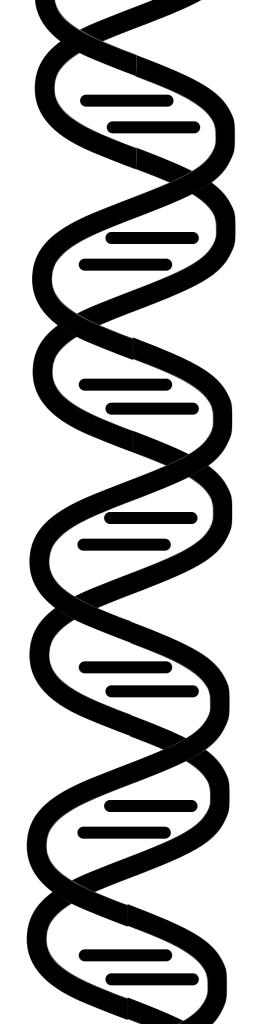
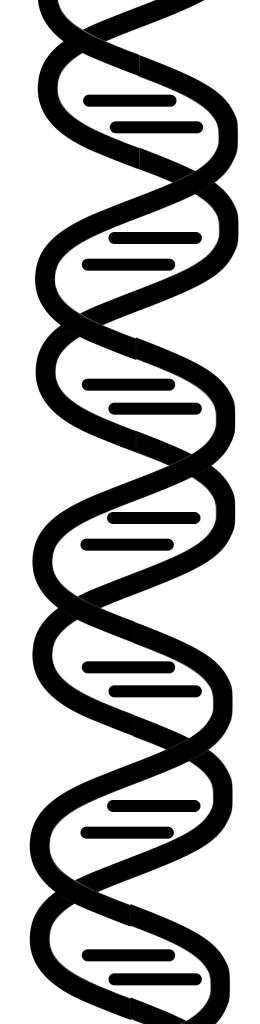
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Partners in
Research: Parents
Accelerating Rare
Disease Discoveries

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Matt Might, Dad







Human genome

Rare disease

Curing cancer

Grand Challenge

Grand Challenge

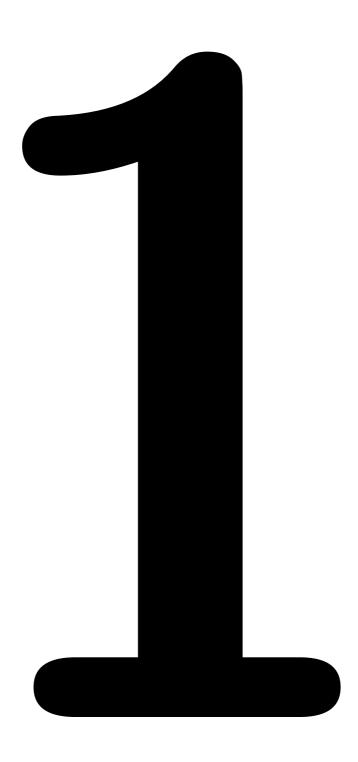
Grand Challenge

Grand Challenge

Sanford Burnham Medical Research Institute

Human genome

20,000

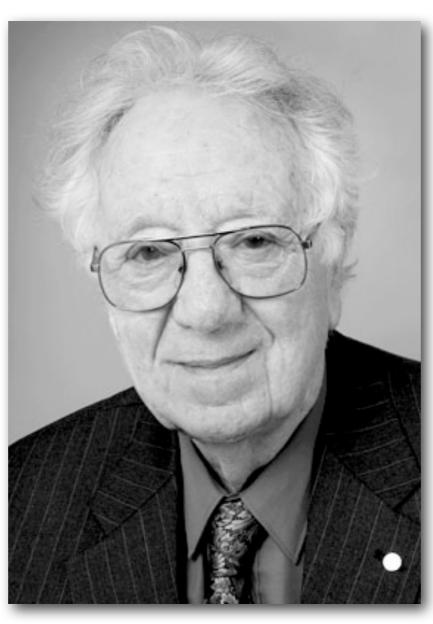




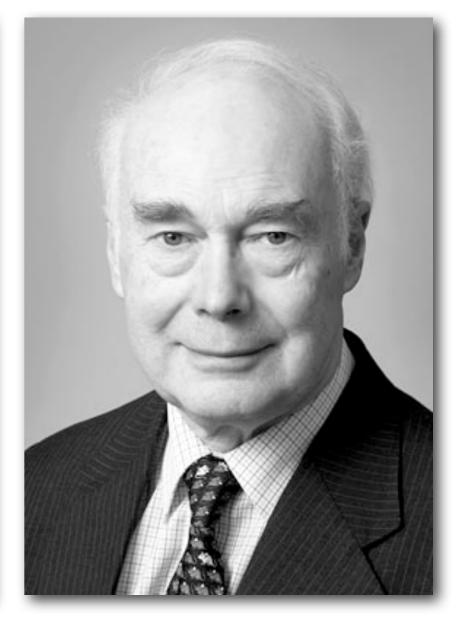




Mario Capecchi



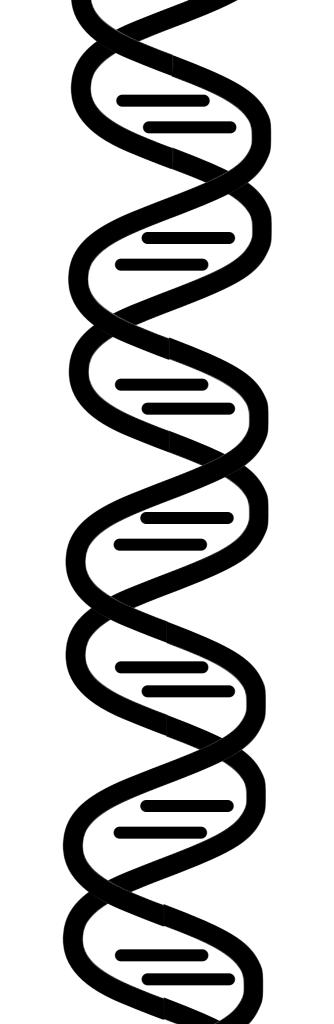
Oliver Smithies

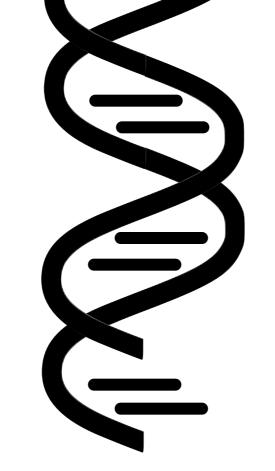


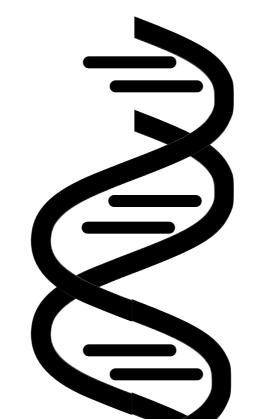
Martin Evans

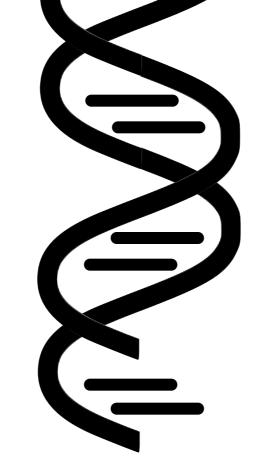
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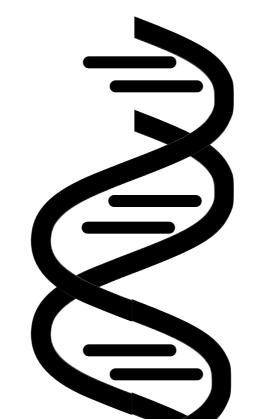


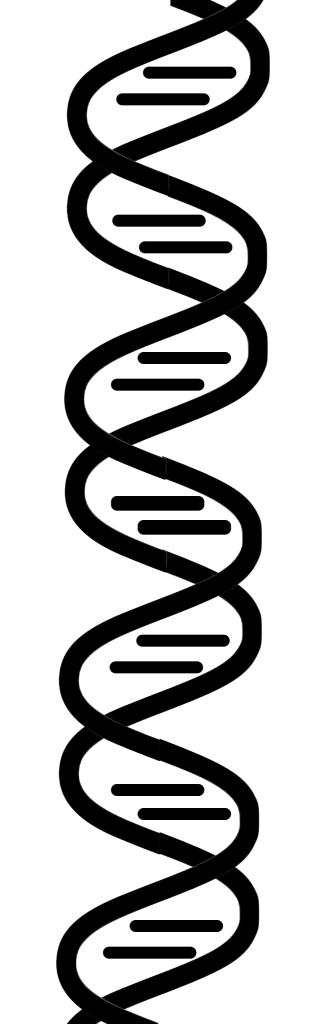










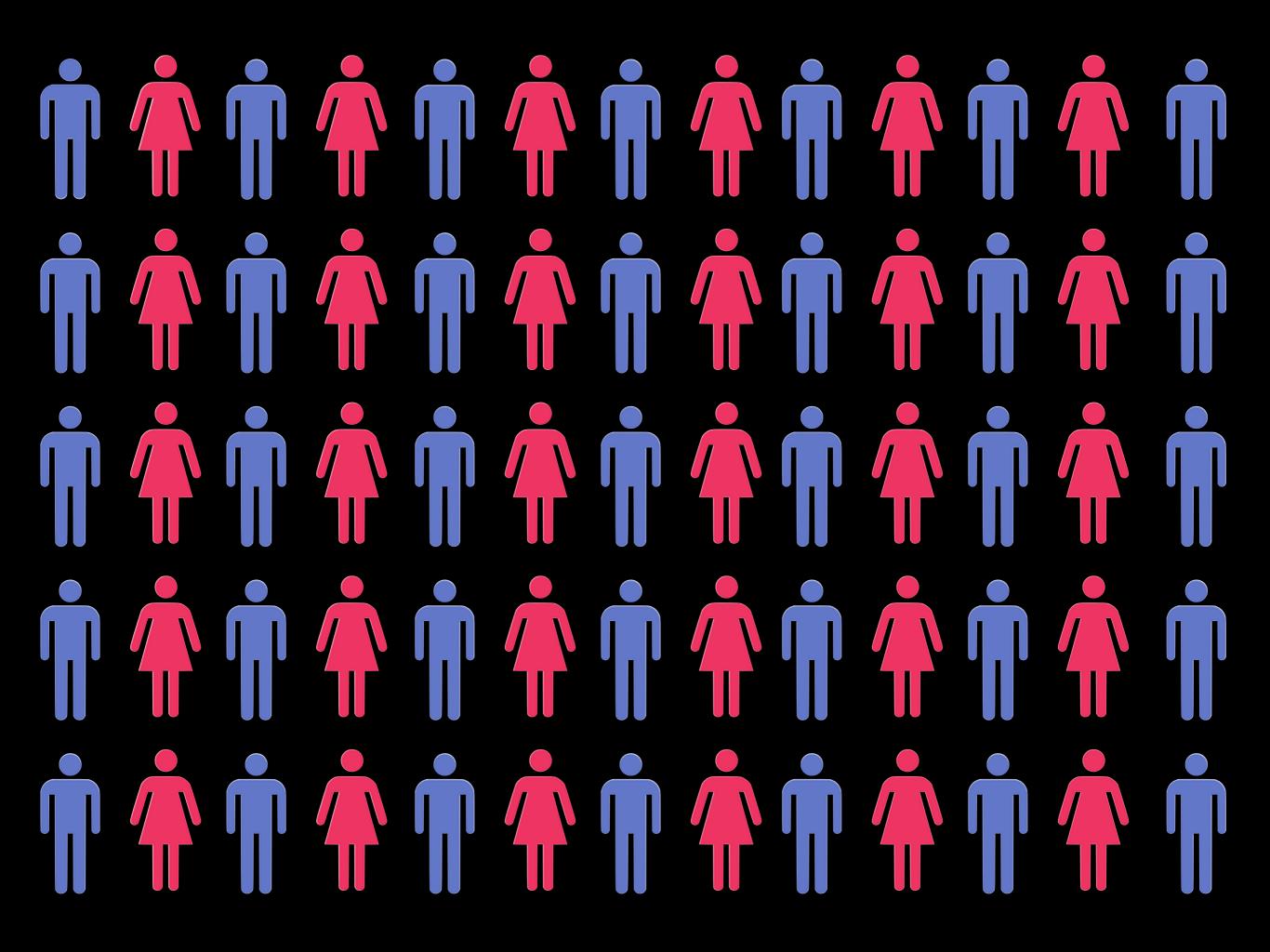


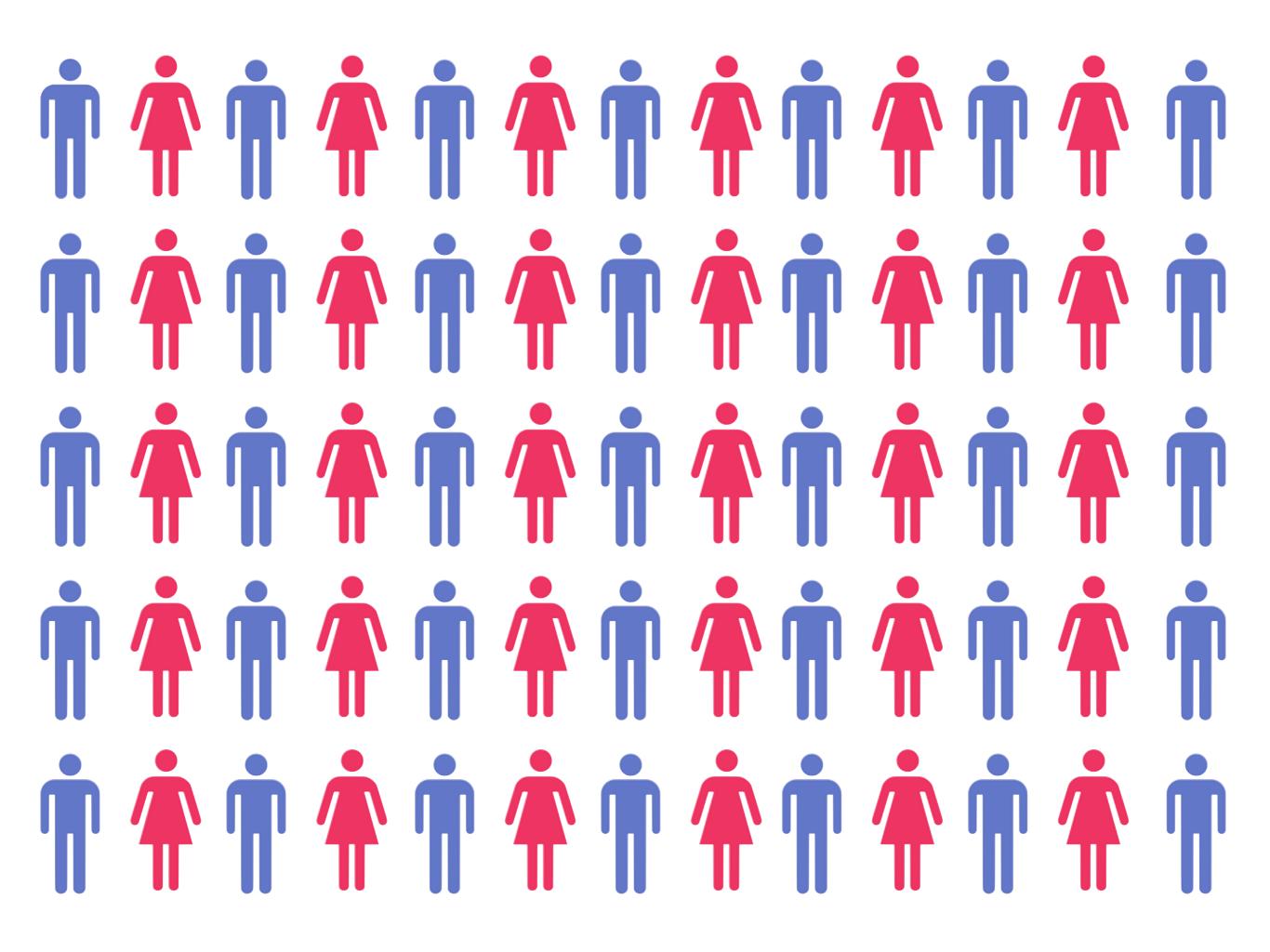


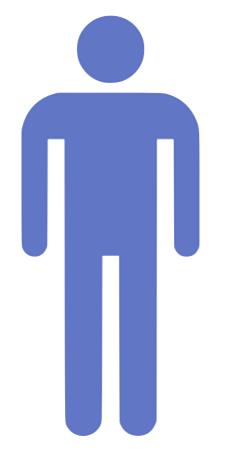


Knockout human?

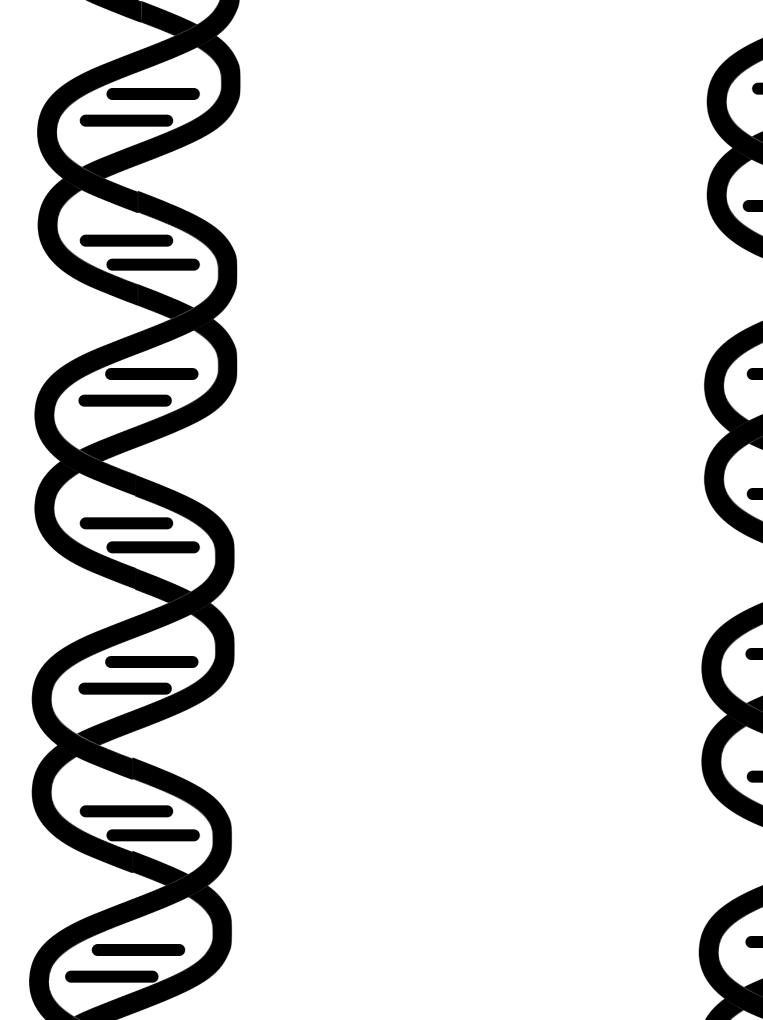


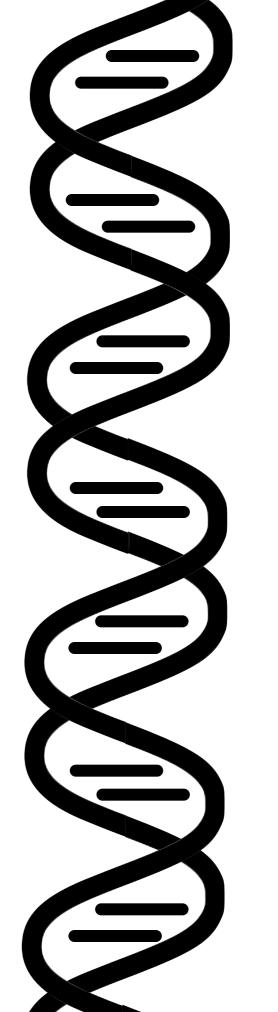


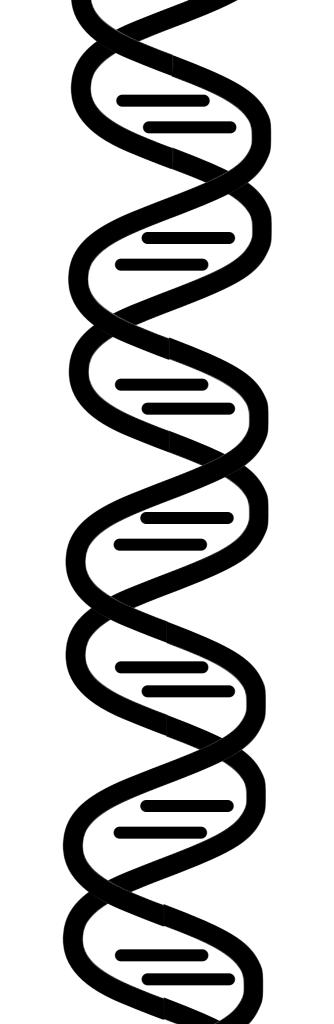




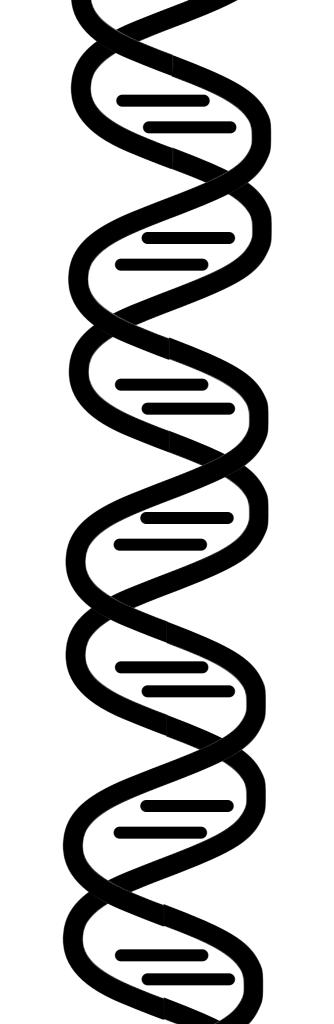


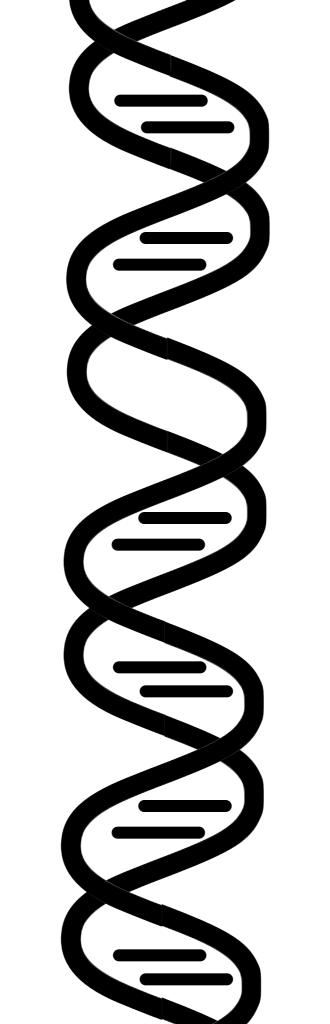


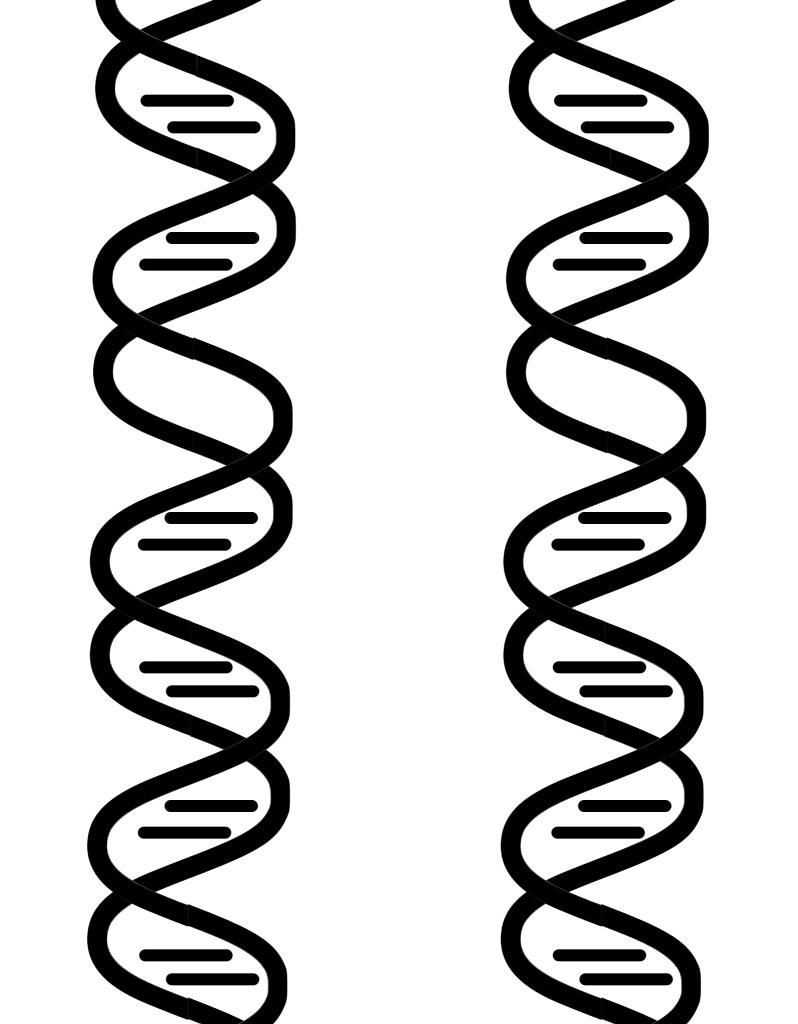
































Kids who don't cry: New genetic disorder discovered

By Jacque Wilson, CNN updated 2:53 PM EDT, Thu March 20, 2014



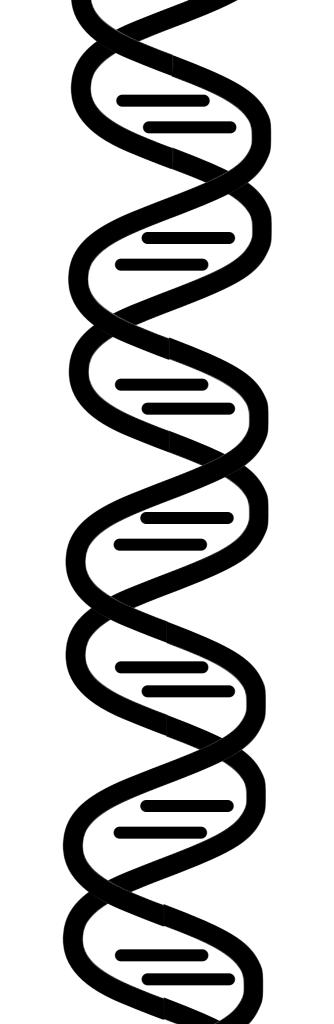


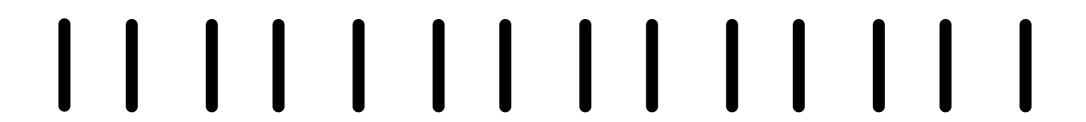


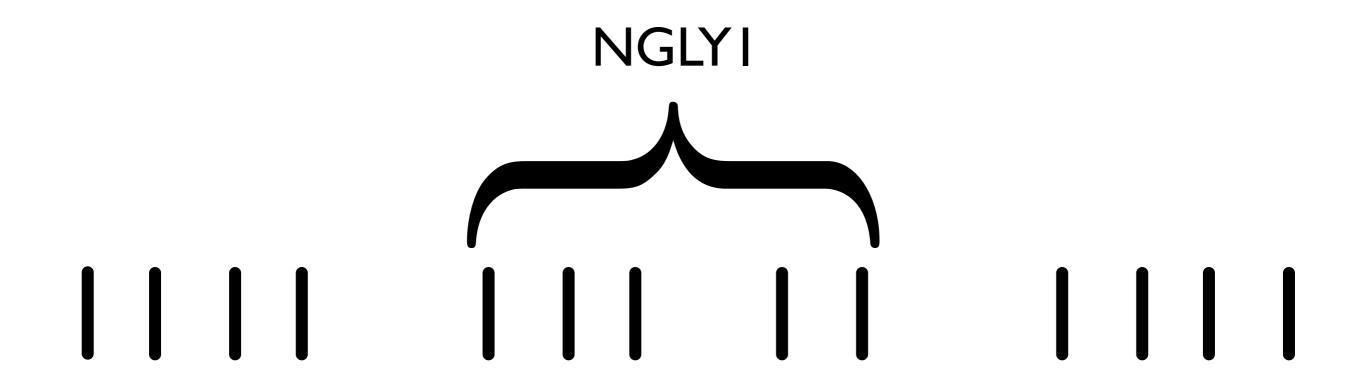


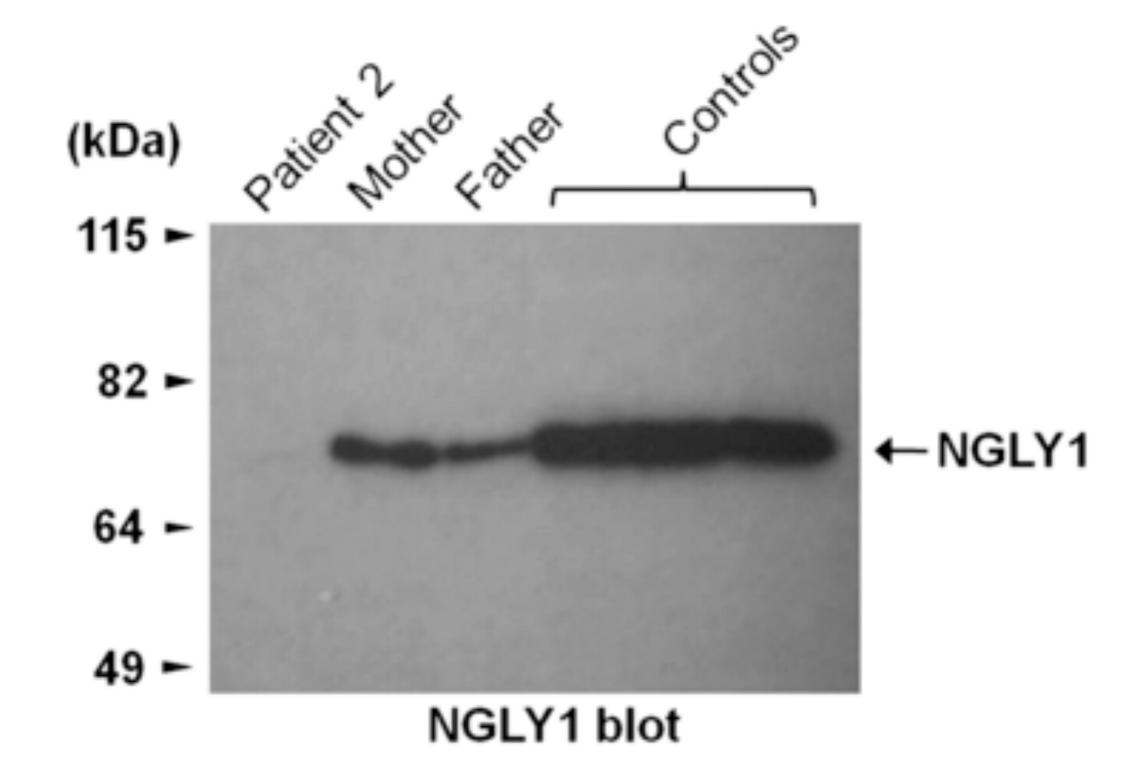


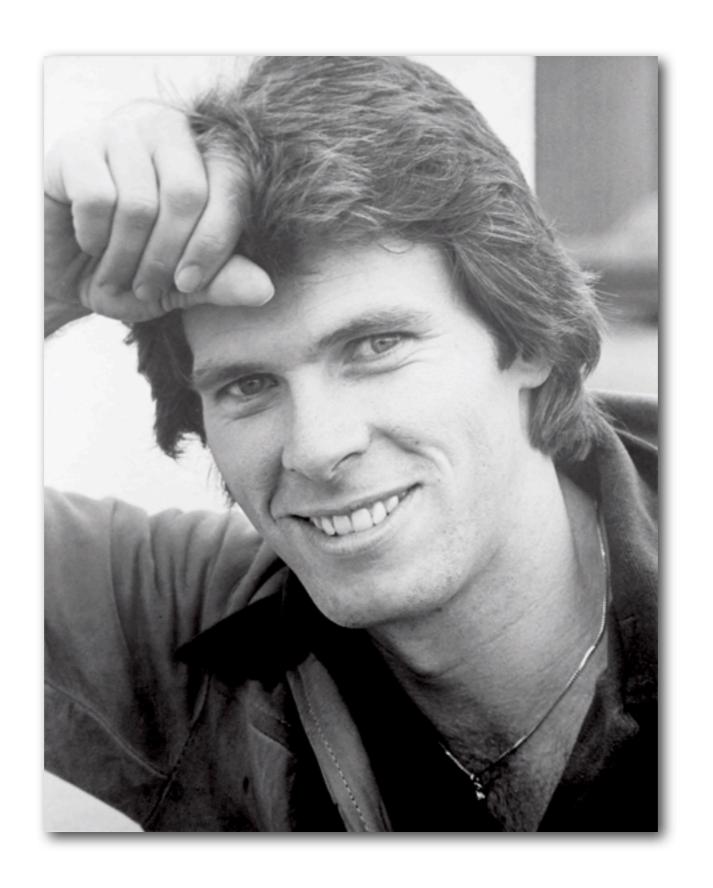


















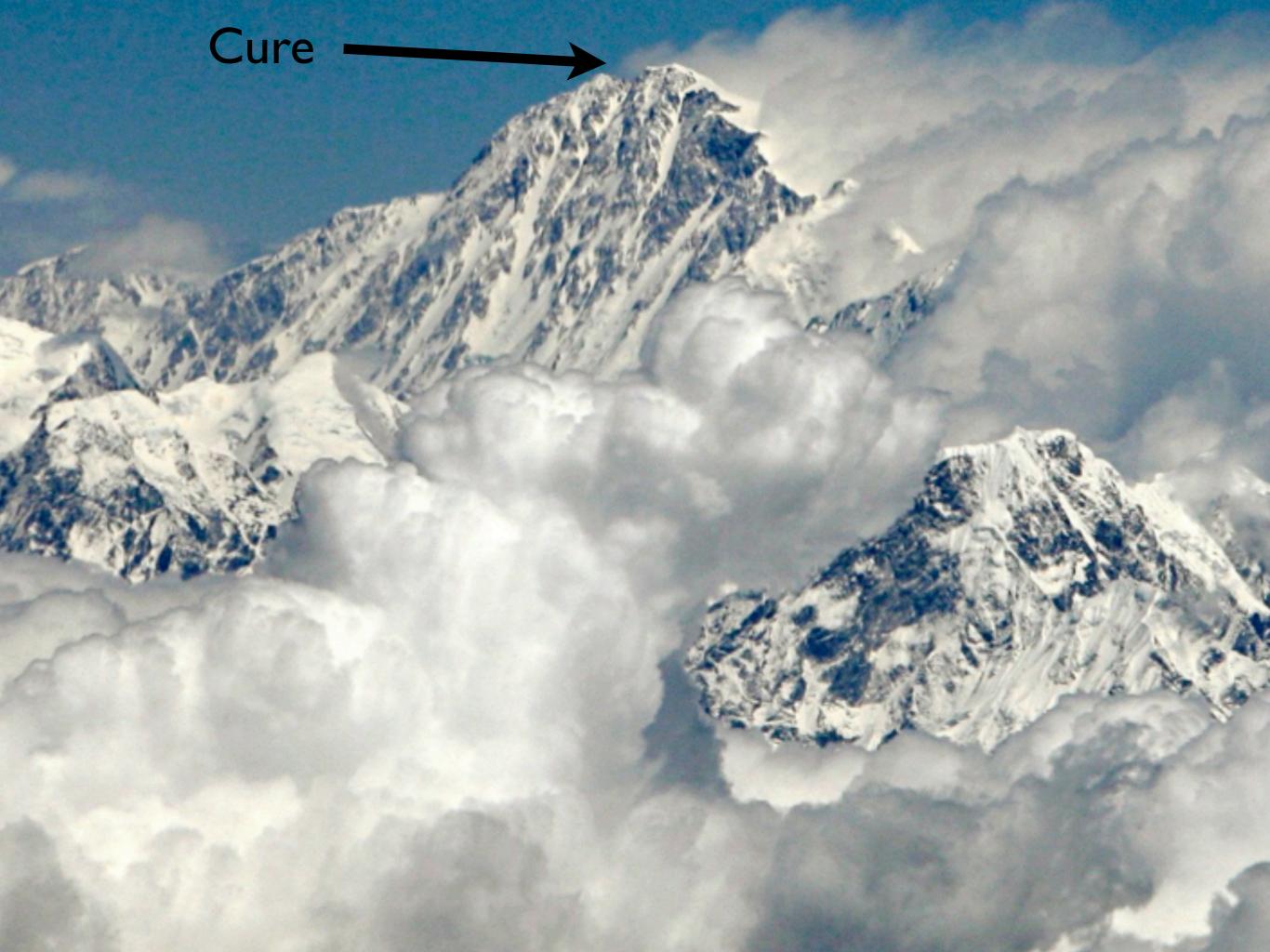


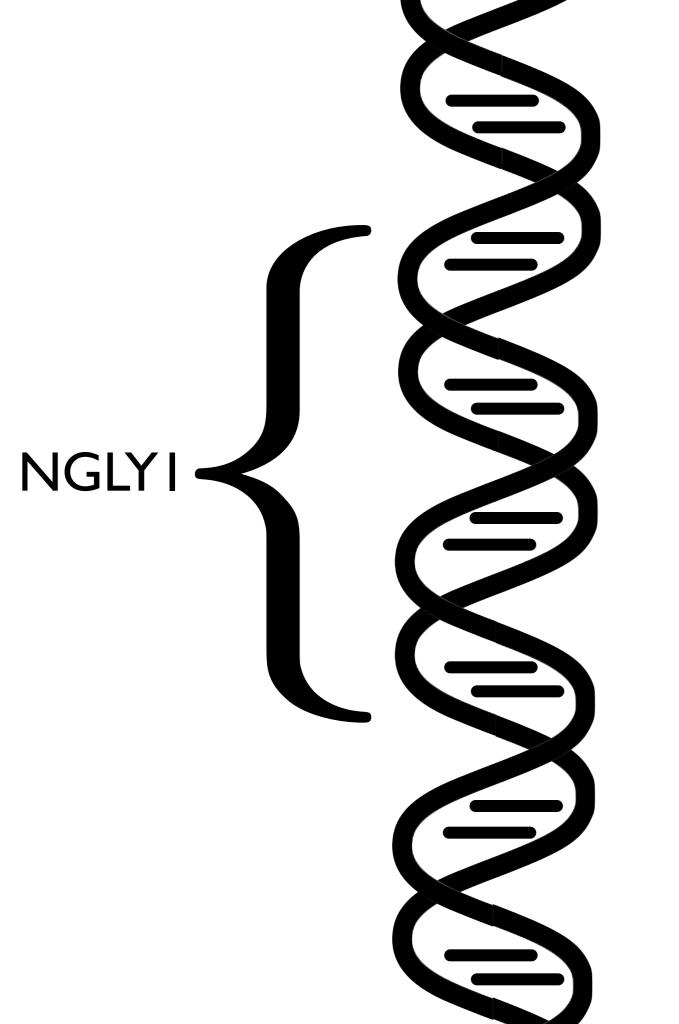


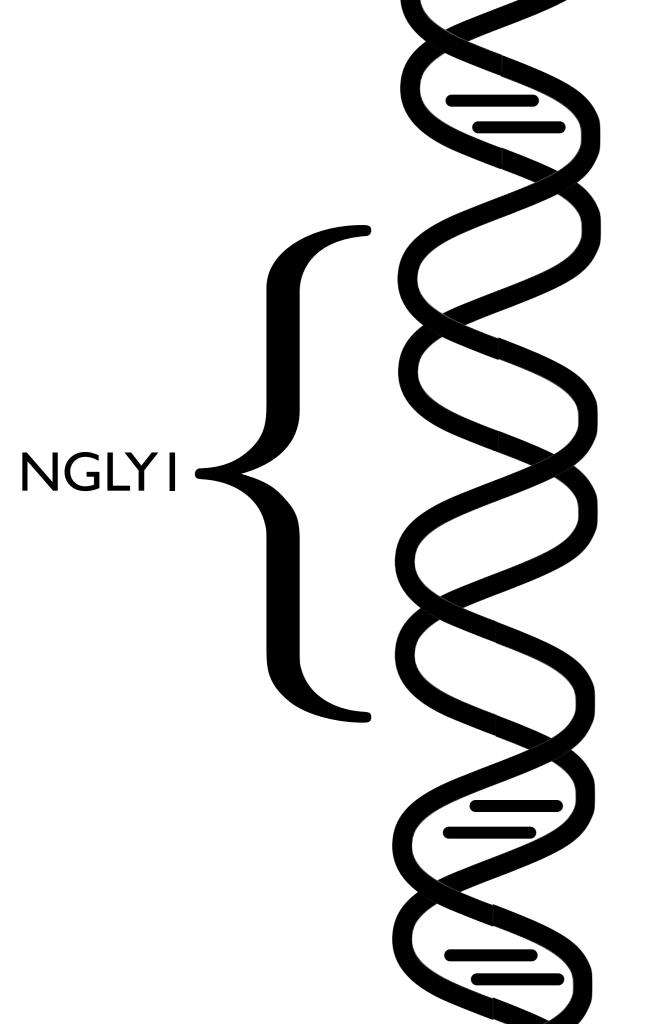


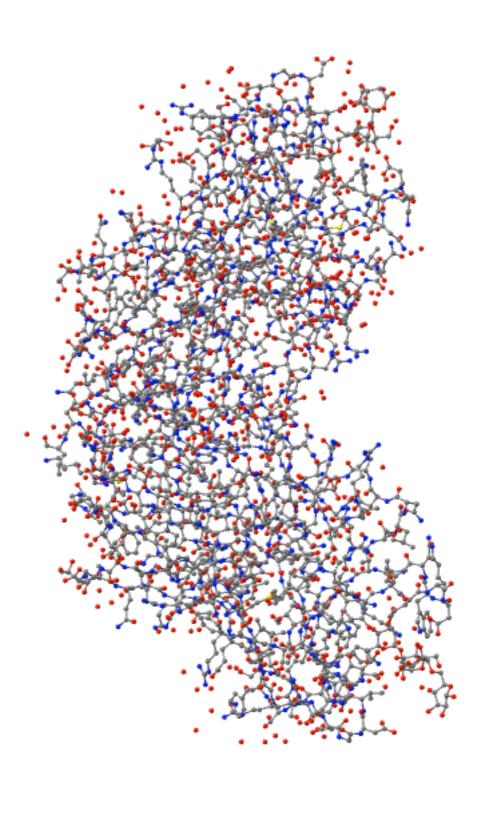


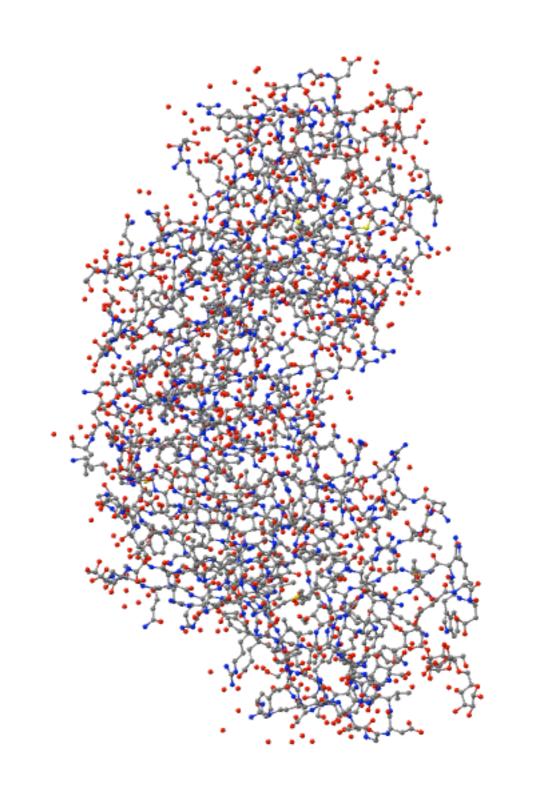


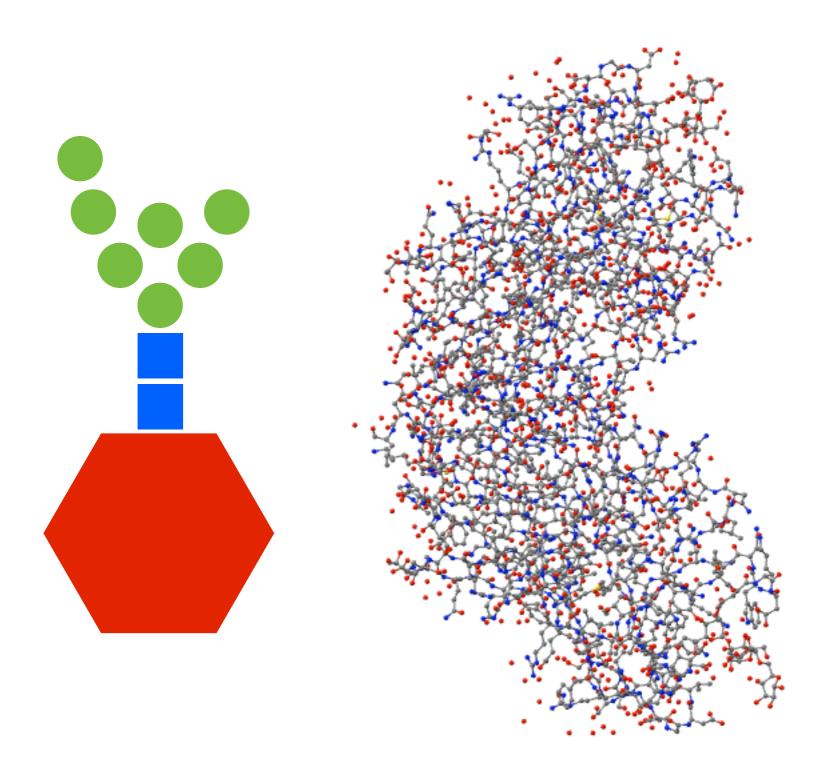


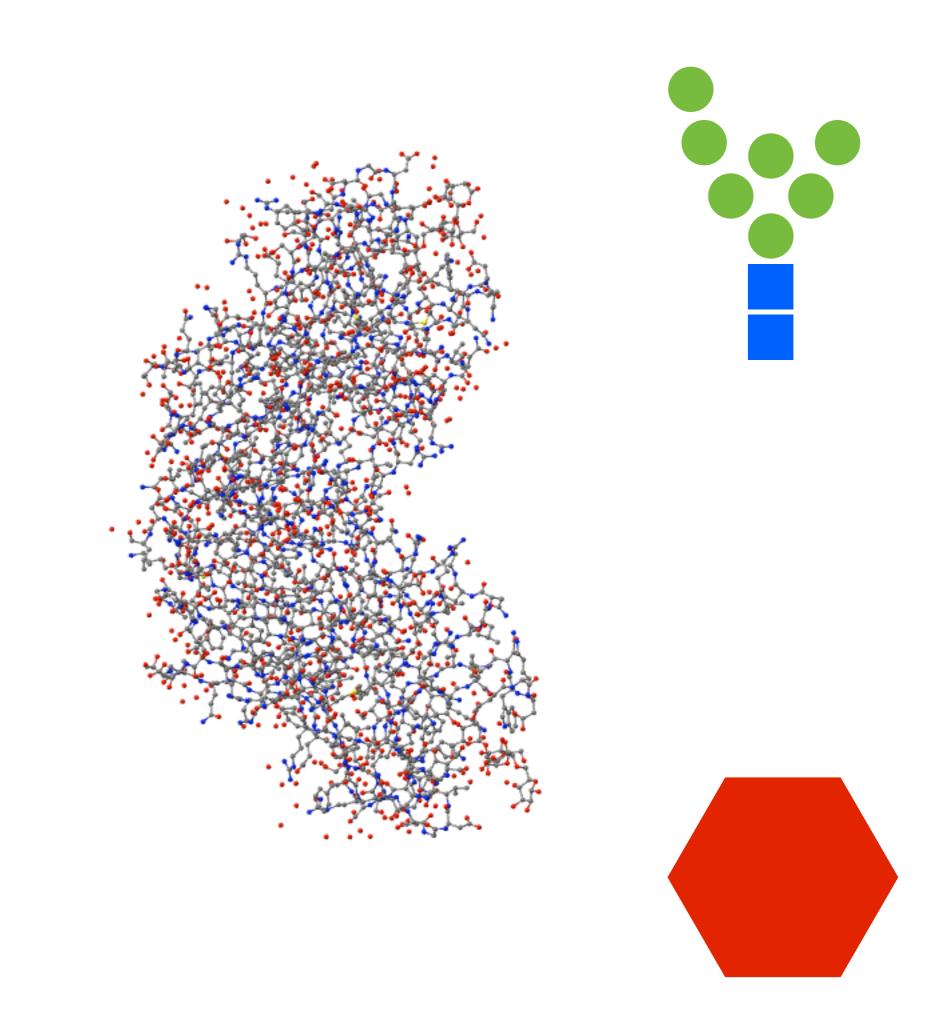


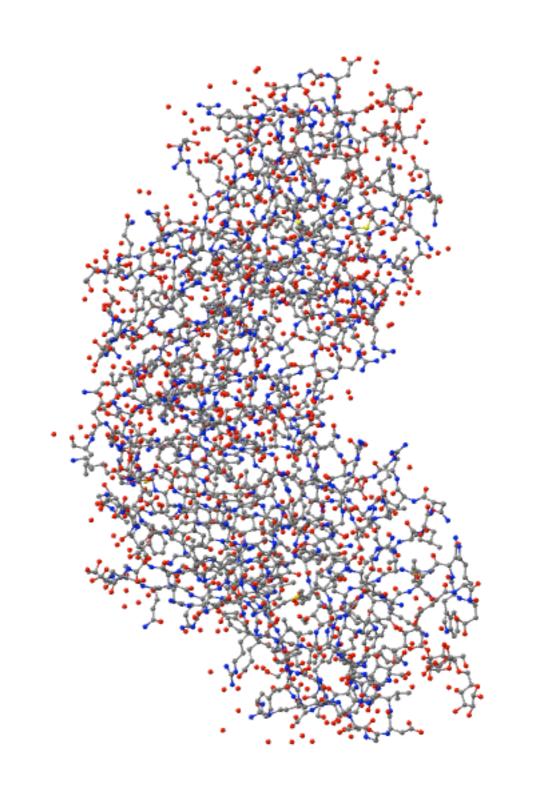


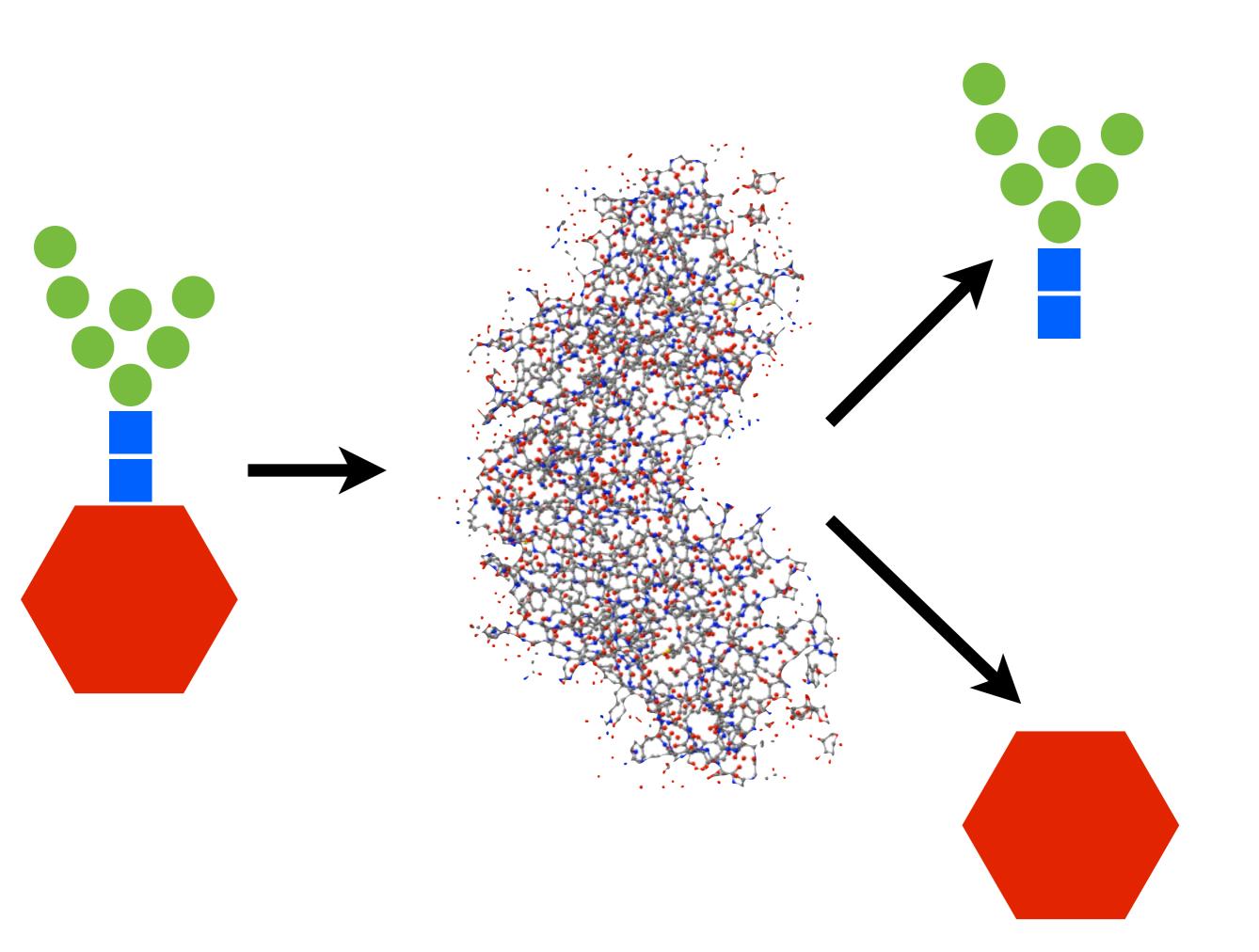


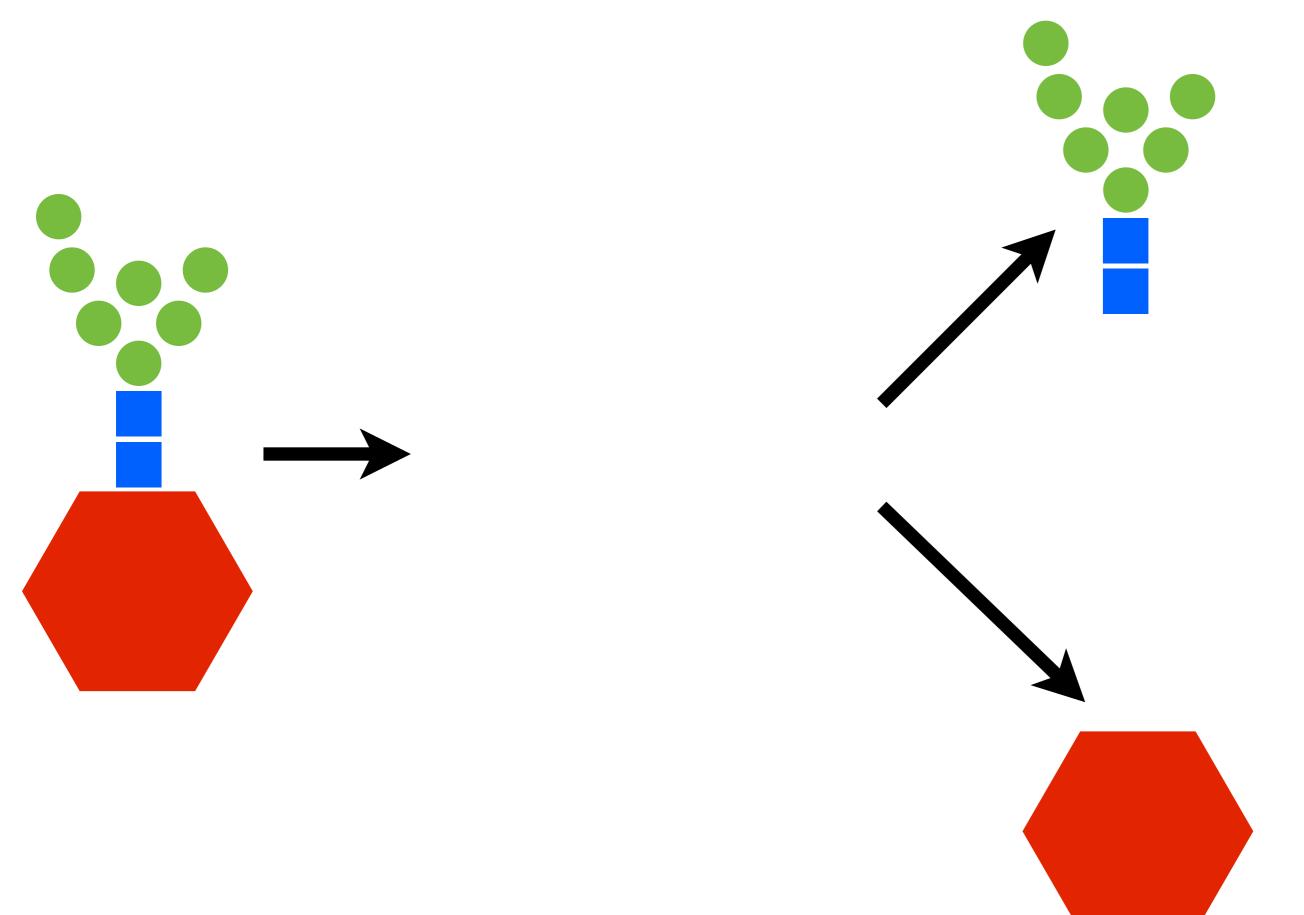


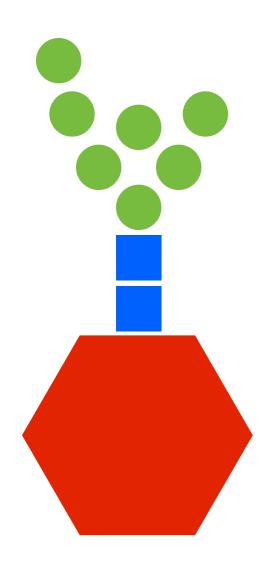


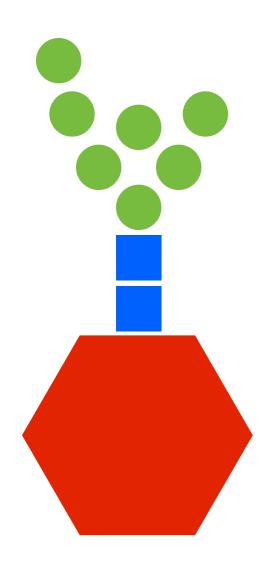


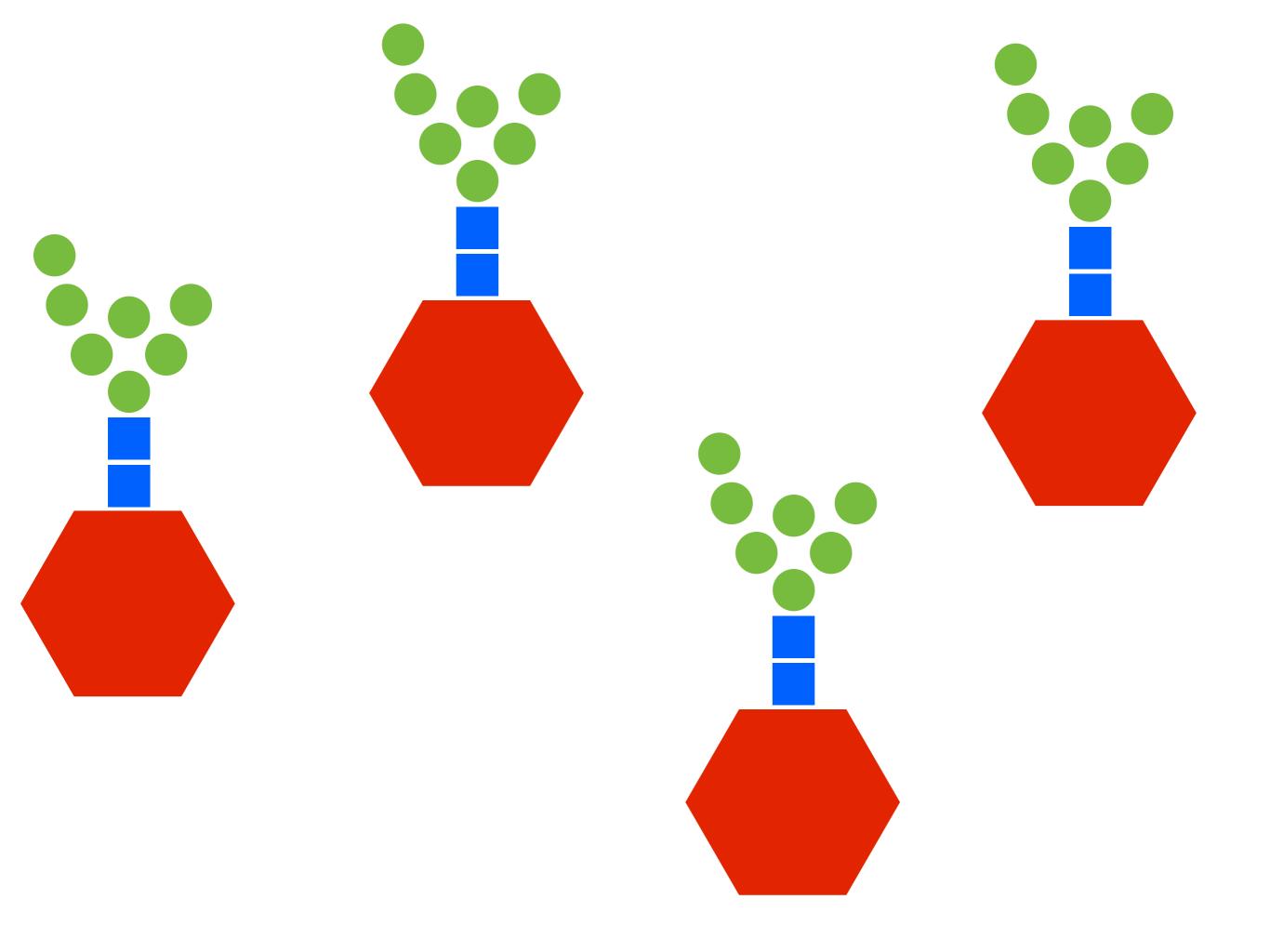












Hunting down my son's killer

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I found my son's killer.

It took three years.

But we did it.



Not quite like this.

2,000,000+

NGLY1

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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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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.

NGLY1

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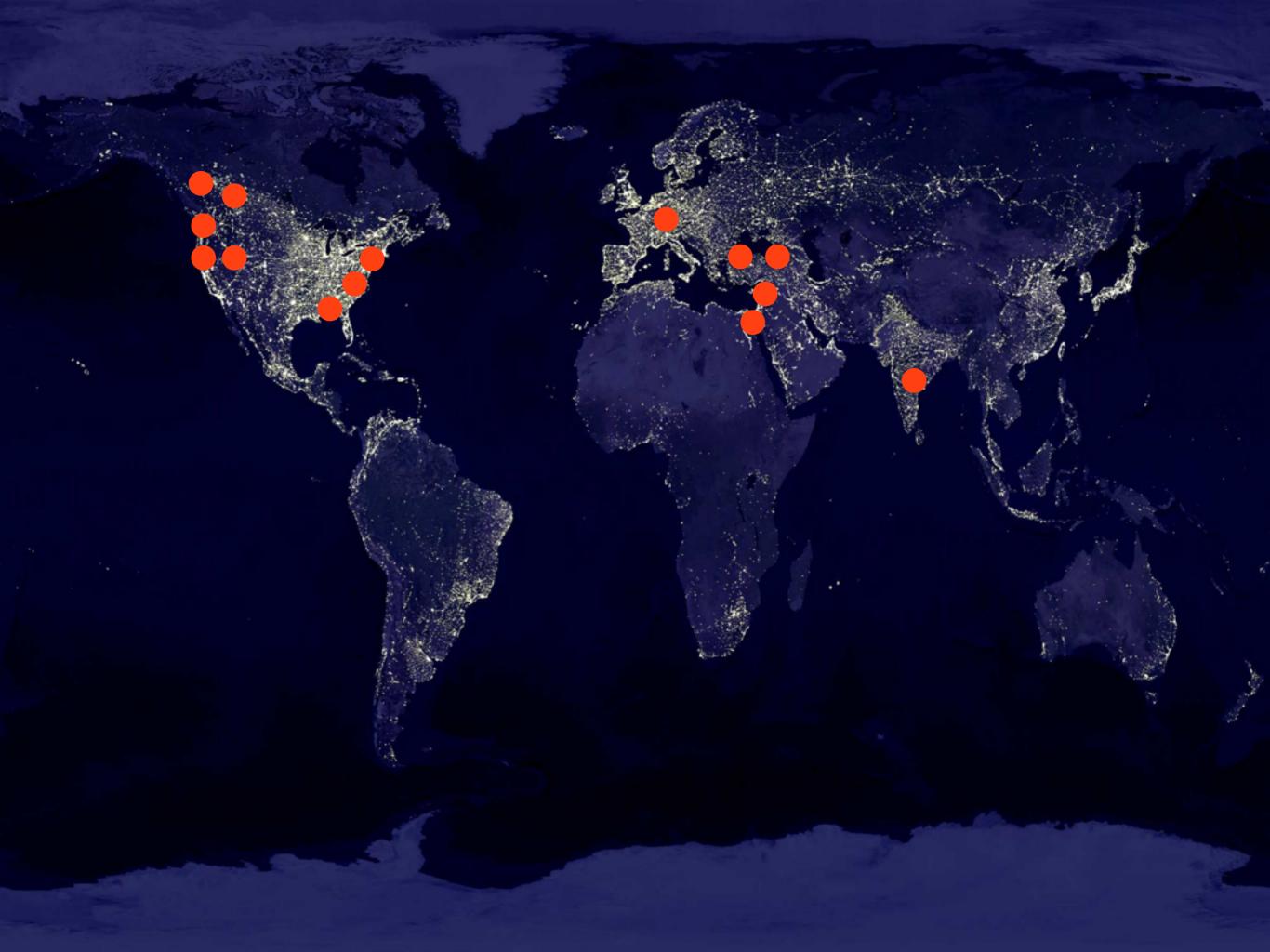
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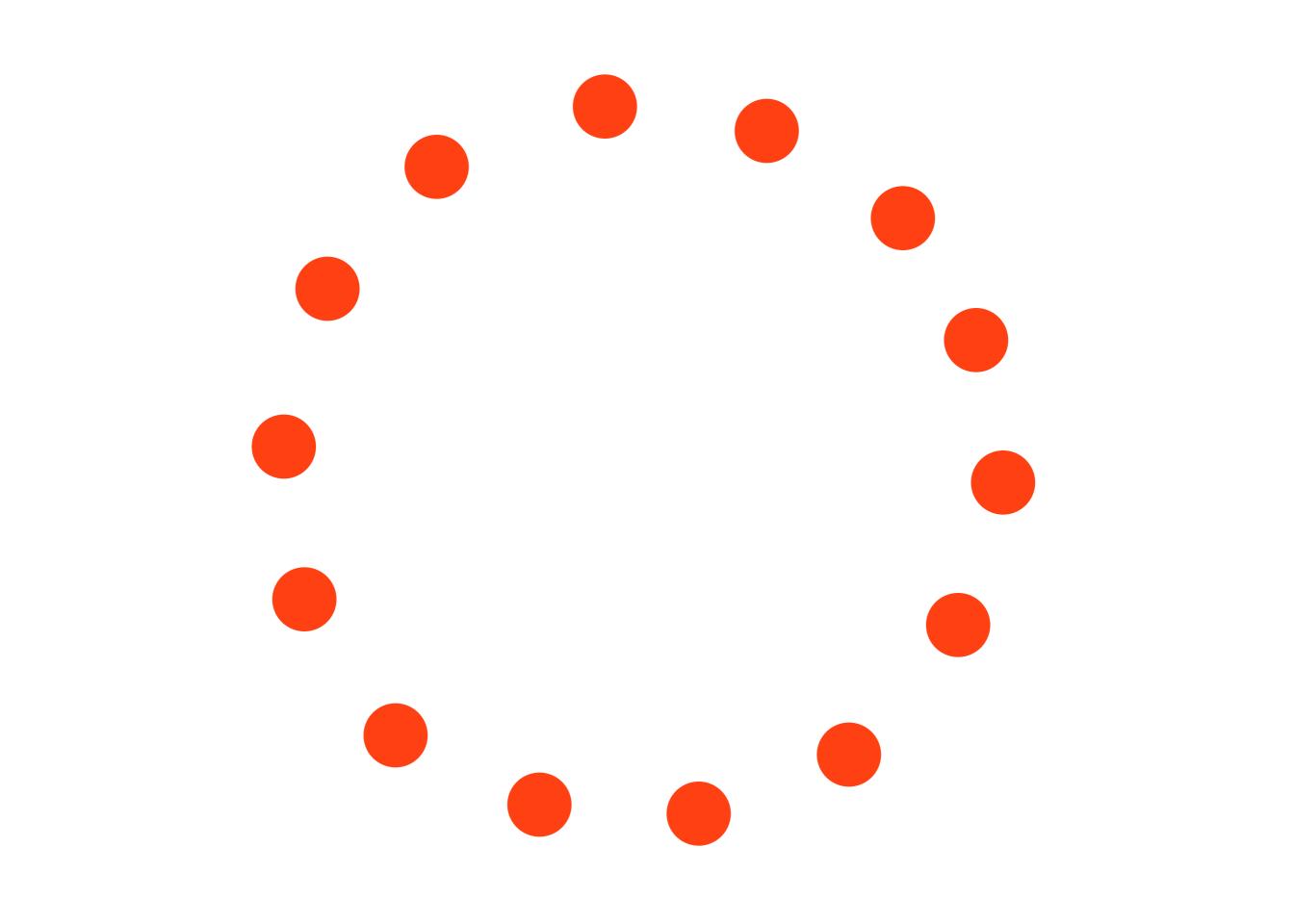
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Die Kinder ohne Tränen

Medizin Überall auf der Welt leiden Kinder an mysteriösen Krankheiten, die so selten sind, dass kein Arzt die richtige Diagnose stellt. Nun ist es Genforschern gelungen, ein solches Erbleiden zu entschlüsseln - weil die Eltern nicht aufgaben.

"The Genome is a language we are just | Deutschland. Bertrands Schwester hatte eiin Stanford).

City, Grace aus Menlo Park und Tim aus | "einer der besten in meiner Karriere."

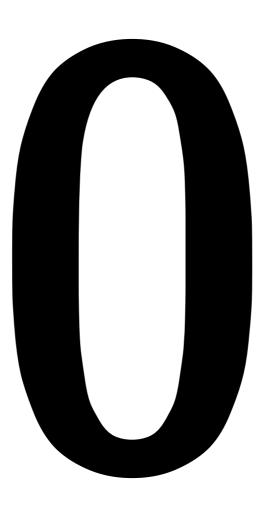
learning" (Inschrift auf dem Uni-Campus | nen Ball mitgebracht. Tim robbte ihm auf | te, war das Zusammentreffen von Kindern, dem Boden vor dem Podium hinterher.

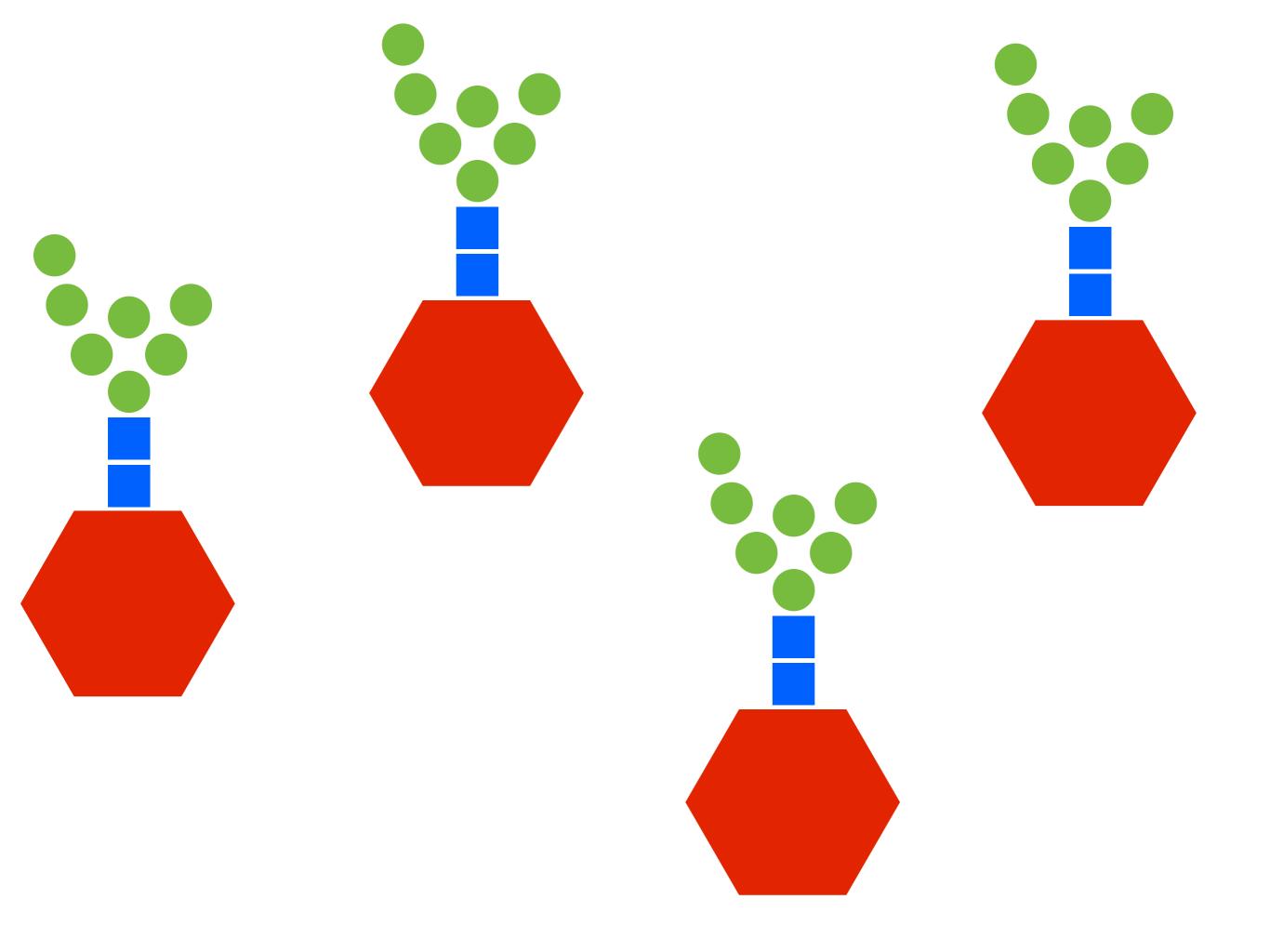
inder sind meist keine gern gesehe-nen Gäste auf medizinischen Fach-Stoffwechselexperten und Genetiker von

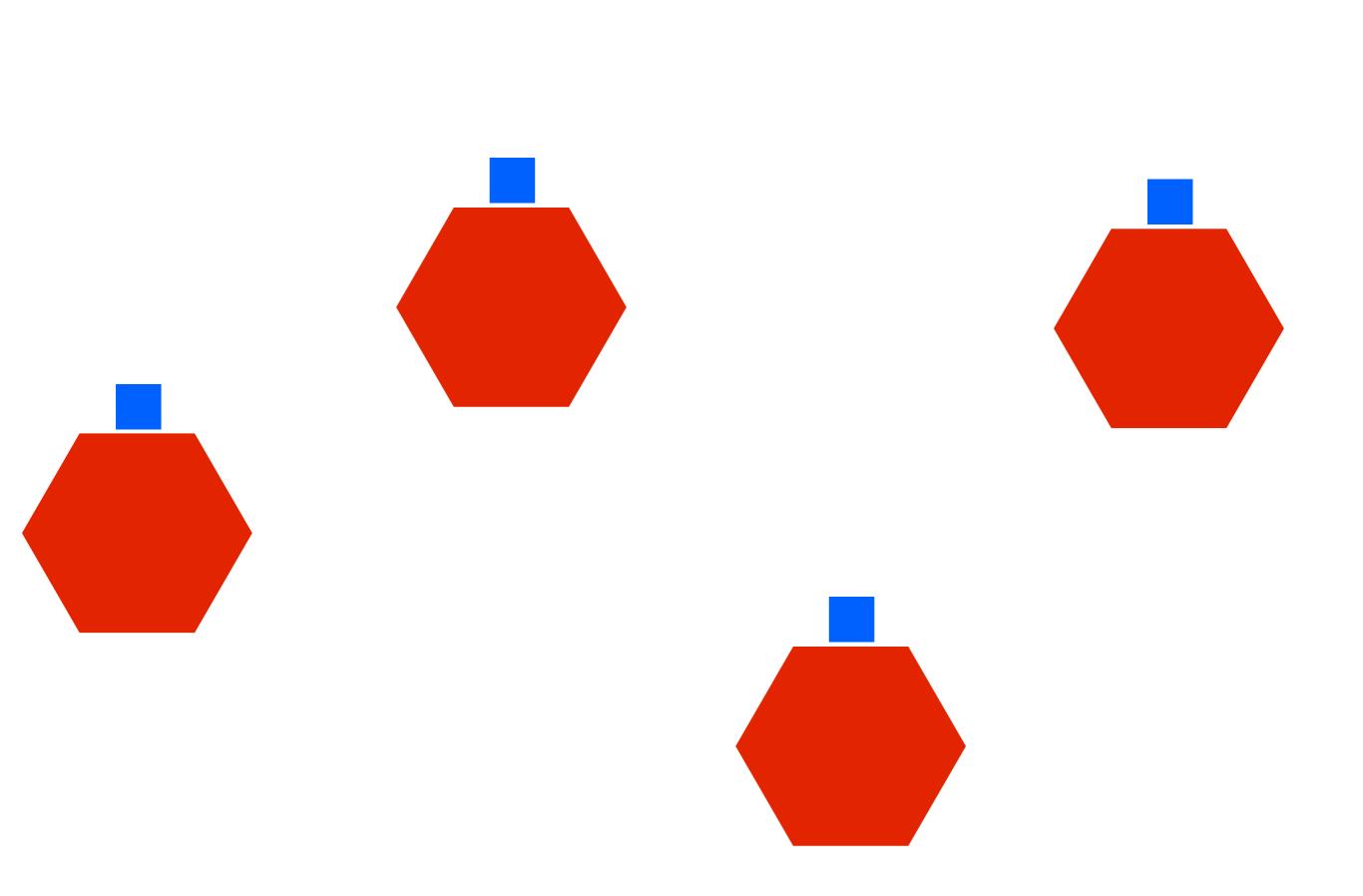
G tagungen. Doch beim Symposium | Weltrang. Statt vom Kinderlärm genervt für seltene Krankheiten des Sanford-Burn- zu sein, waren viele den Tränen nahe. "Das schen La Jolla in diesem Februar saßen sie Hudson Freeze, Direktor am Sanford Chil-

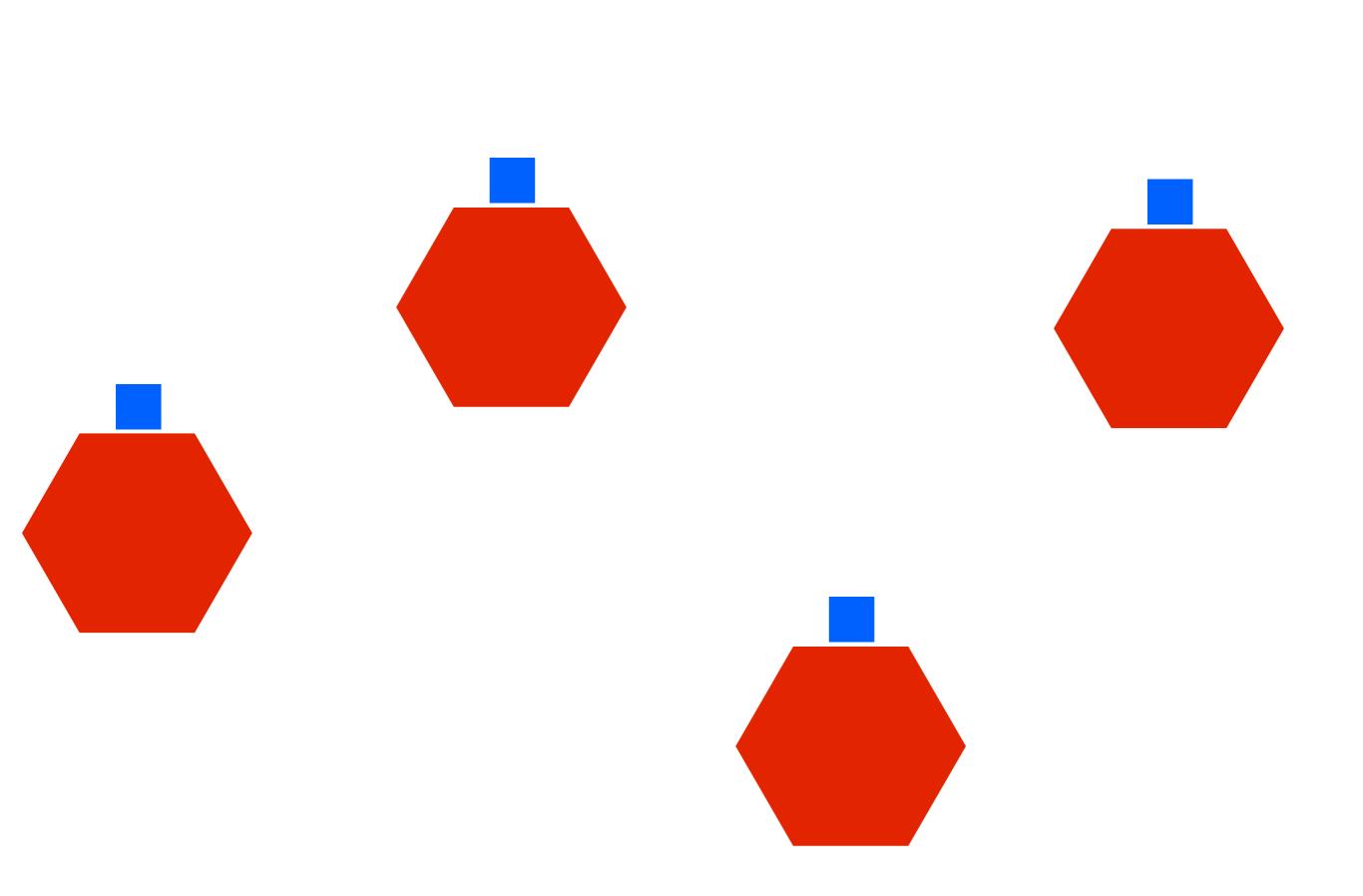
Was Freeze und seine Kollegen so rührdie das gleiche Schicksal teilen. Sie begeg-Während die Kinder spielten, hielten die | neten sich am Ende einer langen Reise

Bertrand, Grace und Tim leiden an einer sehr seltenen Krankheit, die bis vor Kurham-Forschungszentrums im kaliforni- war ein magischer Moment", erinnert sich zem noch unbekannt war und erst mithilfe moderner molekularbiologischer Methoin der ersten Reihe: Bertrand aus Salt Lake | dren's Health Research Center in La Jolla, | den entschlüsselt werden konnte. Ihre Geschichte erzählt vom Wandel, der sich ge-

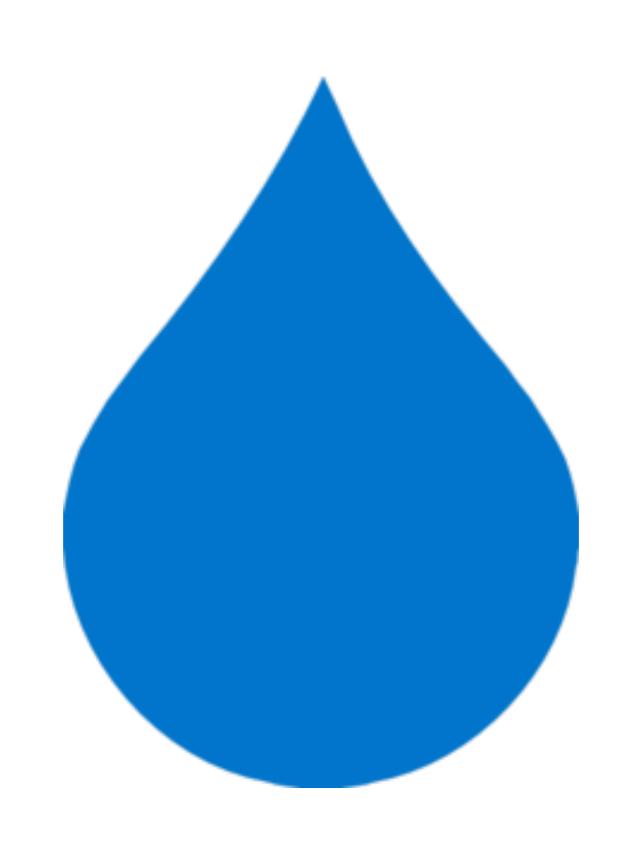








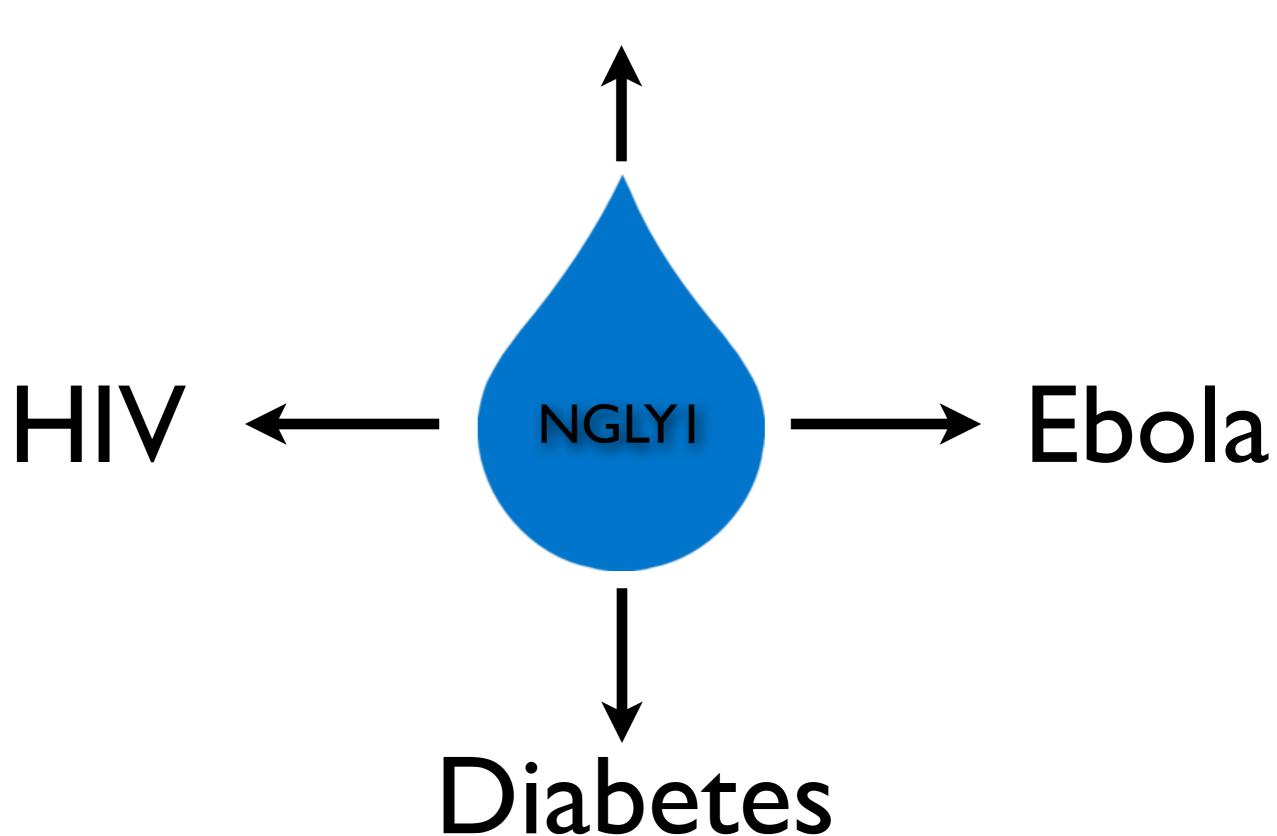








Alzheimer's



Curing cancer



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THE TRANSFORMATION

Is it possible to control cancer without killing it?

BY JEROME GROOPMAN







or almost thirty years, William

as a basketball referee for the

Kuhens worked on Staten Island











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"One of a kind." Seth Mnookin. The New Yorker.