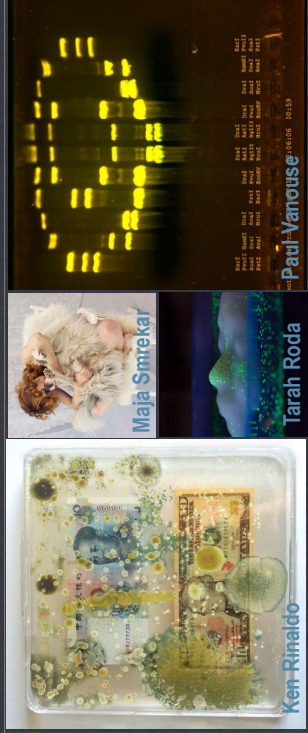




Ken Rinaldo

Maja Smrekal

Tarah Roda

Paul Vanouse

PROJECT

BIOART

THE COMMUNITY IS BIG, WIDE AND INCLUSIVE

SCIENCE WHERE DO WE COME FROM?

ART WHAT ARE WE?



Alan Tod

Gail Hochberg

Jennifer Willet

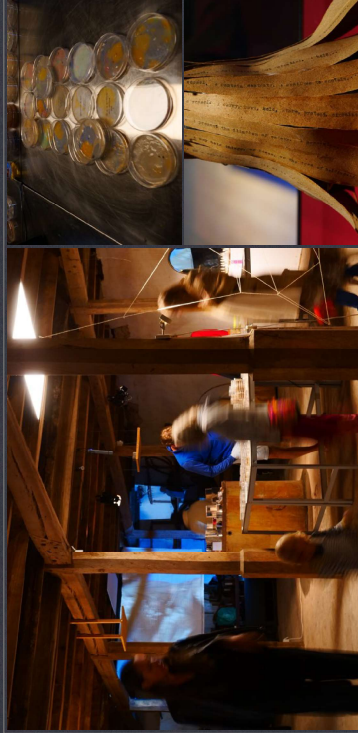
PROJECT

BIOART

THE COMMUNITY IS GROWING, ENGAGED AND SUPPORTIVE

ART WHAT ARE WE?

SCIENCE WHERE ARE WE GOING?



CULTIVAMOS CULTURA . ORG

WE HOST RESIDENCIES, TEACH, ORGANIZE CONFERENCES AND EXHIBITIONS



PROJECT

CULTIVAMOS CULTURA GOES DIGITAL

EXHIBITION GARDEN @ ARS ELECTRONICA 2020

ART HOW TO CONNECT? PHYSICAL AND VIRTUAL

ART HOW TO EXPERIENCE? WHAT NEEDS EXPERIENCING?



PROJECT

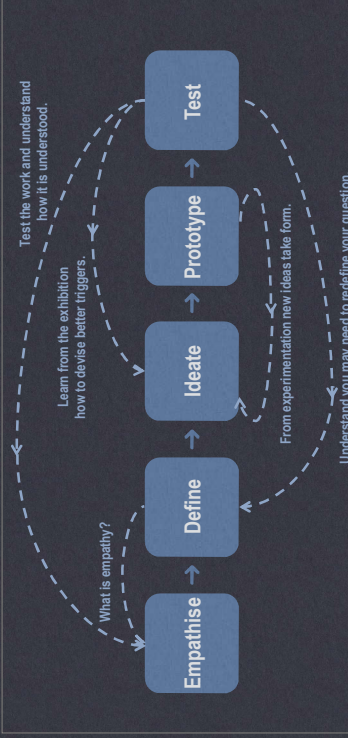
ECTOPIA

WE HOST RESIDENCIES, TEACH, EXHIBITIONS AND ORGANIZE CONFERENCES

ART WOULD YOU CONSIDER COMING?

SCIENCE

WOULD YOU CONSIDER COMING?



METHODOLOGY - REFLECTION

DO YOU KNOW HOW YOU MAKE DECISIONS IN YOUR PROCESS?

THE LIVING DECK

MARTA MENEZES

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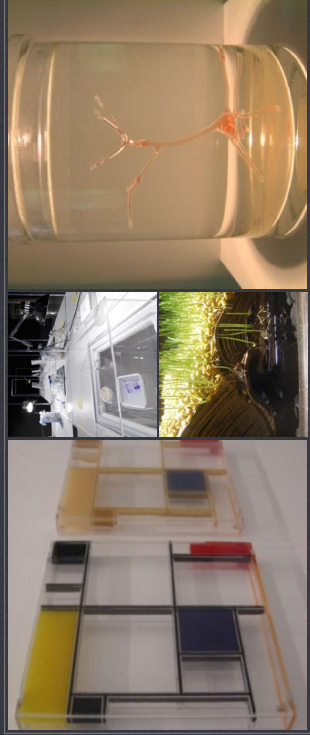


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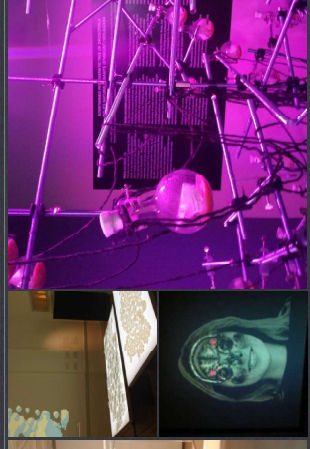


LAB HOPPING

THE CONCEPT DETERMINES THE TECHNIQUE, TECHNOLOGY AND MATERIAL

ART WHAT MAKES AN ART PIECE?

SCIENCE WHAT IS YOUR QUESTION/ANSWER?



LAB HOPPING

THE CONCEPT DETERMINES THE TECHNIQUE, TECHNOLOGY AND MATERIAL

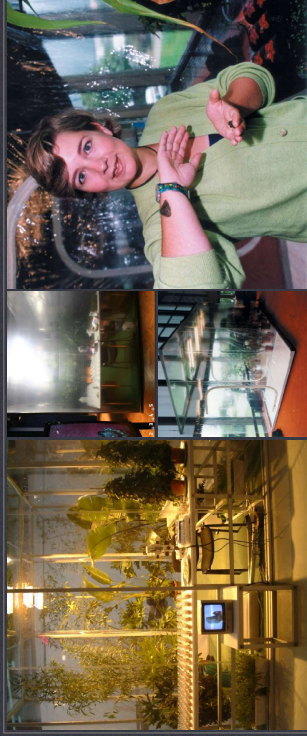
ART WHAT MAKES AN ART PIECE?

SCIENCE WHAT IS YOUR QUESTION/ANSWER?



NATURE? (1999)

WHAT ARE THE CRITERIA YOU ARE USING TO DETERMINE IF SOMETHING IS NATURAL OR NOT?

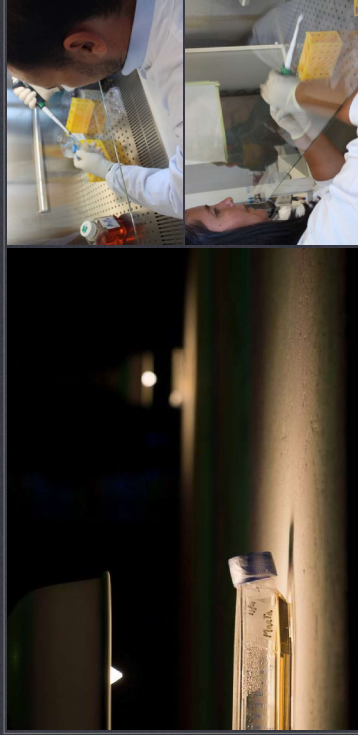


NATURE?

WHAT IS IN AN ART PIECE? WHAT MAKES AN ART PIECE?

ART IS ARTIFICIAL. THE OPPOSITE OF NATURAL?

SCIENCE WHAT GIVES YOU THE AUTHORITY TO MANIPULATE ORGANISMS FOR ART?



IMMORTALITY FOR TWO

WHY DO WE WANT TO BE IMMORTAL? WHAT FOR? HOW? WHAT IS THE PRICE? IS THERE A PRICE? WHAT WILL WE LOSE? WHAT DO YOU MEAN?



Immortality for two and Anti-Marta

Two is an installation depicting, comprising *Immortality for Two* and *Anti-Marta*, exploring the possibility of human individuality on the face of an evolving biotech-based society.

It represents the relationship between an artist and a scientist, but also the boundary between art and science and limits of our own identity. Marta and Luis, artist and immunologist, have a pair for live: mated, married, united. The search for an artistic representation of such a pact led to immortalisation of each other's white blood cells using viruses, or transplantation of skin grafts.

In both cases, the outcome is a tension between the individuality of each one, and the bonding. As the immortal cell lines are involved in immune defense, although derived from people in love, they need to be kept in perpetual isolation. The skin transplants were also rapidly rejected, given the minute differences. Yet, in both cases the pact can be seen, the immortal cell lines exist and the skin grafts were the side effect of the pact. The rejection of the skin led to the production of molecules (antibodies) that for ever will be able to identify the other, alike the acquisition of a sixth sense that can be visualised through the isolation of appropriate antibodies.

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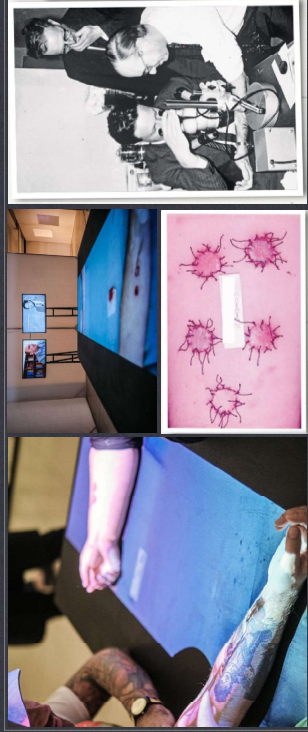


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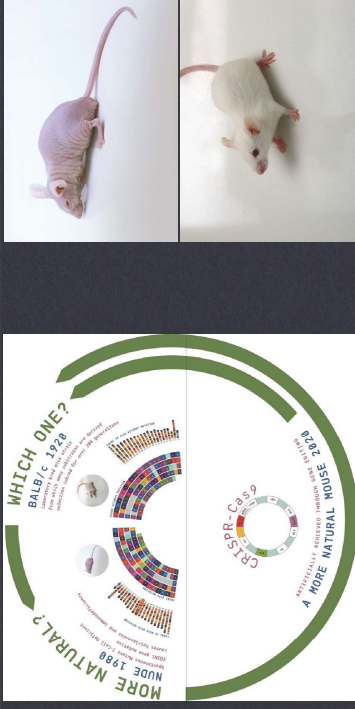




ANTI-MARTA

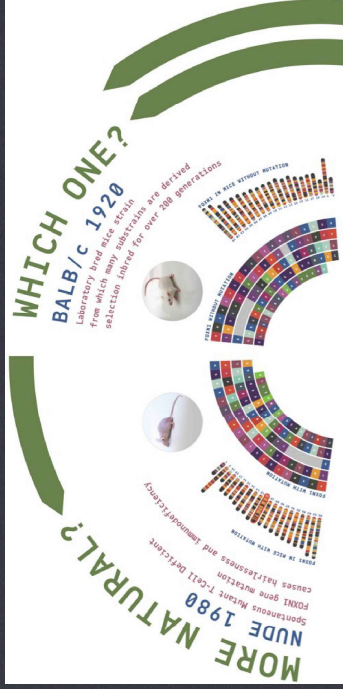
THE REJECTION OF THE NON-SELF AND BECOMING A PART OF EACH OTHER FOR AS LONG AS YOU LIVE

ART IS IDENTITY A CORE CONCEPT? SCIENCE HOW DO YOU (CO)EXIST?



TRULY NATURAL

WHAT ARE THE CRITERIA YOU ARE USING TO DETERMINE IF SOMETHING IS NATURAL OR NOT? CAN WE ARTIFICIALLY CREATE NATURE?



TRULY NATURAL

WHAT ARE THE CRITERIA YOU ARE USING TO DETERMINE IF SOMETHING IS NATURAL OR NOT? CAN WE ARTIFICIALLY CREATE NATURE?

Truly Natural

Genome editing of GMO organisms through CRISPR-Cas9 technology leading to removal of transgenes. The society of today is increasingly concerned with the distinction between what is natural and what is modified by human intervention. However, as human creativity has been developing increasingly powerful tools to control and alter nature, it is becoming difficult to discriminate the natural and the artificial. The selection of crops and domestication of animals is a striking example of the development of genetic mutants by a long-term commitment to clever breeding and careful selection.

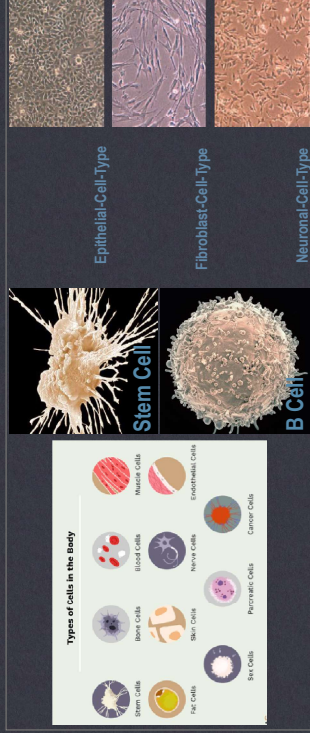
The rise of transgenesis and biotechnology provided greater control and the ability to generate characteristics that were not possible by simple mutation of existing genes. The recent development of genome editing tools, such as CRISPR-Cas9 technology, brought even greater possibilities regarding the modification of the genome content of organisms.

Truly Natural takes advantage of CRISPR-Cas9 to edit the genome of a spontaneous mutation in a bred mouse in order to revert it to the selected type status. The artwork consists in proposing a genetically altered organism with a "healthier" genome, as the genome editing is intended to revert the hindering spontaneous genetic mutation. This work creates a tension arising from the idea that a complex genomic intervention can lead to a more or less "natural" organism, or rather, something simultaneously natural and artificial.



Nature? Paul Brakfield Rutgers University, NJ Mease museum, Badajoz, ES	Decon Ligia Martins Bromo Matus D.G. Aires, PT SOPHIE EU Consortium	Tree of Knowledge Miguel Vaz-Alonso Am Fomho MRC Clinical Sciences London, UK Vivid, Birmingham, UK
Protein Portrait Rafael Arceles Yvonne Jones University of Oxford, UK Mease museum, Badajoz, ES	Immortality for Two Silvia Almeida University of Lisbon, IMM Faculty of Medicine, PT	NudeArt Am Fomho MRC Clinical Sciences London, UK Vivid, Birmingham, UK
UnBiased Petro Miguel Cruz Northampton U., US Simon Park University of Surrey, UK IGC Galushankin, PT	The Family Miguel Santos STAB via, ITQB, Instituto das Artes, PT	Truly Natural Edison Ferri, BR Luis G. Aires / FUTURISTA, PT University of Lisbon, IMM Faculty of Medicine, PT
Functional Portraits Rafael Arceles Yvonne Jones University of Oxford, UK Mease museum, Badajoz, ES	Anti-Maria Luis Gracia University of Lisbon, IMM Faculty of Medicine, PT	POST EVOLUTION Draoophila Woloshin UNAM, MX Luis Teixeira, Nuno Soares, Liliana Vieira IGC Galushankin, PT
THE ORIGIN OF SPICYUS Petro Miguel Cruz Northampton U., US Simon Park University of Surrey, UK IGC Galushankin, PT	POST EVOLUTION (CORN) Maria Antonia Gonzalez Valero, Nelson Saibon ITQB, Oeiras, PT	THE ORIGIN OF SPICYUS Draoophila Woloshin UNAM, MX Luis Teixeira, Nuno Soares, Liliana Vieira IGC Galushankin, PT

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DISTRIBUTED ME - DISTRIBUTED BODY

IF YOU BEGIN WITH A CELL FROM YOUR IMMUNE SYSTEM, A B-CELL, WHAT WILL YOU BECOME?

WHERE ARE WE GOING? SCIENCE DO ALL OF YOUR CELLS HAVE THE SAME GENES?

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