

#### Wim van Eck and Netherlands Toxicogenomics Centre



#### Wim van Eck

#### **Netherlands Toxicogenomics Center**

Toxicogenetics (LUMC)

- -Leon Mullenders
- -Albert Pastink

Toxicogenomics (Maastricht University)

- -Jos Kleinjans
- -René Reijnders

Toxicology (LACDR, Leiden University)

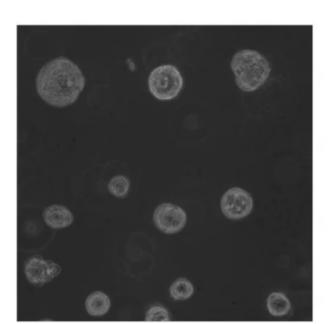
- -Bob van de Water
- -Leo Price

#### Summary (part 1)

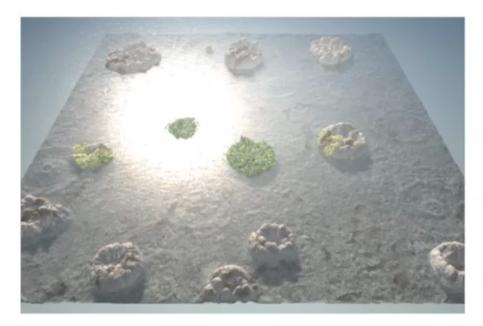
We propose to create an installation where visitors can explore digital virtual environments, which are derived in real-time from the microscopically observed live division of cells.

The visitor may choose to illuminate the cells with DNA- damaging UV-light, which triggers the growth of more varied and dynamic environments: but in doing so the visitor's hands will also be bathed in UV-light, thus posing a dilemma which represents daily-life decisions on toxic risks.

Microscopic footage of cells



Overview of generated landscape (mock-up)

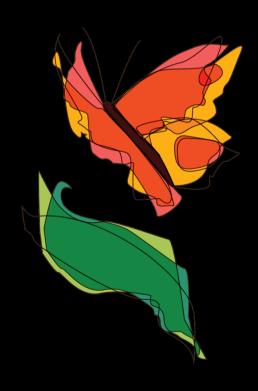


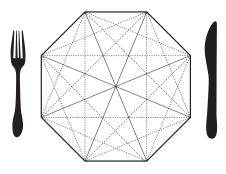
#### Summary (part 2)

We propose to create an installation where visitors can explore digital virtual environments, which are derived in real-time from the microscopically observed live division of cells.

The visitor may choose to illuminate the cells with DNA- damaging UV-light, which triggers the growth of more varied and dynamic environments: but in doing so the visitor's hands will also be bathed in UV-light, thus posing a dilemma which represents daily-life decisions on toxic risks.

#### Zack Denfeld, Cathrine Kramer & Yashas Shetty and Netherlands Consortium for Healthy Ageing





#### EDIBLE TIME MACHINE: AGEING & EATING IN THE ANTHROPOCENE

#### Previous food events





















ArtScienceBangalore











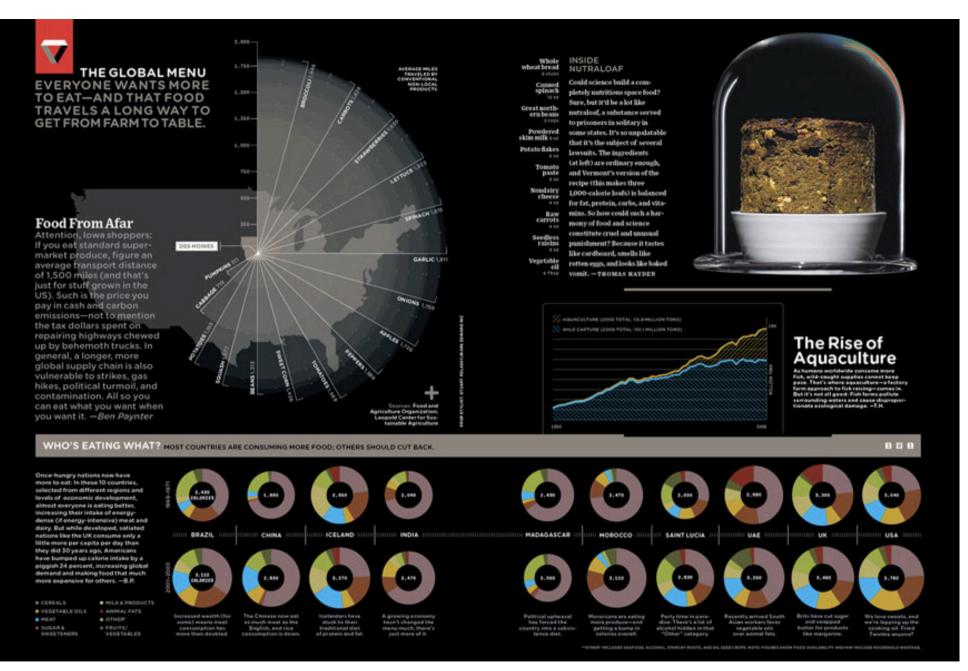
#### **GETTING OLD TOGETHER STUDY**

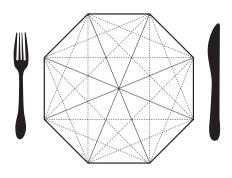
PROF. DR. P. ELINE SLAGBOOM

PROF. DR. IR. EDITH FESKENS

DR. ONDINE VAN DE REST

DR. ANNETTE DE DEUGD





#### **EDIBLE TIME MACHINE:**AGEING & EATING IN THE ANTHROPOCENE

#### Previous food events















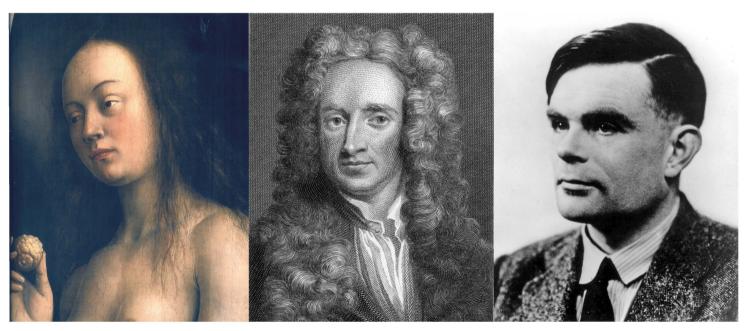


# Charlotte Jarvis and Netherlands Proteomics Centre



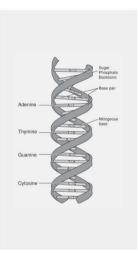
#### Blighted by Kenning

Apples infected with knowledge - Appels besmet door kennis



Eve, Newton, Turing





ARTICLE ONE
All human beings are born free
and equal in dignity and rights.
They are endowed with reason
and conscience and should act
towards one another in a spirit
of brotherhood





Dear Profes	ssor		
We are thril Blighted by	lled that the Kenning.	Genom	ics Institute is taking part in
Please find	enclosed forbidden	fruit.	
			knowledge. It has been as a message encoded into
primers to a	assist in the the sequ The cypher we have	uencing of the	ed the appropriate DNA e DNA and in the translation ely based upon the normal
			and we invite you to eat the ent your consumption.
Best Wishe	es,		
M	<u> </u>		
Charlotte Ja	arvis and Netherland	ds Proteomic	s Centre













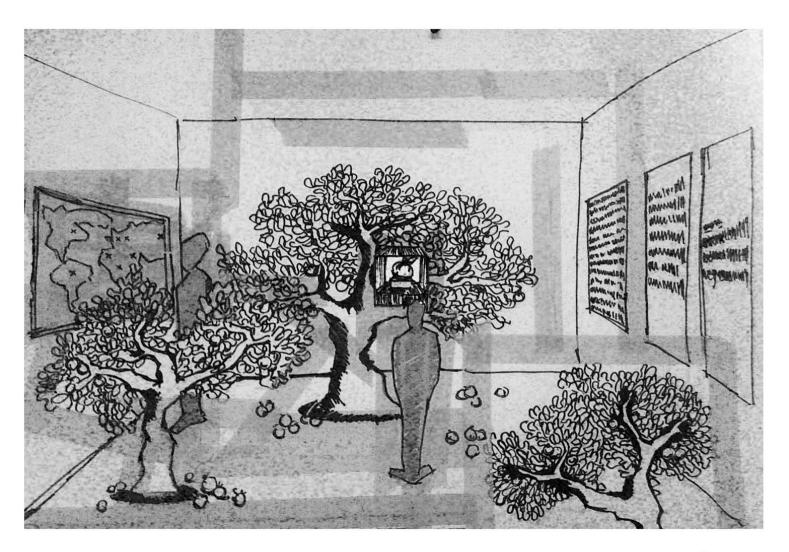






Imagined documentation from participating genomics centres who decide to eat the forbidden fruit

Please view 3minute film at http://vimeo.com/32074598



Installation plan

#### Tiddo Bakker and Centre for Biosystems Genomics



#### IN VENA VERBUM

- Message in a Vien -



- Tiddo Bakker -- Design Academy Eindhoven -- Experience Designer -
- Henk Jalink -- Center for Biosystems Genomics -- Physicist -





21°C

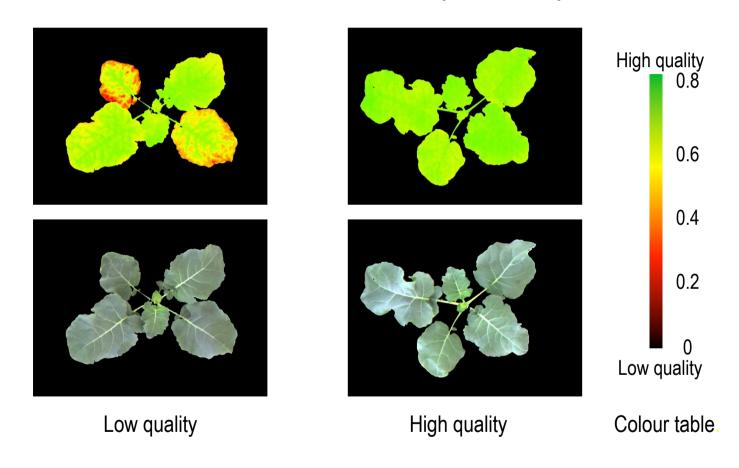
 $CO_2$ 

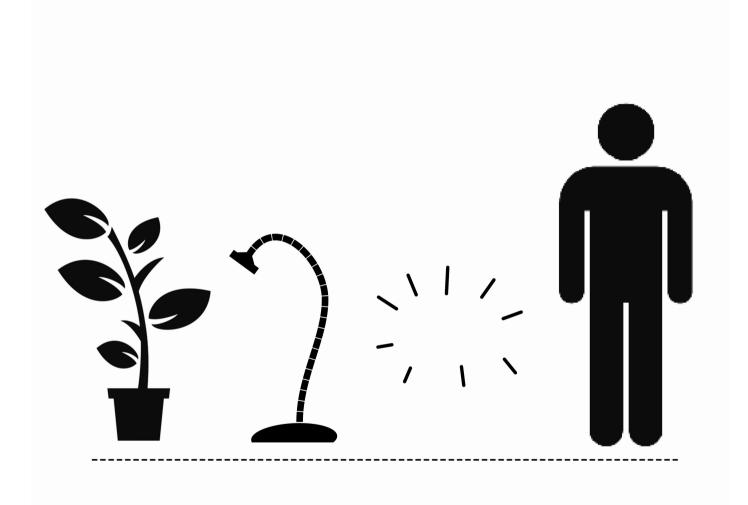


LED Induced Chorophyll Fluorescense Transient Imager



#### Real time information of plant response

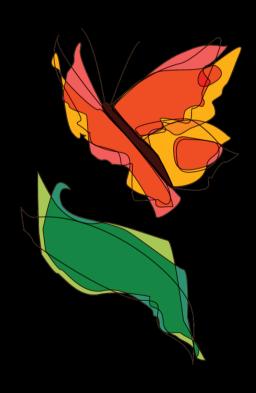






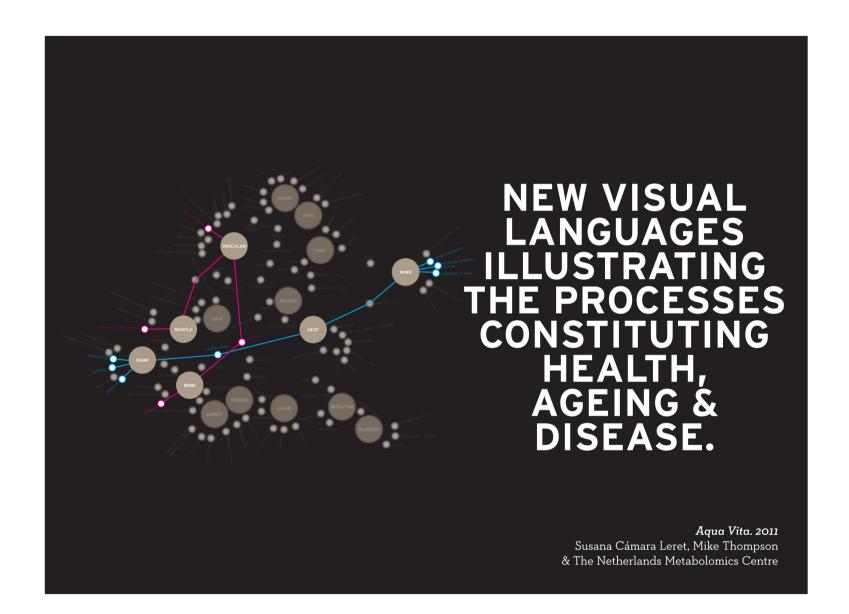


## Susane Camara Leret & Mike Thompson and Netherlands Metabolomics Centre

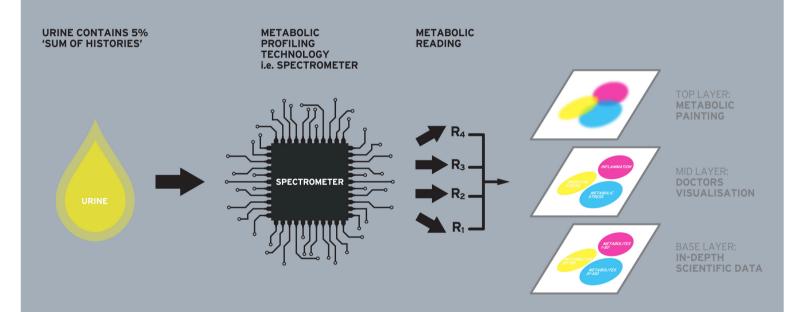




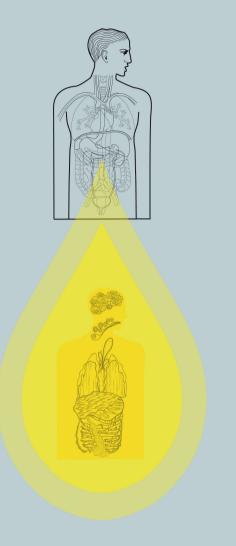
## URINE IS 5% A SUM OF HISTORIES OF AN ORGANISM Aqua Vita. 2011 Susana Cámara Leret, Mike Thompson & The Netherlands Metabolomics Centre



### WE COMBINE THE INSIGHTS OF TRADITIONAL CHINESE MEDICINE WITH METABOLIC INFORMATION.



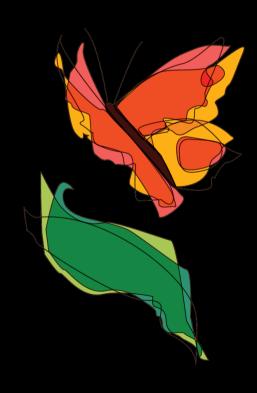
Aqua Vita. 2011
Susana Cámara Leret, Mike Thompson
& The Netherlands Metabolomics Centre



# UTILISING THE ARCHIVAL PROPERTIES OF URINE IN A VISUAL DIARY, AQUA VITA ANIMATES THE BOOK OF LIFE.

Aqua Vita. 201:
Susana Cámara Leret, Mike Thompsor
& The Netherlands Metabolomics Centre

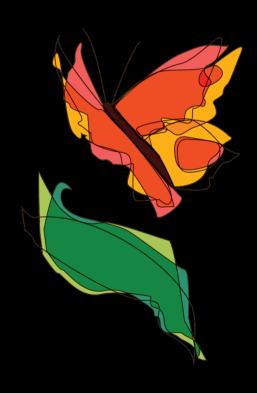
## Heather Dewey-Hagborg and Netherlands Bioinformatics Centre



#### **Stranger Visions**

Heather Dewey-Hagborg

# Lionel Billiet and Kluyver Centre for Genomics of Industrial Fermentation

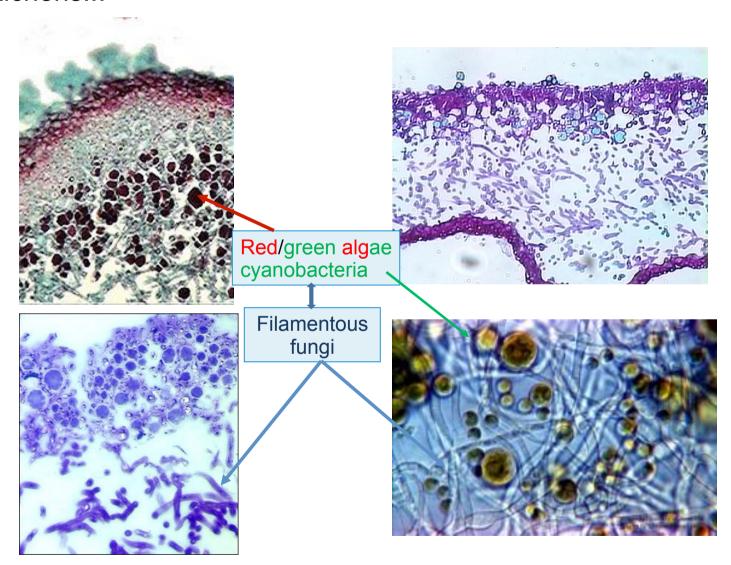


#### Concrete Lichen

Lionel Billiet & Prof. Kees van den Hondel Kluyver Centre for Genomics of Industrial Fermentation



#### 1. Lichens...



#### 1. Lichens...



Leiden, Oude Vest. Brick border along the water.

2. As a covering layer for concrete





#### 3. Proof of concept and installation

