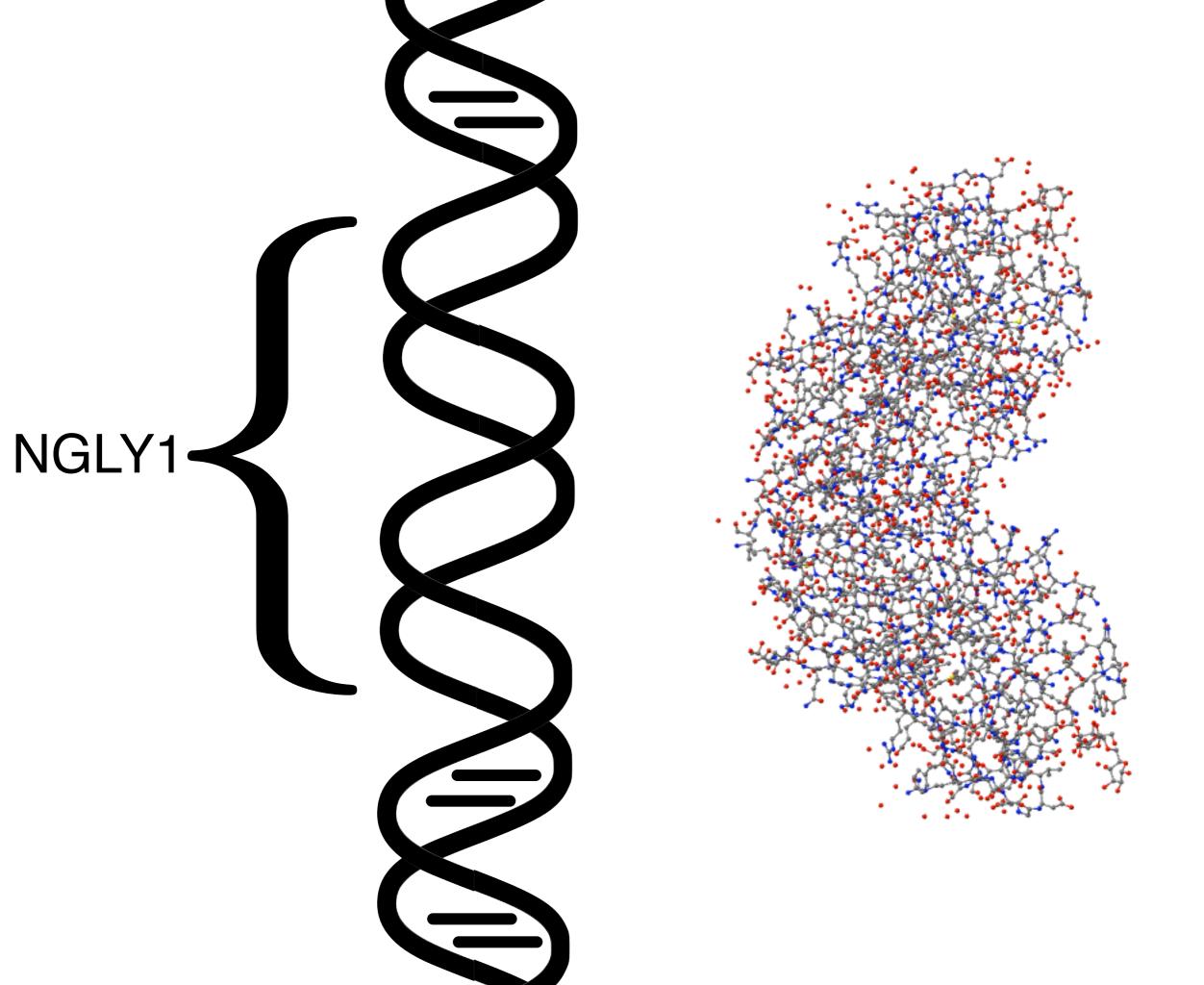


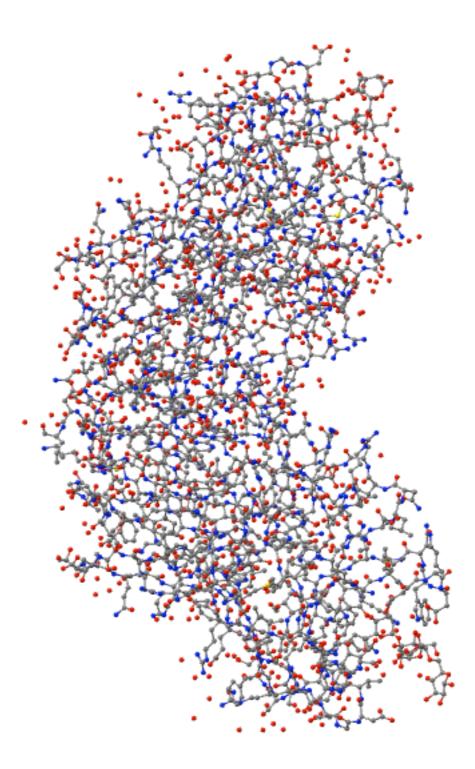


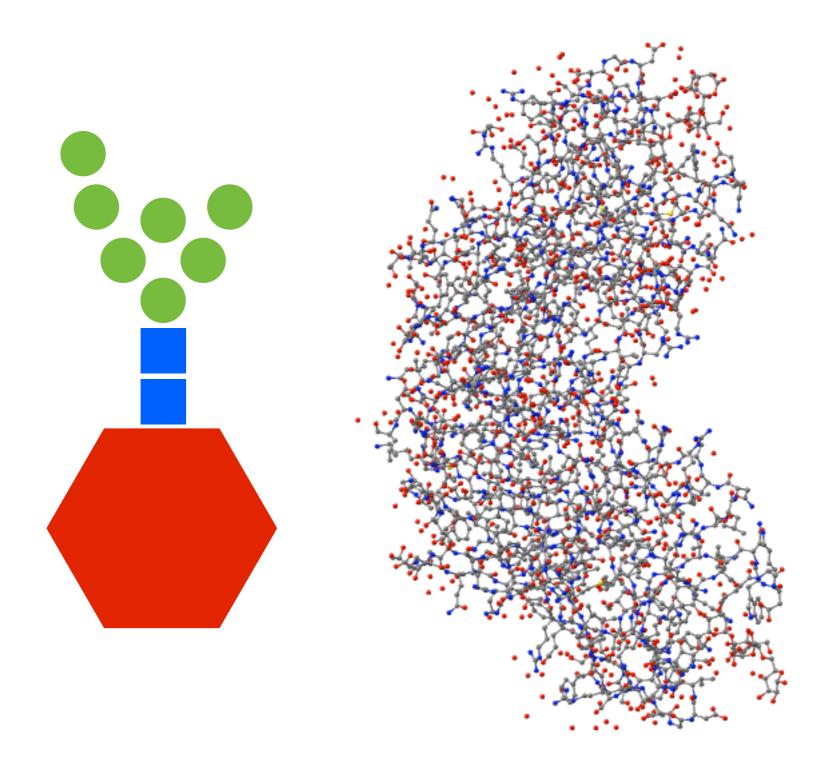


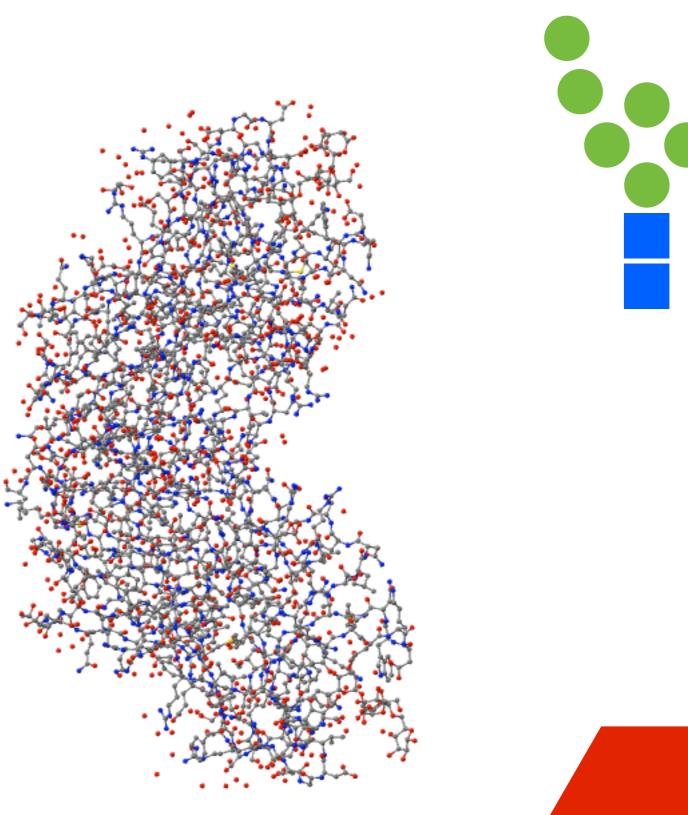


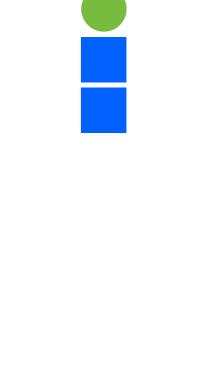


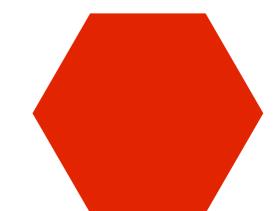


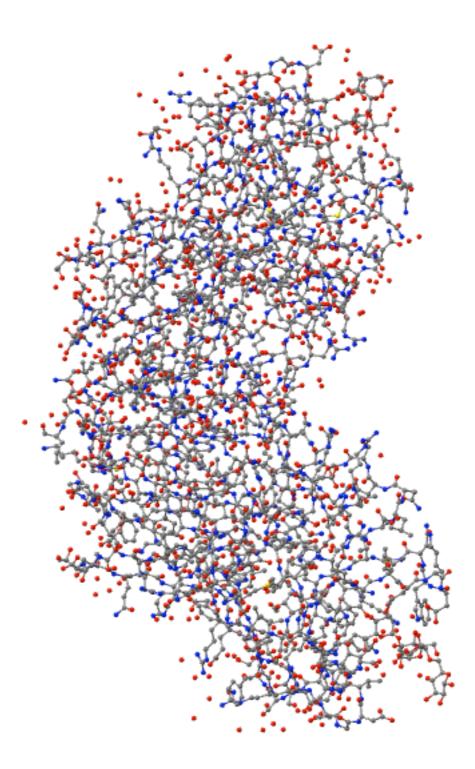


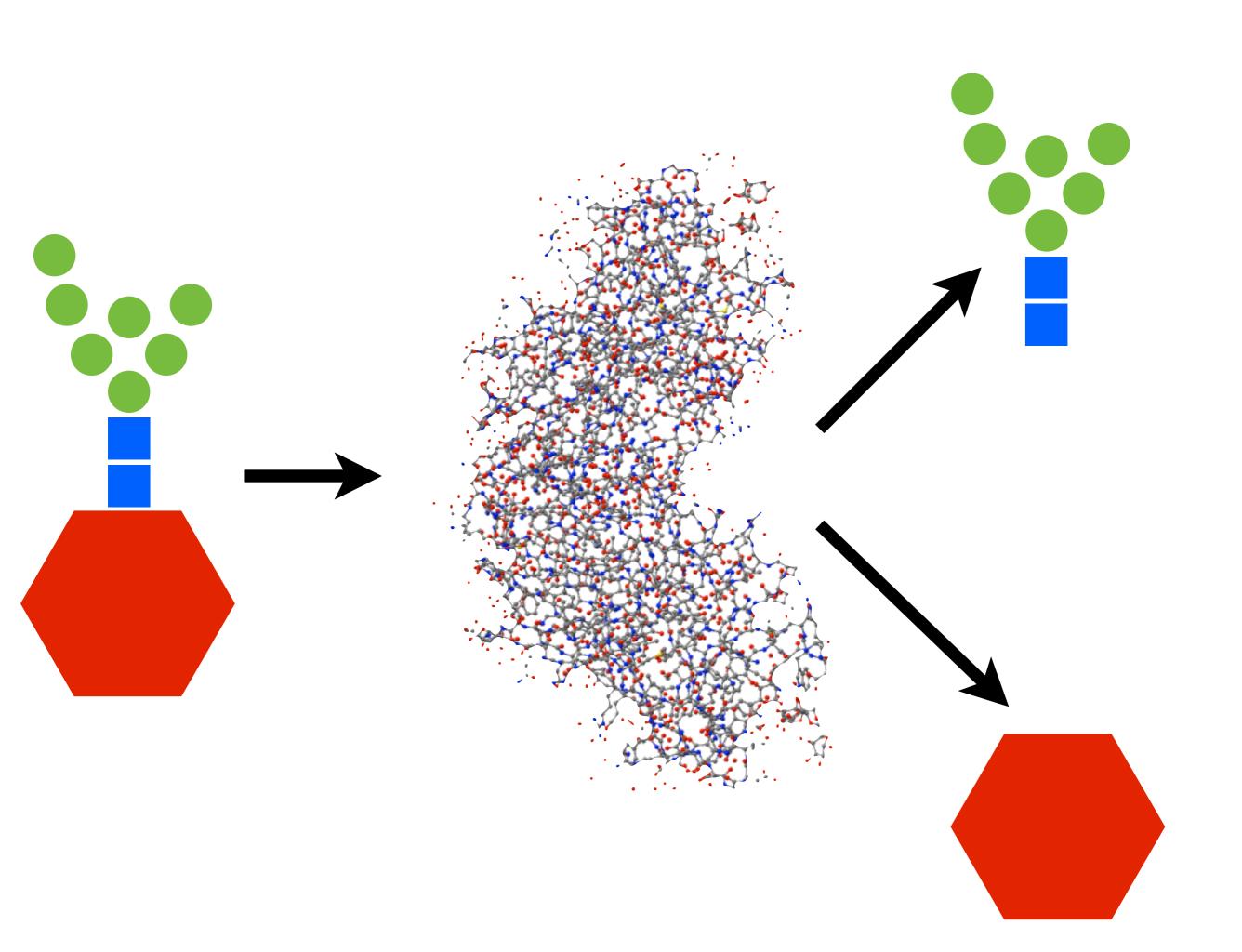


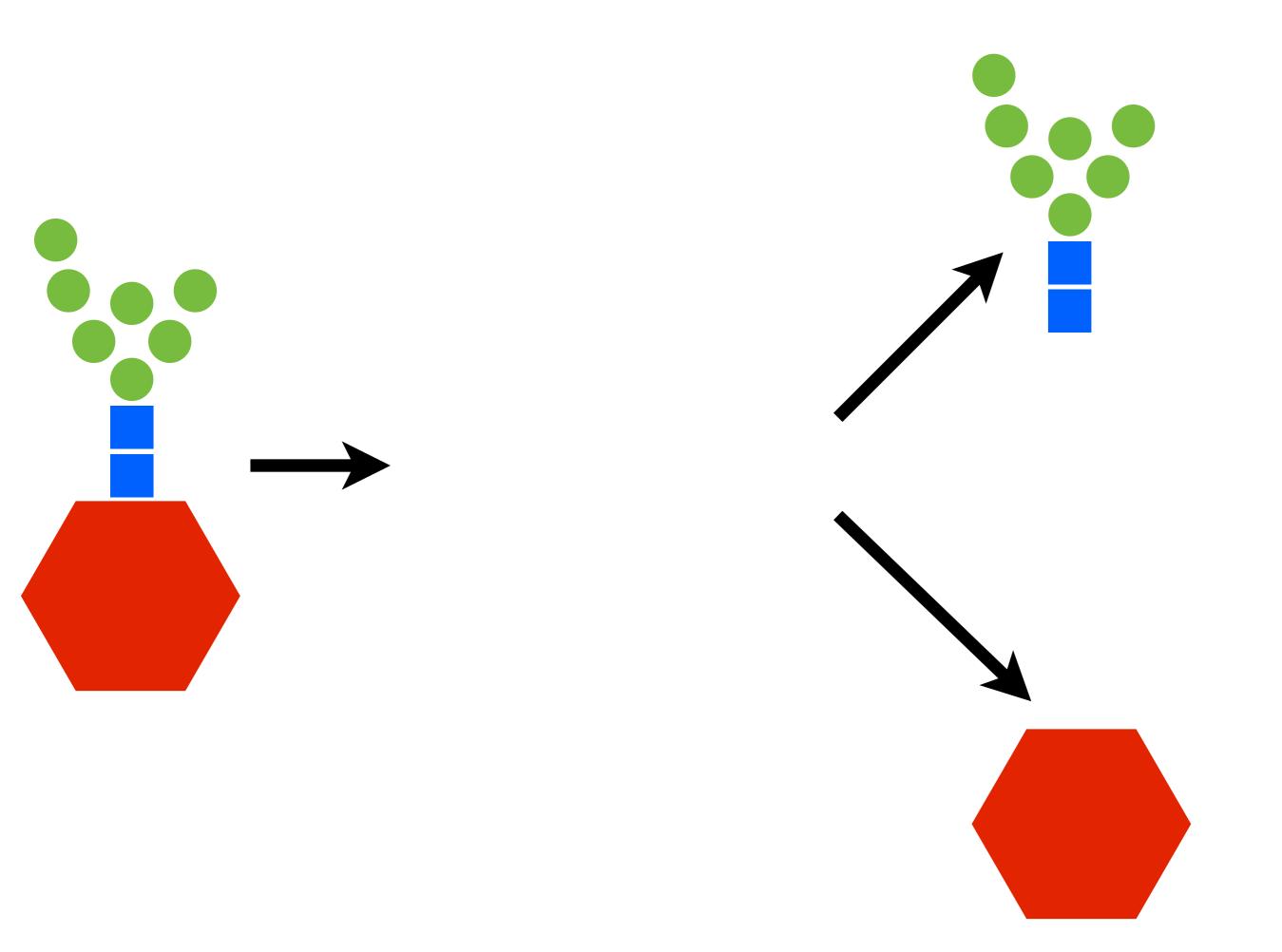


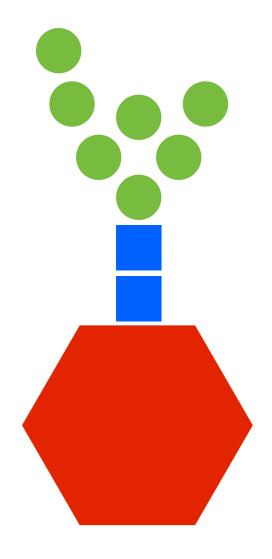


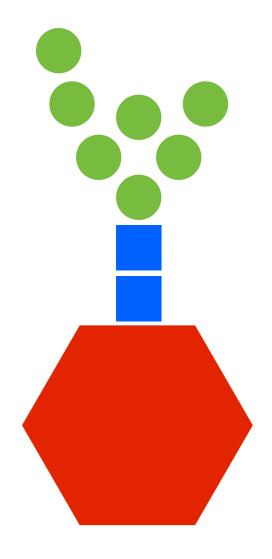


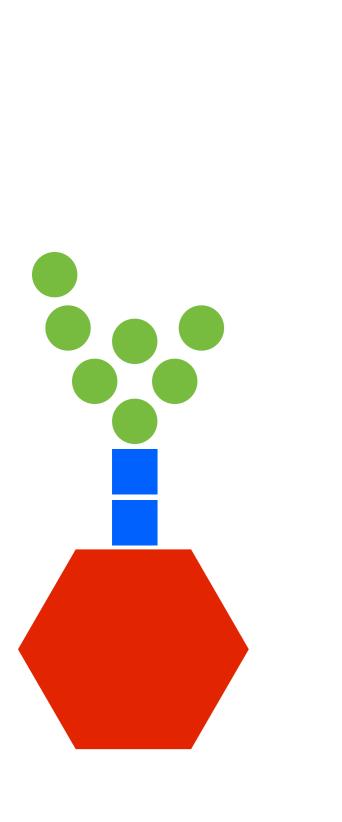


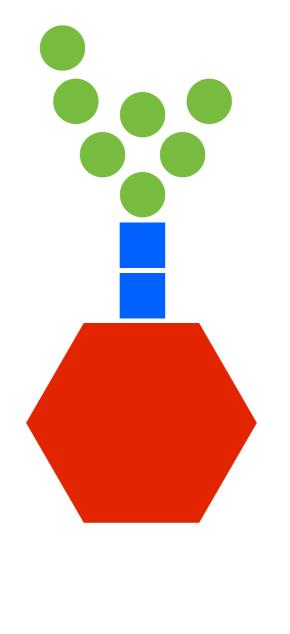


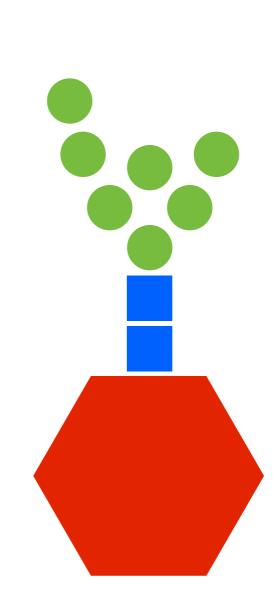


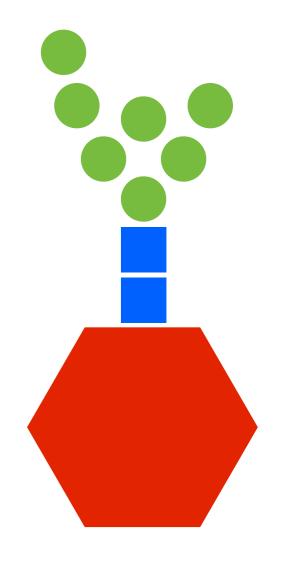












Hunting down my son's killer

[article index] [email me] [@mattmight] [+mattmight] [rss]

I found my son's killer.

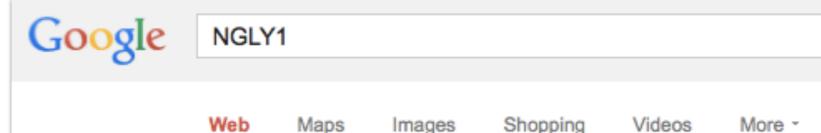
It took three years.

But we did it.



Not quite like this.

2,000,000+



About 12,000 results (0.43 seconds)

NGLY1 Gene - GeneCards | NGLY1 Protein | NGLY1 Antibody

www.genecards.org/cgi-bin/carddisp.pl?gene=NGLY1 -

Complete information for NGLY1 gene (protein-coding), N-glycanase 1, including: function, proteins, disorders, pathways, orthologs, and expression.

NGLY1 - Wikipedia, the free encyclopedia

en.wikipedia.org/wiki/NGLY1 - Wikipedia -

Peptide-N(4)-(N-acetyl-beta-glucosaminyl)asparagine amidase is an enzyme that in humans is encoded by the NGLY1 gene.

NGLY1 N-glycanase 1 [Homo sapiens (human)]

www.ncbi.nlm.nih.gov/gene/55768 - National Center for Biotec... -5 days ago - This gene encodes an enzyme that catalyzes hydrolysis of an N(4)-(acetylbeta-D-glucosaminyl) asparagine residue to ...

OMIM Entry - * 610661 - N-GLYCANASE 1; NGLY1

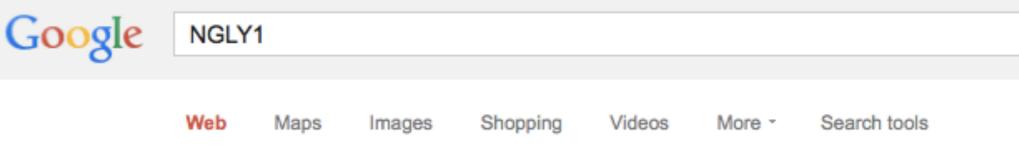
www.omim.org/610661
OMIM : Online Mendelian...
Jun 12, 2013 - (2000) identified several homologs of yeast Png1, including human
NGLY1. In yeast, Png1 was expressed in both the cytoplasm and nucleus.

Hunting down my son's killer - Matt Might

matt.might.net/articles/my-sons-killer/ -

We discovered that my son inherited two different (thus-far-unique) mutations in the same gene--the NGLY1 gene--which encodes the enzyme N-glycanase 1.

Search tools



About 12,000 results (0.43 seconds)

NGLY1 Gene - GeneCards | NGLY1 Protein | NGLY1 Antibody

www.genecards.org/cgi-bin/carddisp.pl?gene=NGLY1 -

Complete information for NGLY1 gene (protein-coding), N-glycanase 1, including: function, proteins, disorders, pathways, orthologs, and expression.

NGLY1 - Wikipedia, the free encyclopedia

en.wikipedia.org/wiki/NGLY1 - Wikipedia -

Peptide-N(4)-(N-acetyl-beta-glucosaminyl)asparagine amidase is an enzyme that in humans is encoded by the NGLY1 gene.

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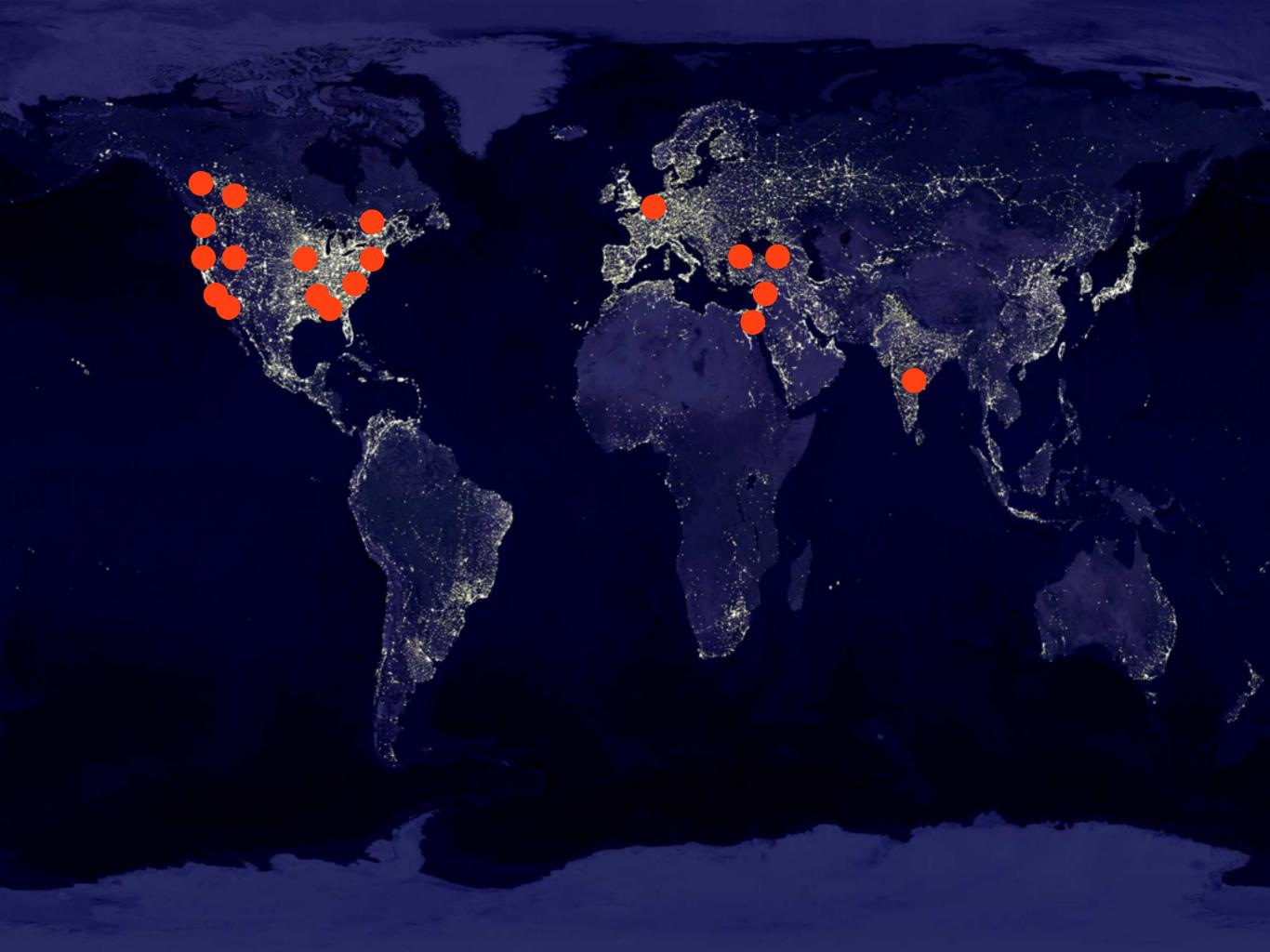
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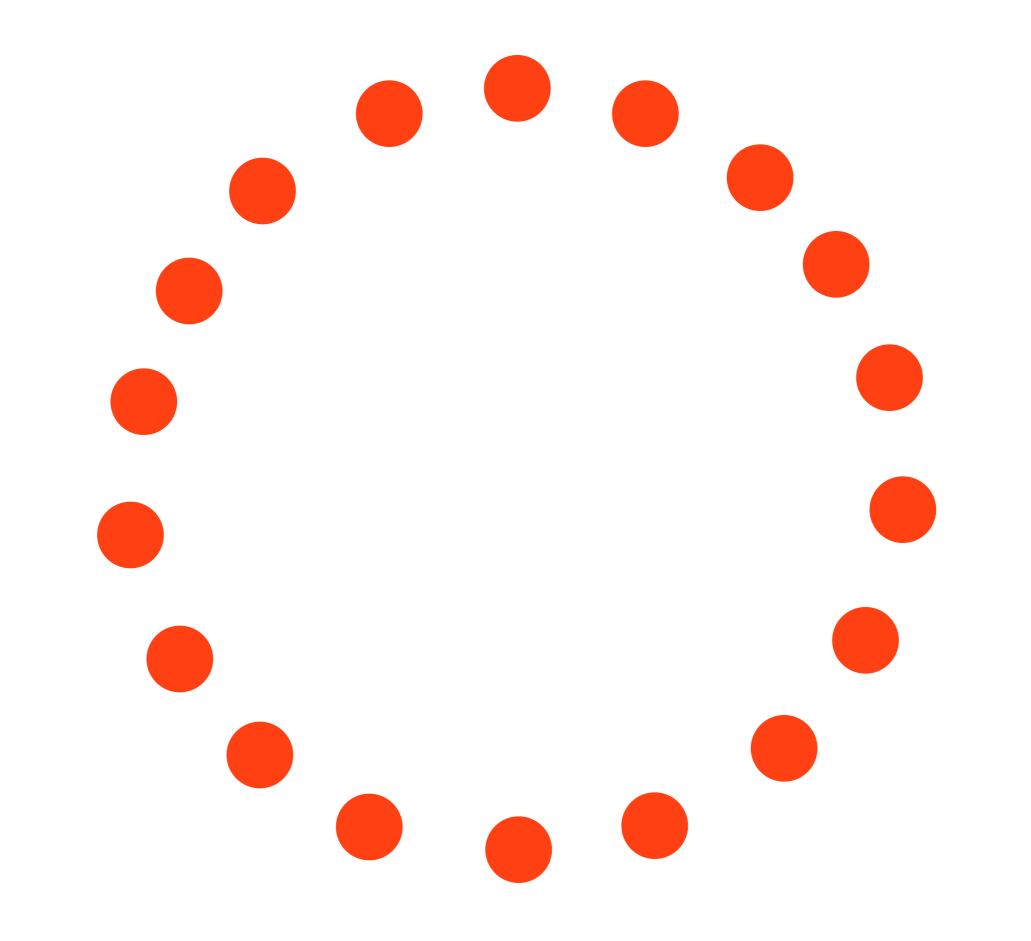
matt.might.net/articles/my-sons-killer/ ~

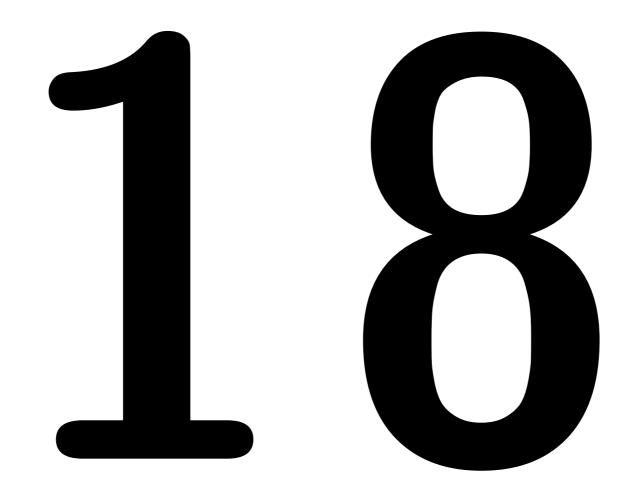
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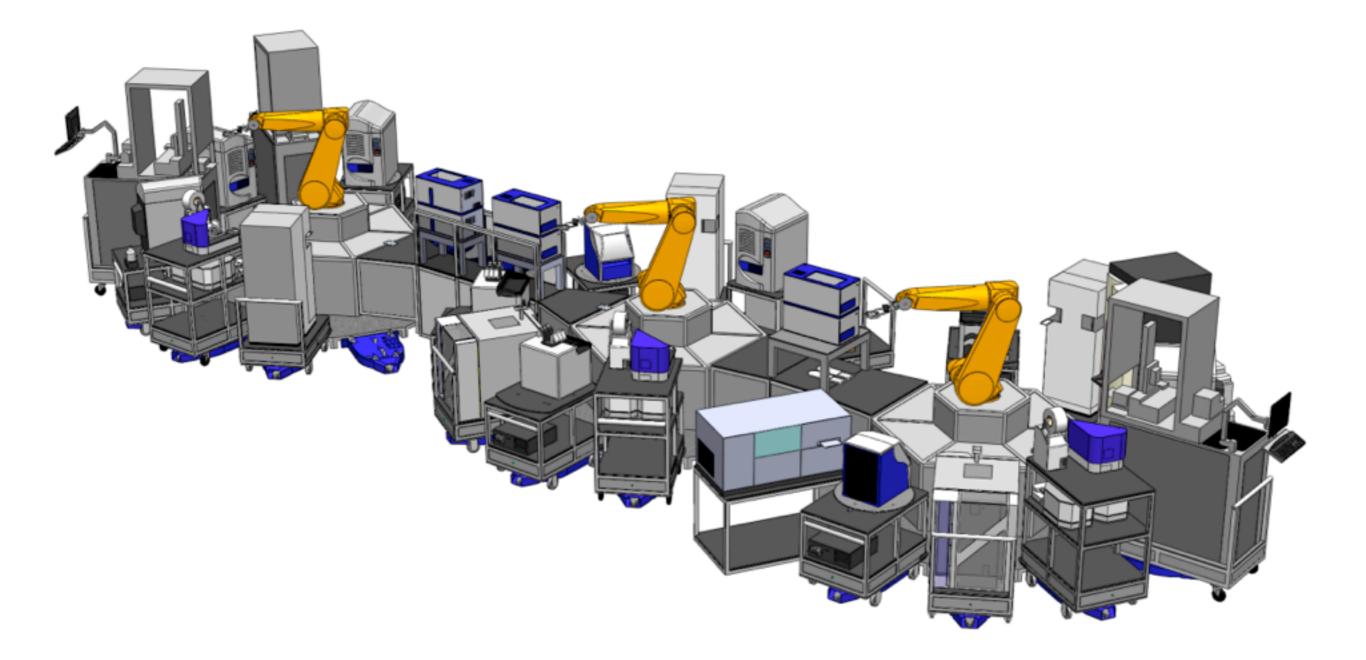


For patients, functional studies beat case-finding!



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Source: Hudson Freeze



Animal models



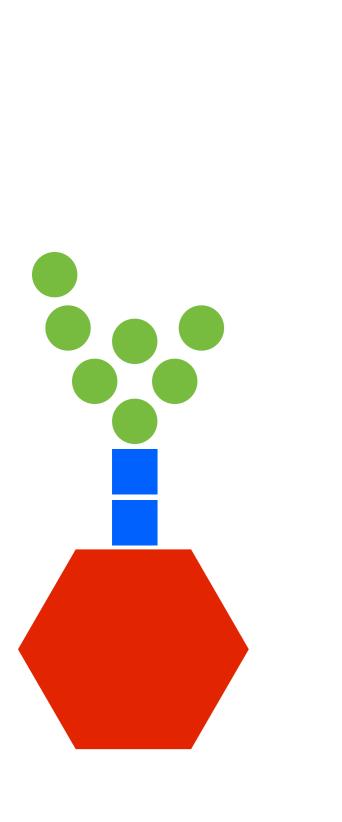


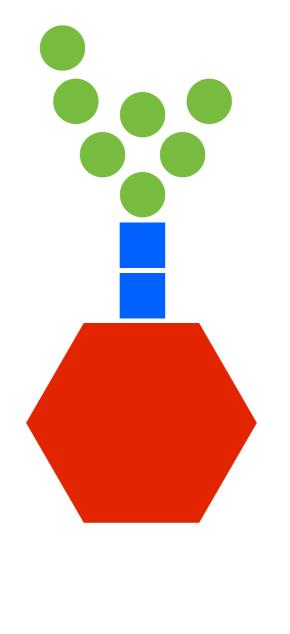


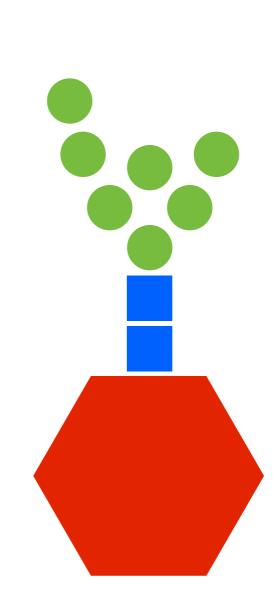


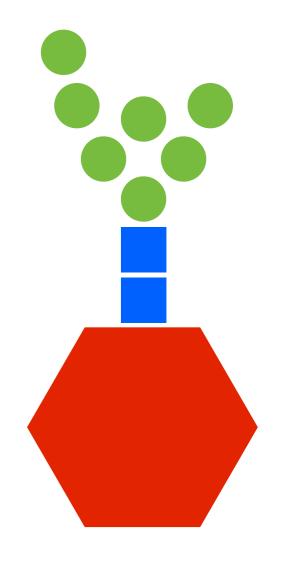


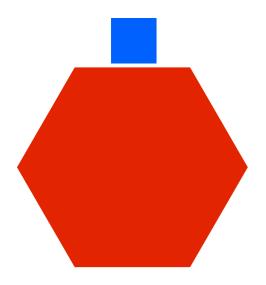
Basic science

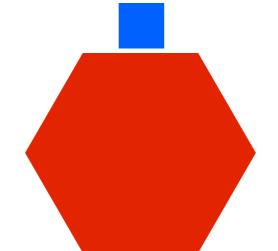




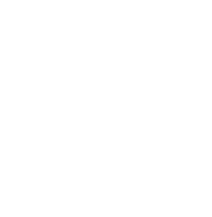


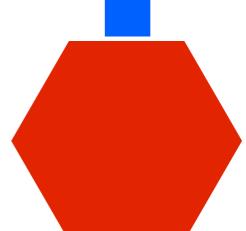


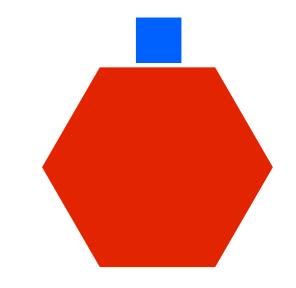


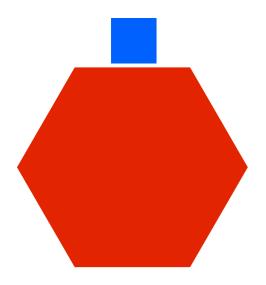


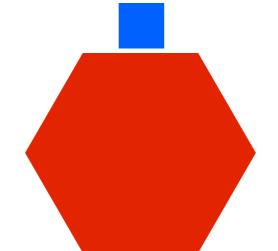




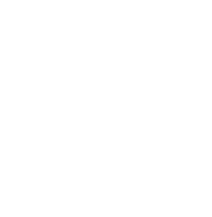


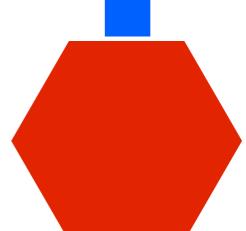


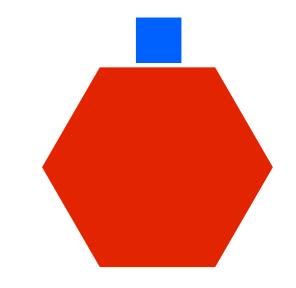




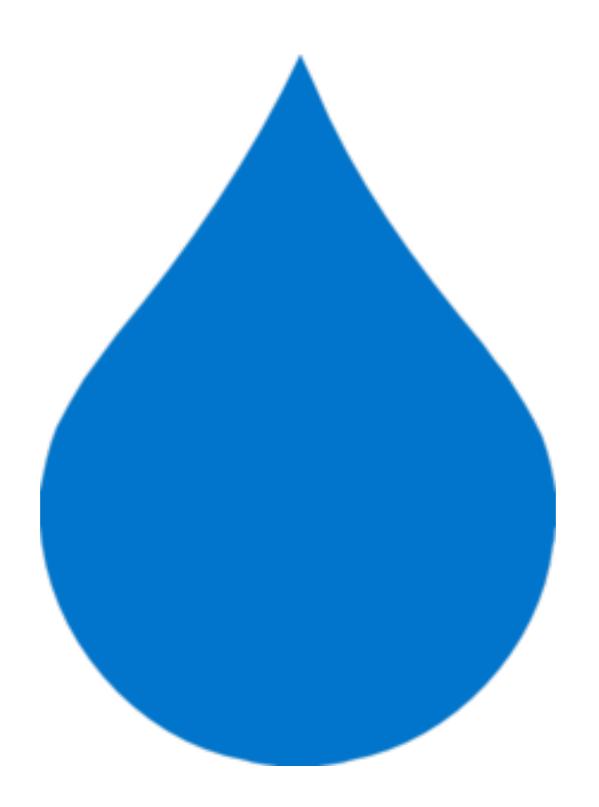














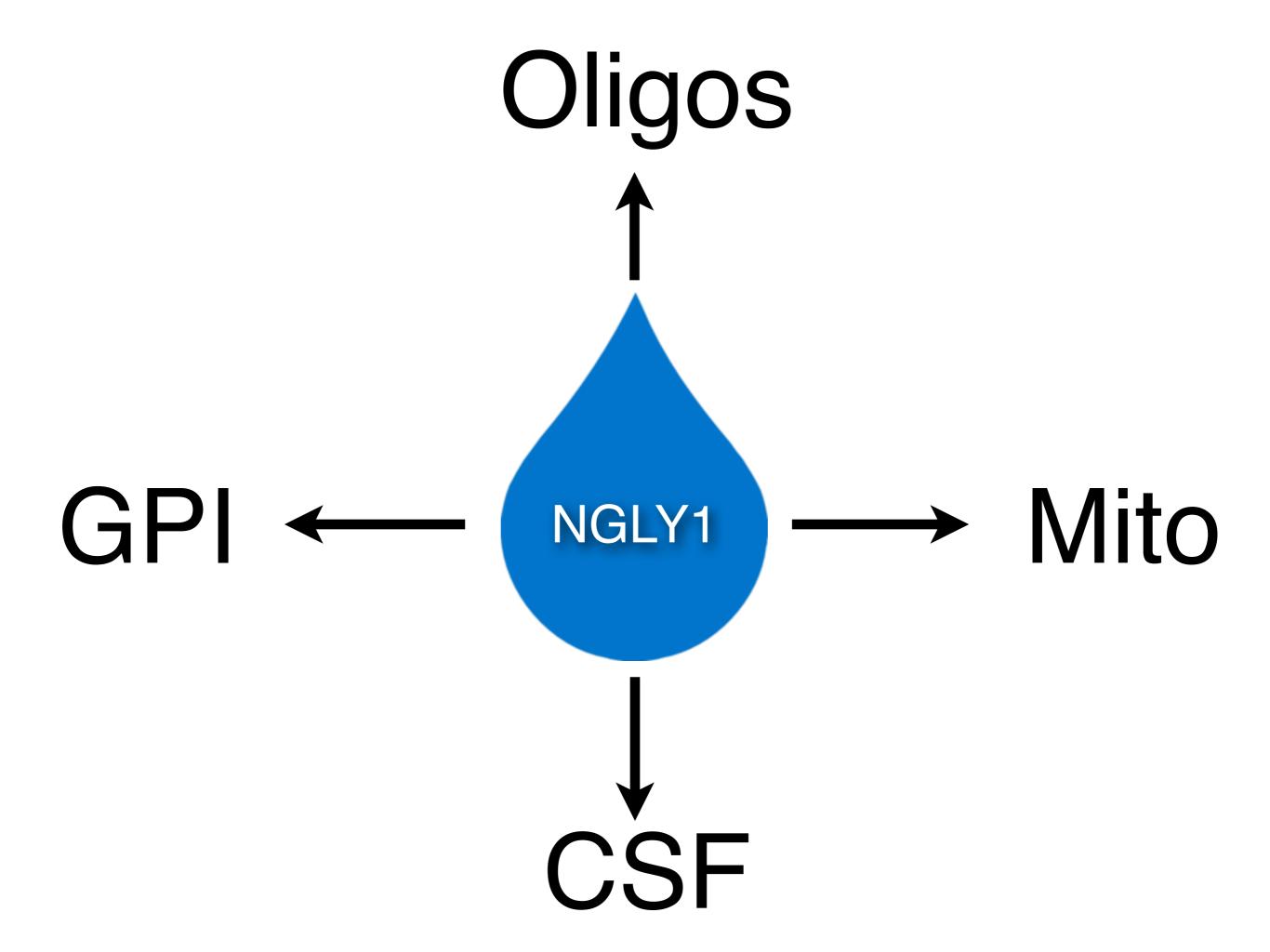




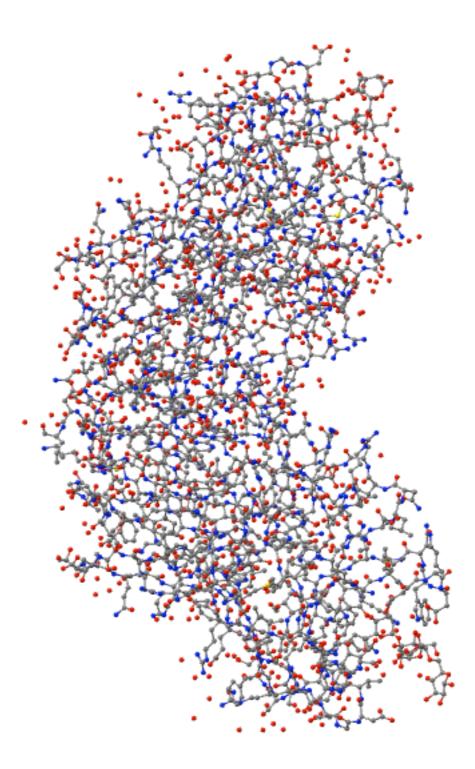
National Institutes of Health

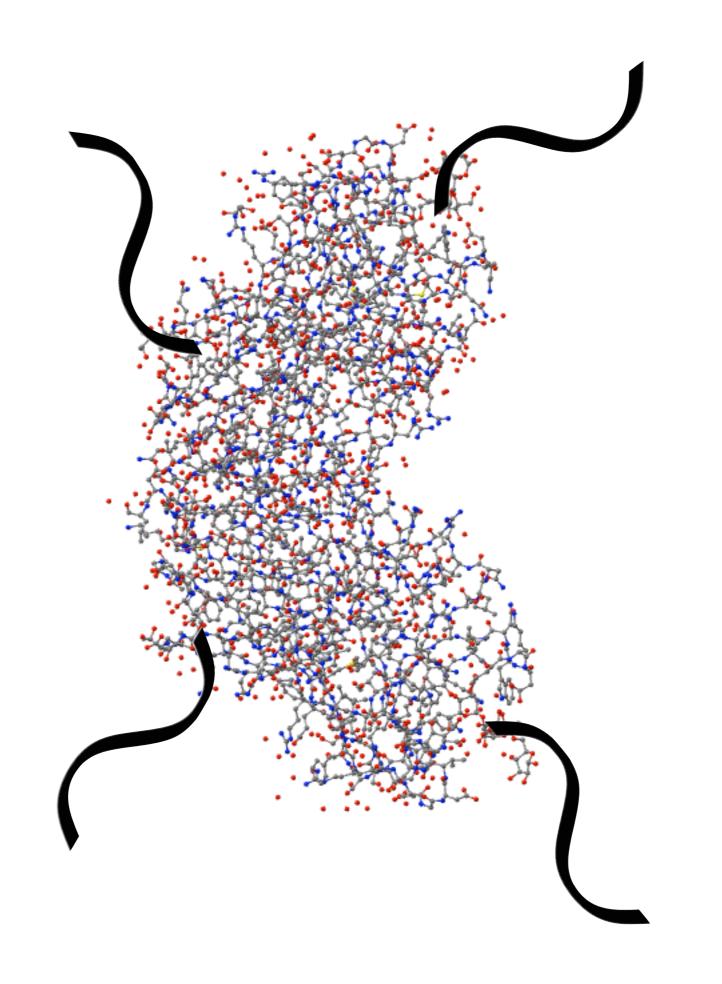
CDG Protocol

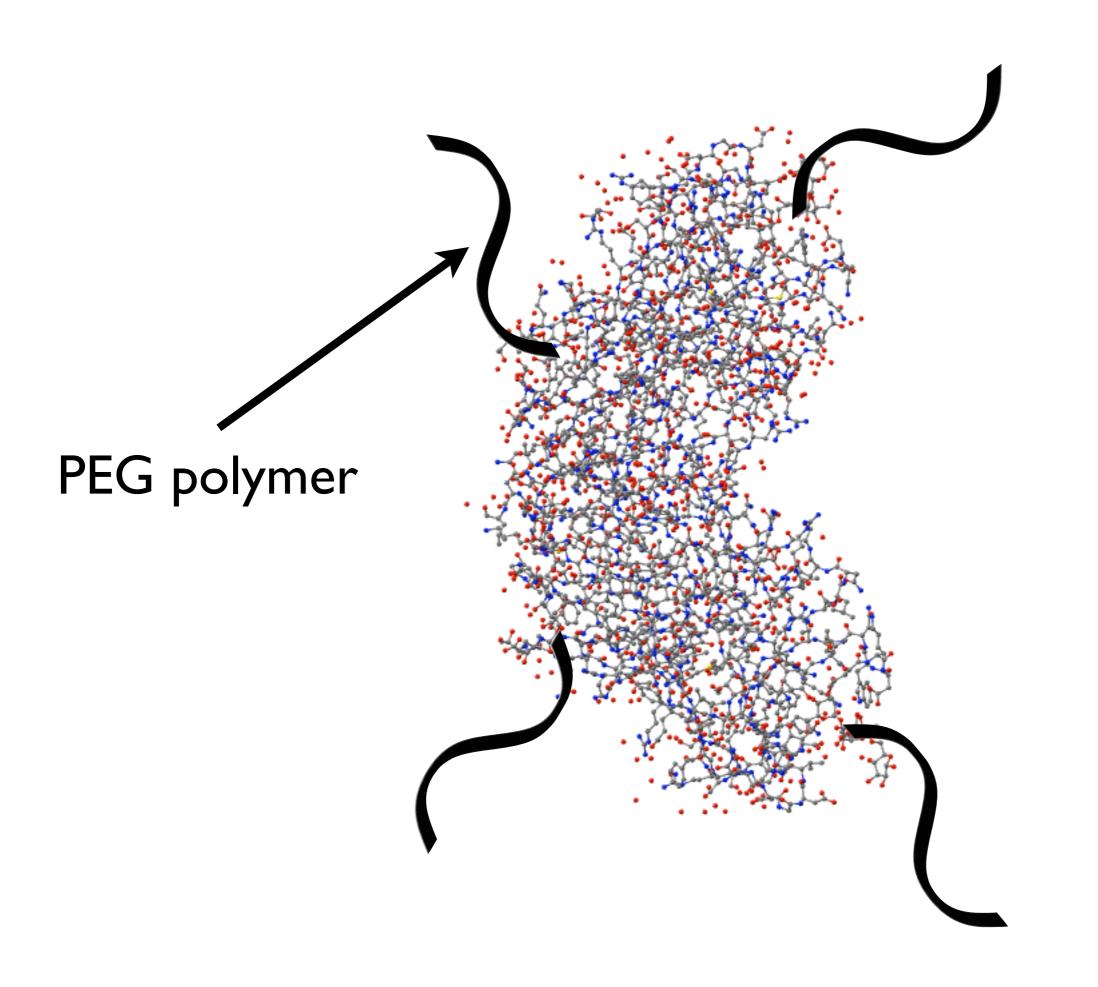


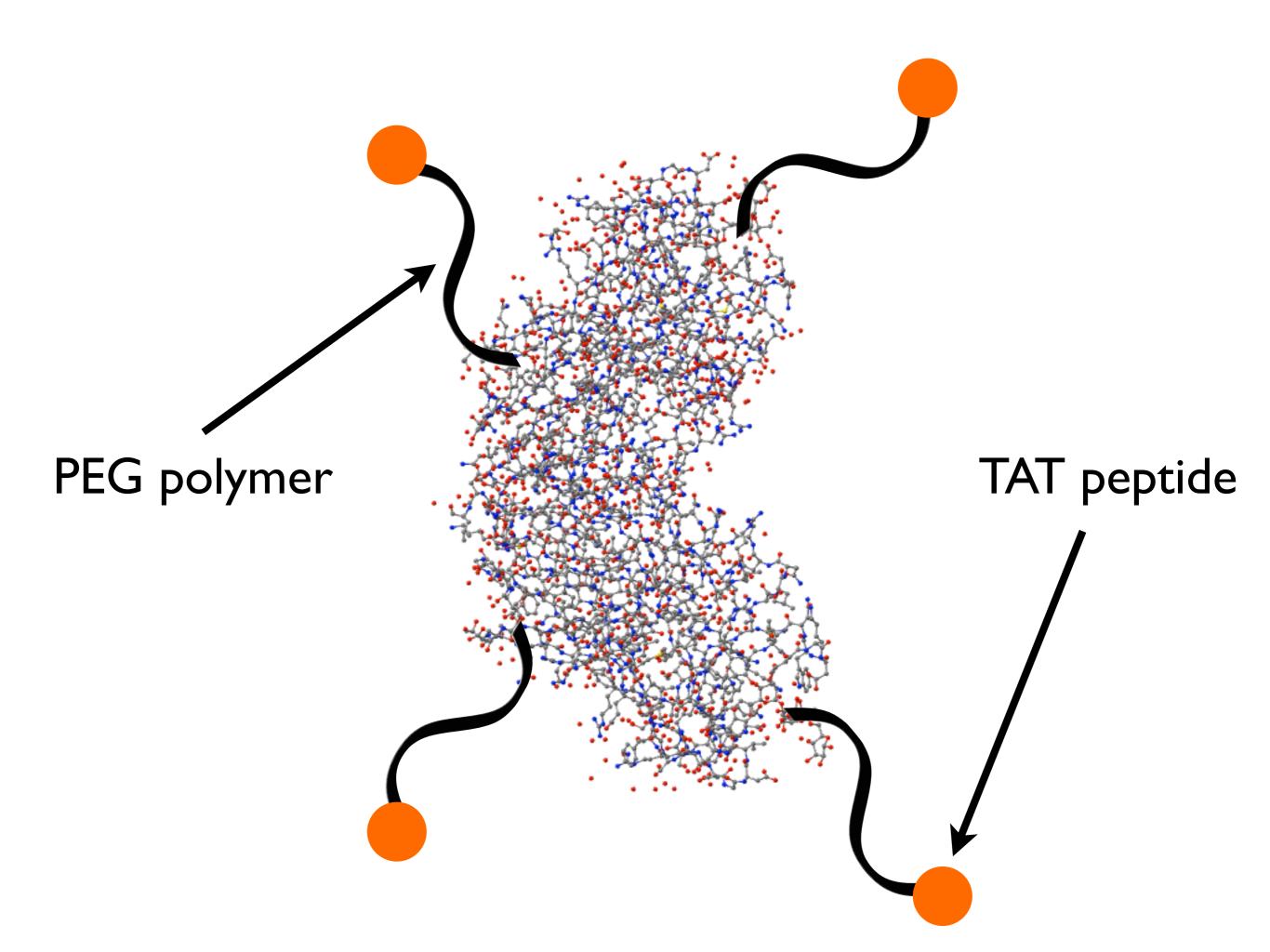


Enzyme replacement









Replicable?



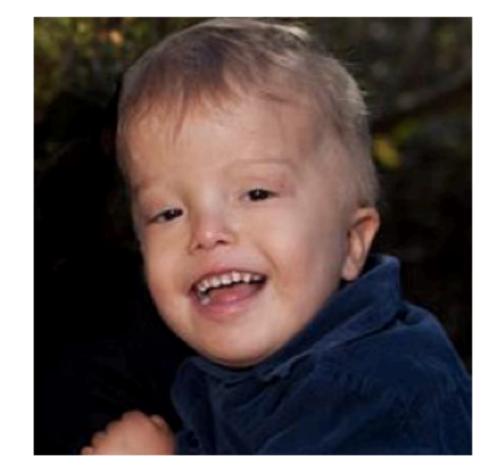
HOME ABOUT MILO MEDICAL BLOG PHOTOS CONTACT $M_3 I_1 L_1 O_1 I_1 S_1 J_8 O_1 U_1 R_1 N_1 E_1 Y_4$ looking for companions

Reaching out

This page is for parents, doctors, or researchers who may know of other children like our son, Milo. If you know of a similar case, please get in touch with us. The more cases we have, the more opportunities we will have to improve our understanding of his condition and facilitate research that can help him and others.

Find out more

- What this site is for
- Case study:



Finding others like our Milo

Currently, at age 3, Milo's primary challenges are global developmental delay and significant hypotonia. He has had surgical repairs for a minor cleft in his soft palate, for ptosis, for C1 stenosis, for a tethered

De novo gain of function in Gene X



Google Search

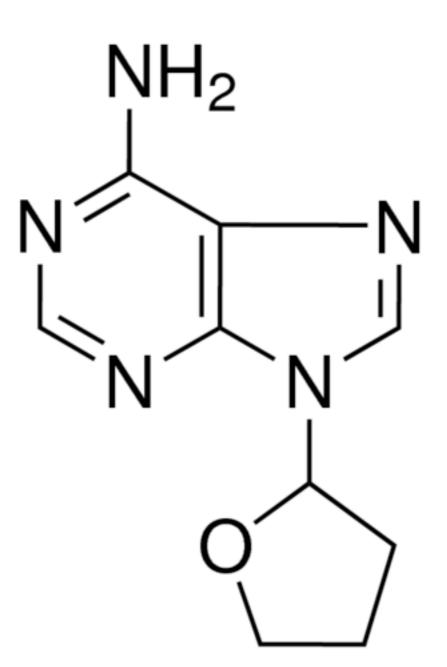
I'm Feeling Lucky



Gene X inhibitor

Google Search

I'm Feeling Lucky



Gene X inhibitor

What do patients need?

"next step"



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Ö

NGLY1

From Wikipedia, the free encyclopedia

Peptide-N(4)-(N-acetyl-beta-glucosaminyl)asparagine amidase is an enzyme that in humans is encoded by the NGLY1 gene.[1]

Contents [hide]
1 Function
2 Clinical significance
3 References
4 Further reading

Function [edit]

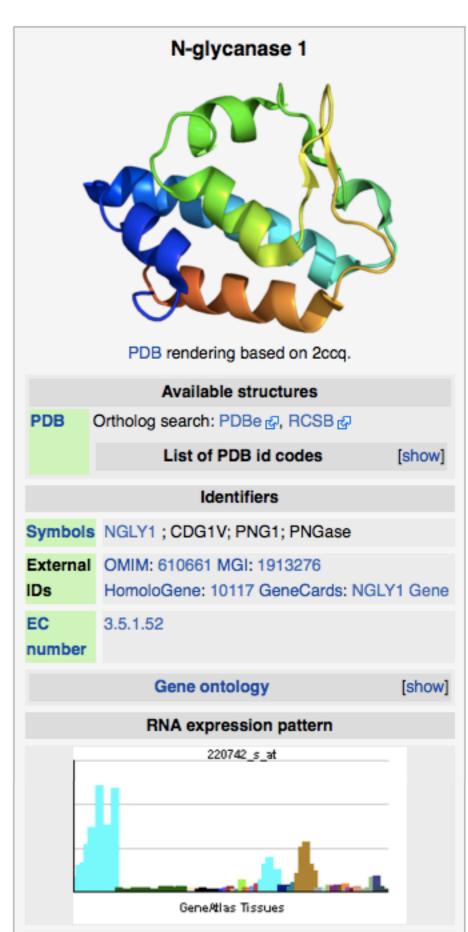
This gene encodes an enzyme that catalyzes hydrolysis of an N(4)-(acetylbeta-D-glucosaminyl) asparagine residue to N-acetyl-beta-Dglucosaminylamine and a peptide containing an aspartate residue. The encoded enzyme may play a role in the proteasome-mediated degradation of misfolded glycoproteins.^[1]

Clinical significance [edit]

In 2012, by means of exome sequencing it was determined that a genetic mutation of the NGLY1 gene, resulting in inability to synthesise this enzyme, is the cause of an extremely rare congenital disorder of glycosylation variant.^[2]

In 2014, a study of eight recently discovered patients with mutations in the NGLY1 gene established a phenotype for NGLY1 deficiency.^[3] NGLY1 deficiency is characterized by global developmental delay (often severe), neurological impairment, movement disorder and hypotonia. Almost all patients have difficulty producing tears and present abnormally on EEGs.

The site ngly1.org reserves as a hub for N-Glycanase deficient patients. The Grace Wilsey Foundation (gracewilsey.org) & has been established to raise awareness and support research.



How to create a web site

What information to share

All variants

HPO

PPO

Parent Phenotyping Ontology



Google Search



alacrima

Google Search

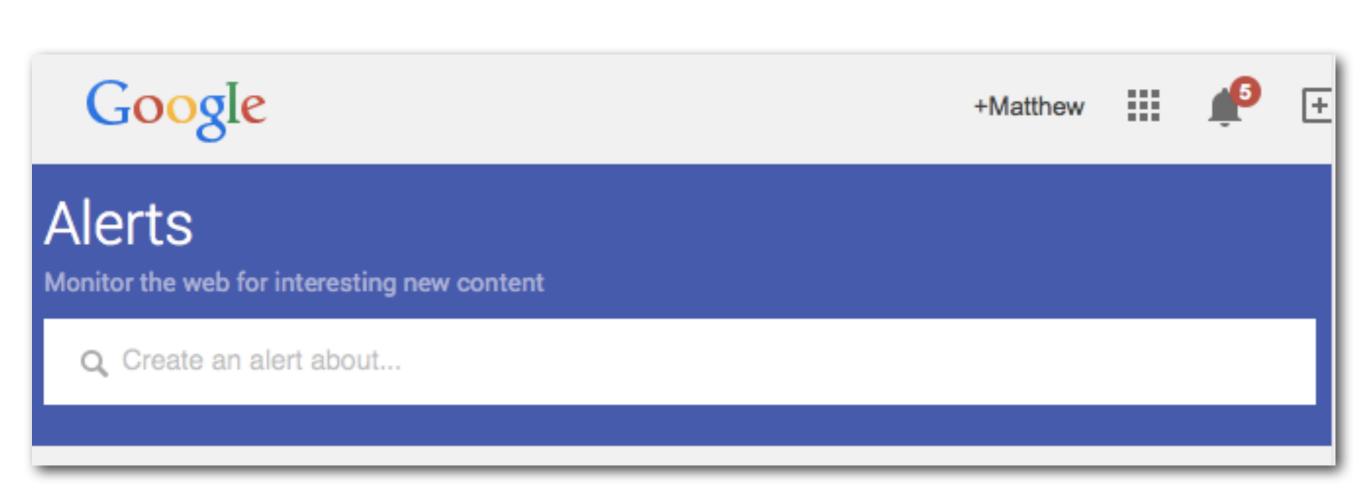


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why does my child have no tears?

Google Search



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Thank you!

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