



#### Artist's Interpretation, Mary Ellen Scherl 6

An artist's interpretation of chromatin folded up inside the nucleus. The artist has rendered an extraordinarily long contour into a small area, in two dimensions, by hand.

Credit: Mary Ellen Scherl.



#### Artist's Interpretation, Mary Ellen Scherl 7

An artist's interpretation of chromatin folded up inside the nucleus. The artist has rendered an extraordinarily long contour into a small area, in two dimensions, by hand.

Credit: Mary Ellen Scherl.



#### Artist's Interpretation, Guhapriya Ranganathan 1

An artwork inspired by the problem of genome folding, by Broad Institute Artist-in-Residence Guhapriya Ranganathan. This originally appeared in her exhibition, *Unfolding*.

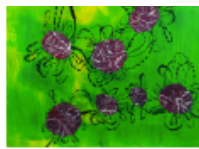
Credit: Guhapriya Ranganathan.



#### Artist's Interpretation, Guhapriya Ranganathan 2

An artwork inspired by the problem of genome folding, by Broad Institute Artist-in-Residence Guhapriya Ranganathan. This originally appeared in her exhibition, *Unfolding*.

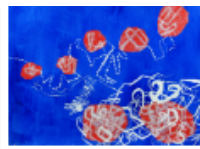
Credit: Guhapriya Ranganathan.



#### Artist's Interpretation, Guhapriya Ranganathan 3

An artwork inspired by the problem of genome folding, by Broad Institute Artist-in-Residence Guhapriya Ranganathan. This originally appeared in her exhibition, *Unfolding*.

Credit: Guhapriya Ranganathan.



#### Artist's Interpretation, Guhapriya Ranganathan 4

An artwork inspired by the problem of genome folding, by Broad Institute Artist-in-Residence Guhapriya Ranganathan. This originally appeared in her exhibition, *Unfolding*.

Credit: Guhapriya Ranganathan.



#### Artist's Interpretation, Guhapriya Ranganathan 5

An artwork inspired by the problem of genome folding, by Broad Institute Artist-in-Residence Guhapriya Ranganathan. This originally appeared in her exhibition, *Unfolding*.

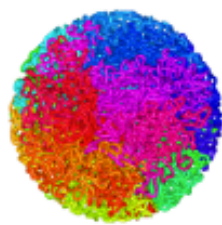
Credit: Guhapriya Ranganathan.



#### Artist's Interpretation, Guhapriya Ranganathan 6

An artwork inspired by the problem of genome folding, by Broad Institute Artist-in-Residence Guhapriya Ranganathan. This originally appeared in her exhibition, *Unfolding*.

Credit: Guhapriya Ranganathan.



#### Fractal Globule

In this image, nearby regions on a chain of DNA are indicated using similar colors. The fractal globule is has a hierarchical organization; regions nearby along the chain are also nearby in 3D. The fractal globule is extraordinarily dense, but entirely unknotted. Our group's earlier work suggested that long stretches of DNA fold into fractal globules.

Credit: Miriam Huntley, Rob Scharein, and Erez Lieberman Aiden.



#### Chromosome 14 Origami 1

A segment of chromosome 14 folded to reveal a fractal curve using Origami, the Japanese art of paper folding. Our group's earlier work suggested that long stretches of DNA fold into Peano curve-like fractals.

Credit: Designed and folded by Jason Ku. Photo by Erik Demaine.



#### Chromosome 14 Origami 2

A segment of chromosome 14 folded to reveal a fractal curve using Origami, the Japanese art of paper folding. Our group's earlier work suggested that long stretches of DNA fold into Peano curve-like fractals.

Credit: Designed and folded by Jason Ku. Photo by Erik Demaine.