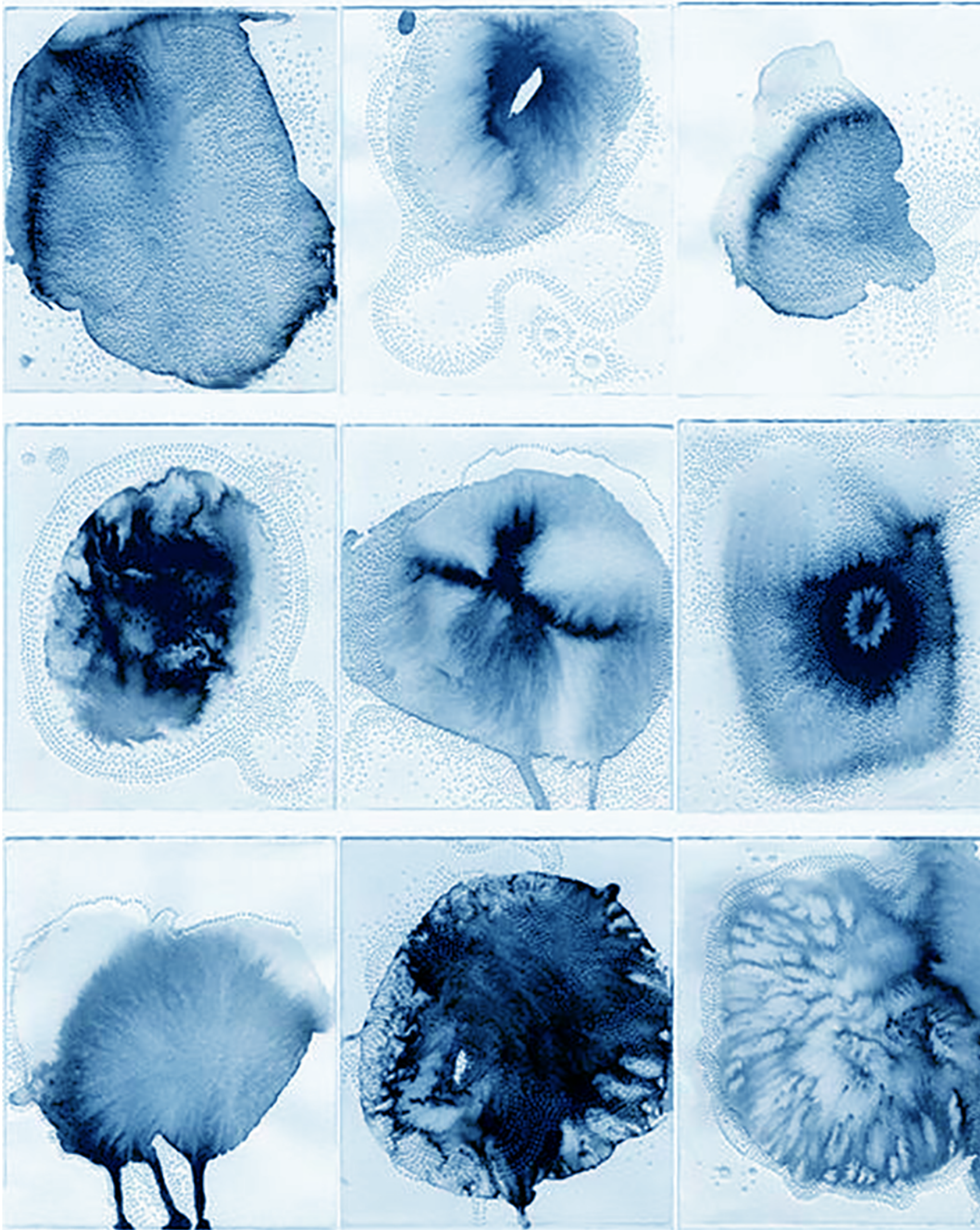


ENCODED POETICS

Citizen science / Midterm

“ In the future a new generation of artist will be writing genomes the way Blake and Byron wrote verses”

Freeman Dyson



CRISPR - Cas encoding

DNA is an excellent medium

for archiving data

Harvard scientists pioneer storage of video inside DNA

Transfer of Eadweard Muybridge's galloping horse opens possibility of using living cells to store information

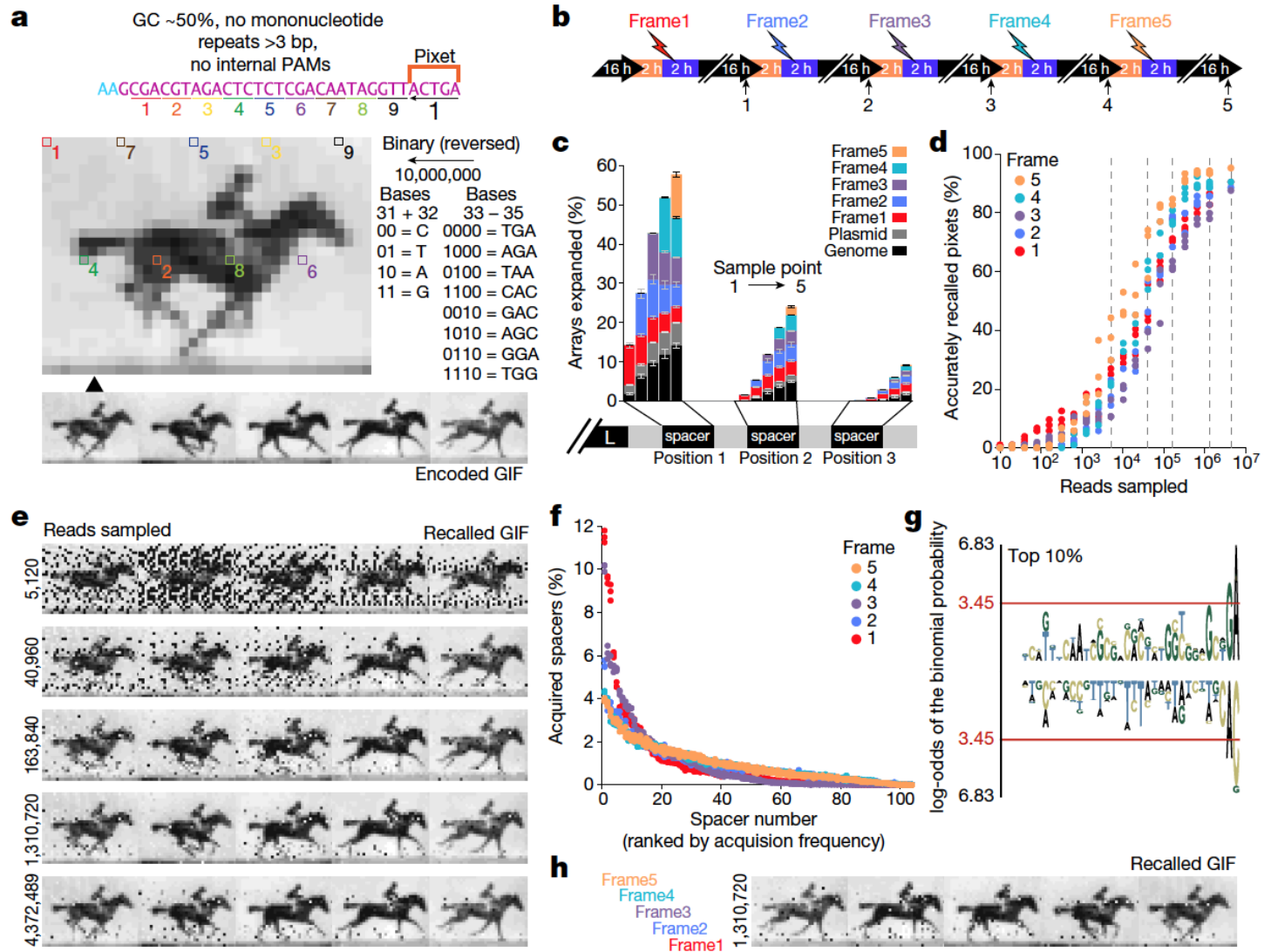


Original Image

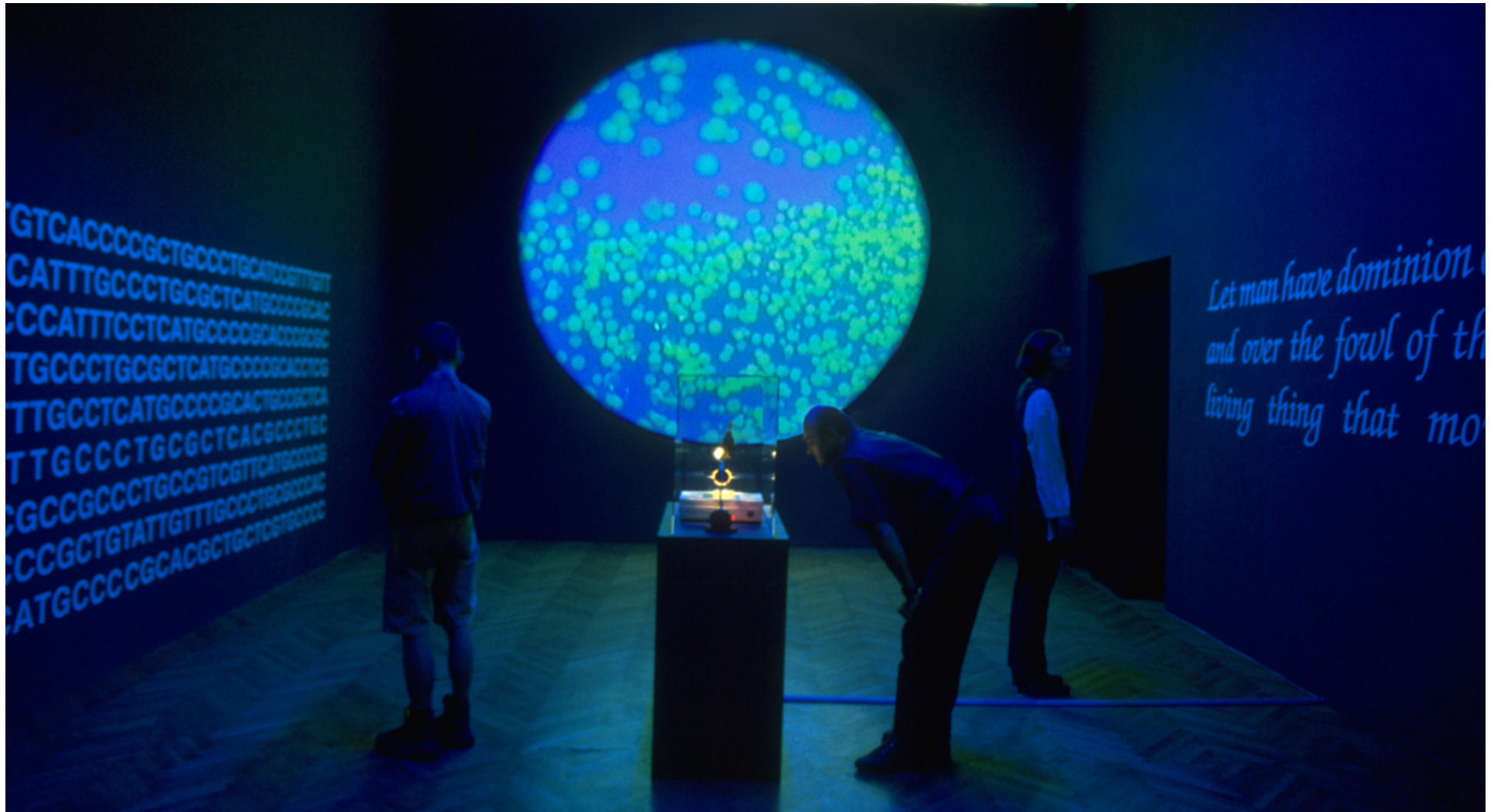
Image Reconstructed From Bacteria

▲ The animation on the left comes from a series of images taken by Eadweard Muybridge of the mare, Annie G, galloping. The frames were encoded in genetic material and stored in living bacteria. The animation on the right shows the frames after multiple generations of bacterial growth, recovered by sequencing the bacterial genomes. Photograph: Seth Shipman

The Guardian



NATURE - 'CRISPR-Cas encoding of a digital movie into the genomes of a population of living bacteria'



Eduardo Kac - GENESIS

Let man have dominion over the fish of the sea and over the fowl
of the air and over every living thing that moves upon the earth



..... - - - - - - - - - -
..... - - - - - - - - - -
..... - - - - - - - - - -
..... - - - - - - - - - -
..... - - - - - - - - - -



Morse to DNA conversion principle

DASH (-) = T

A = WORD SPACE

DOT (.) = C

G = LETTER SPACE



CTCCGCGTATTTGCTGTACCCCGCTGCCCTGCAATCCGTTTGTGCGGTGCGCGTTTGTCA
TTTGCCCTGCGCTCATGCCCGCACCTCGCCGCGCGCCCATTTCCTCATGCCCGCACCC
CGCGCTACTGTGCTCCATTGCGCTGCGCTCATGCCCGCACCTCGTTTGTGCTTGCAT
TTGCTTCAITGCCCGCACTGCGCTCACTGTCGTTCATTGCGCTGCGCTCACGCCCTGC
GCTCGTCTTACTCCGCGCGCCCTGCCGTTCGTTCATGCCCGCGCGTTCATGCCCGCTG
TATTGTTTGGCCCTGCGCGCCACCTGCTTGTTCATGCCCGCACGCTGCTGCGCGCC

Living organisms that capture, store and propagate information over time





Seung Hwan Oh



Natasai Audrey Chieza

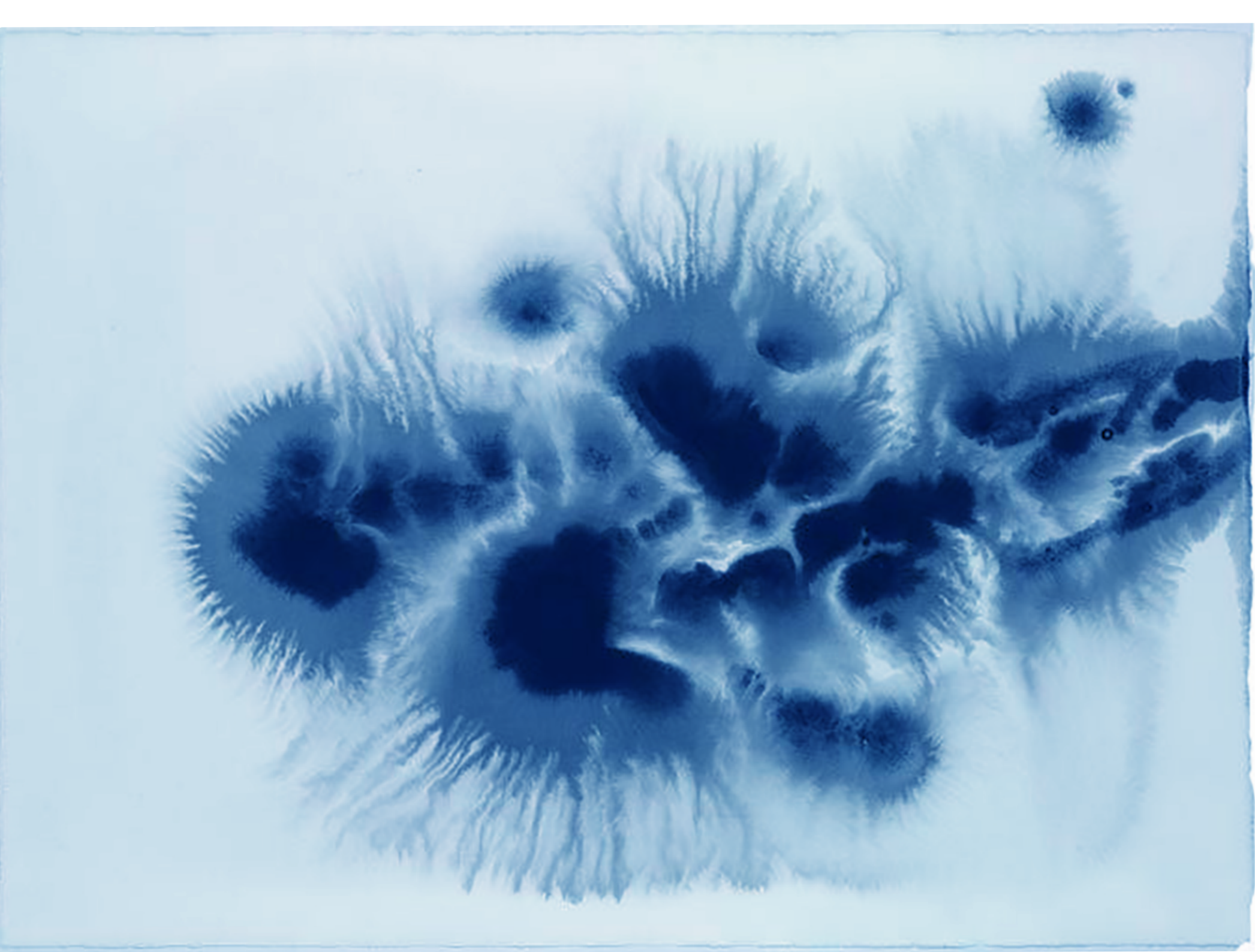




Develop a language for CRISPR - Cas Encoding

Experiment with medium [Paper, Petri dish, Agar]

Bacteria ink - growth



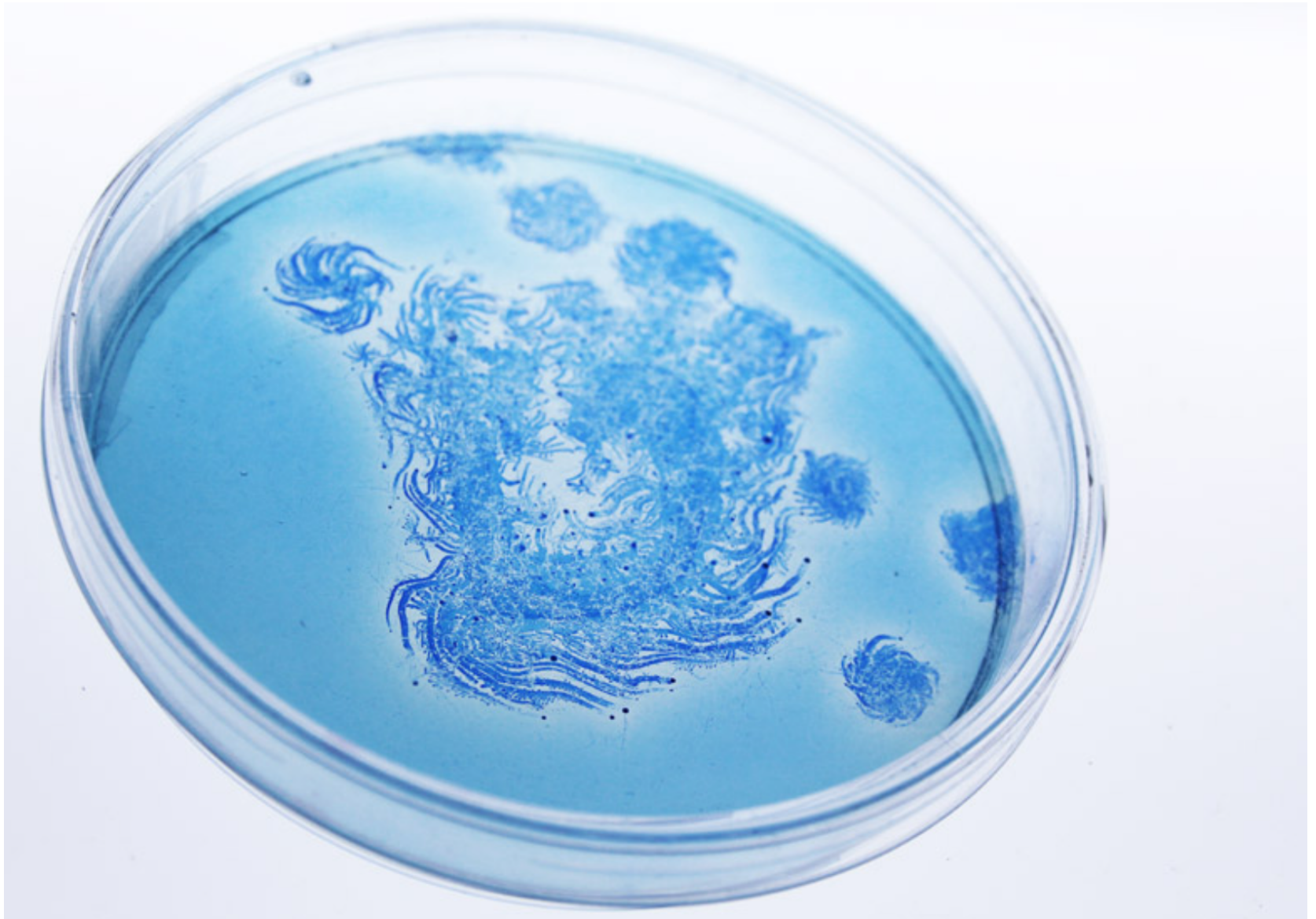
ENCODED POETICS
Modern applicatios vs Natural philosophy

*Natura non
facit saltur*

Small yellow text at the bottom of the slide, likely a footer or citation.

*Natura non
facit saltur*

*Natura
facit saltur*



NATHIER FERNADEZ
[Citizen science - 2018]

