Biotic Games

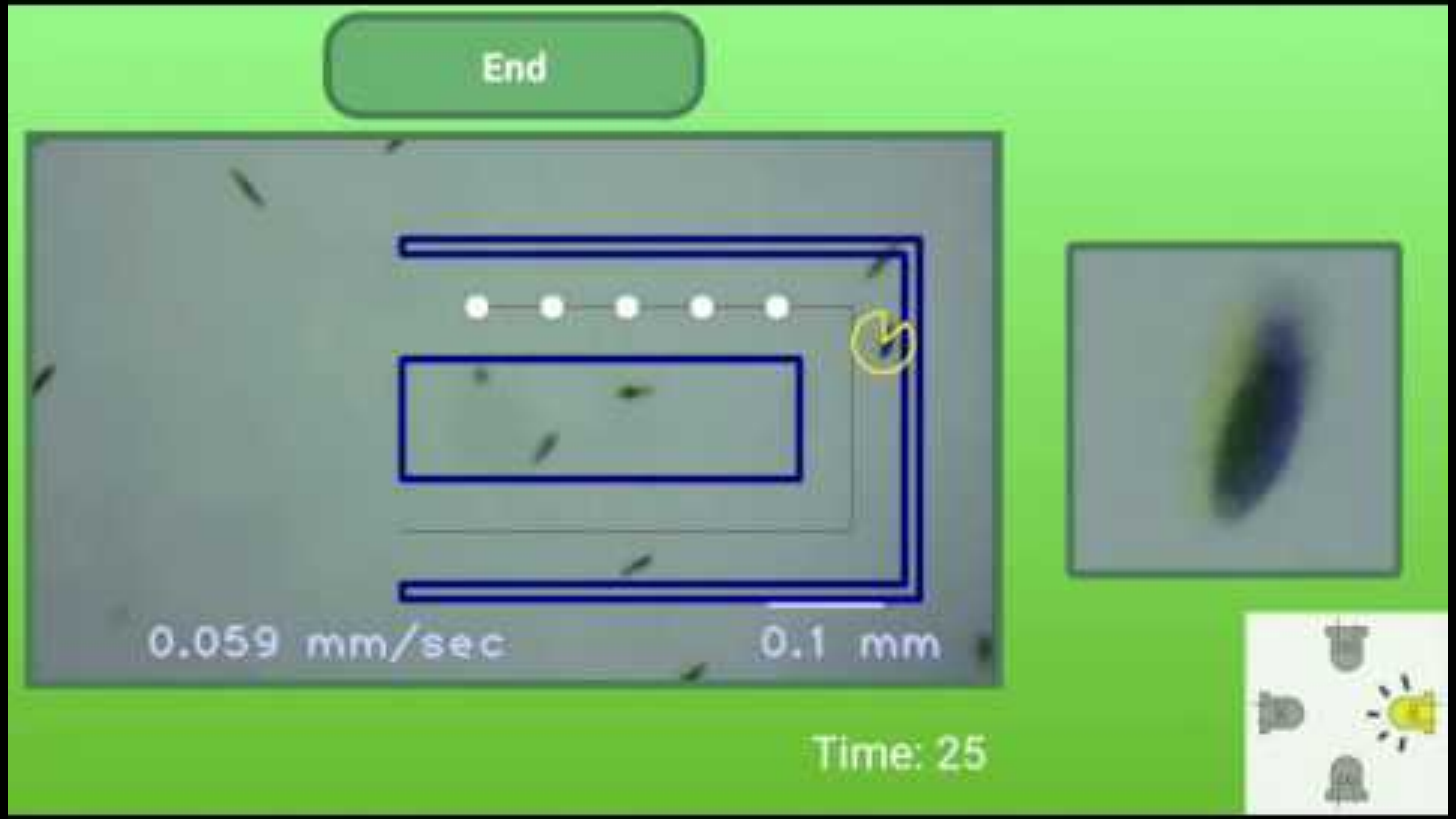
What are Biotic Games?

LudusScope: Accessible Interactive Smartphone Microscopy for Life-Science Education

Honesty Kim, Lukas Cyrill Gerber, Daniel Chiu, Seung Ah Lee, Nate J. Cira, Sherwin Yuyang Xia, Ingmar H. Riedel-Kruse

Published: October 5, 2016 • https://doi.org/10.1371/journal.pone.0162602

2016


End
0.059 mm/sec
0.1 mm
Time: 25

Animal Controlled Computer Games: Playing Pac-Man Against Real Crickets

Wim van Eck and Maarten H. Lamers

2006

Score: 18

AMCAP - C:\Documents and Settin...
File Devices Options Capture Help
2Mega Camera, WDM Video Capture

Cite this: *Lab Chip*, 2011, **11**, 14

www.rsc.org/loc

PAPER

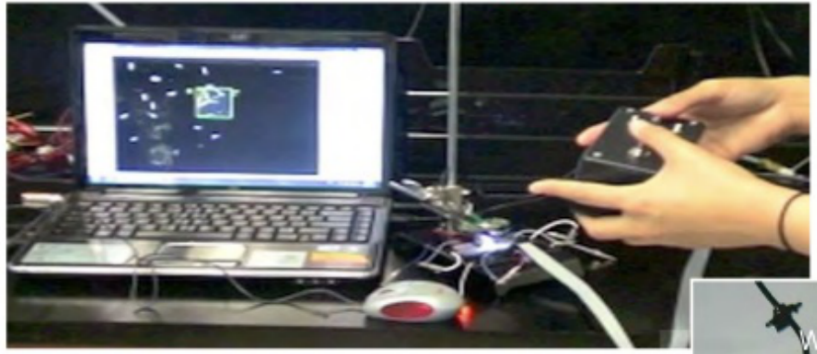
Design, engineering and utility of biotic games†‡§

Ingmar H. Riedel-Kruse,¶* Alice M. Chung, Burak Dura, Andrea L. Hamilton and Byung C. Lee

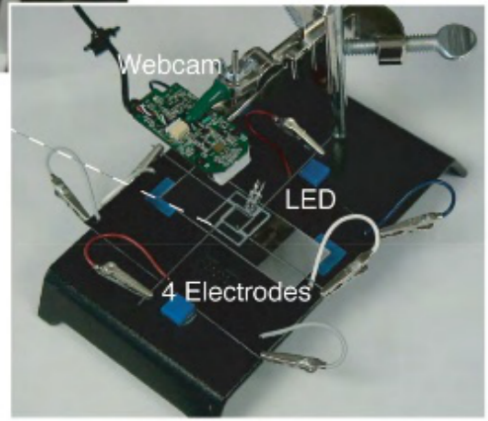
Received 11th September 2010, Accepted 23rd September 2010
DOI: 10.1039/c0lc00399a

2011

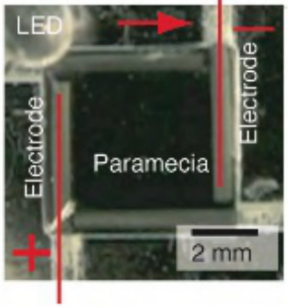
Biotic game set-up



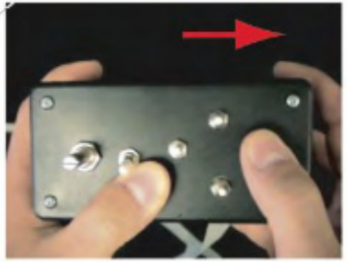
Biotic processor



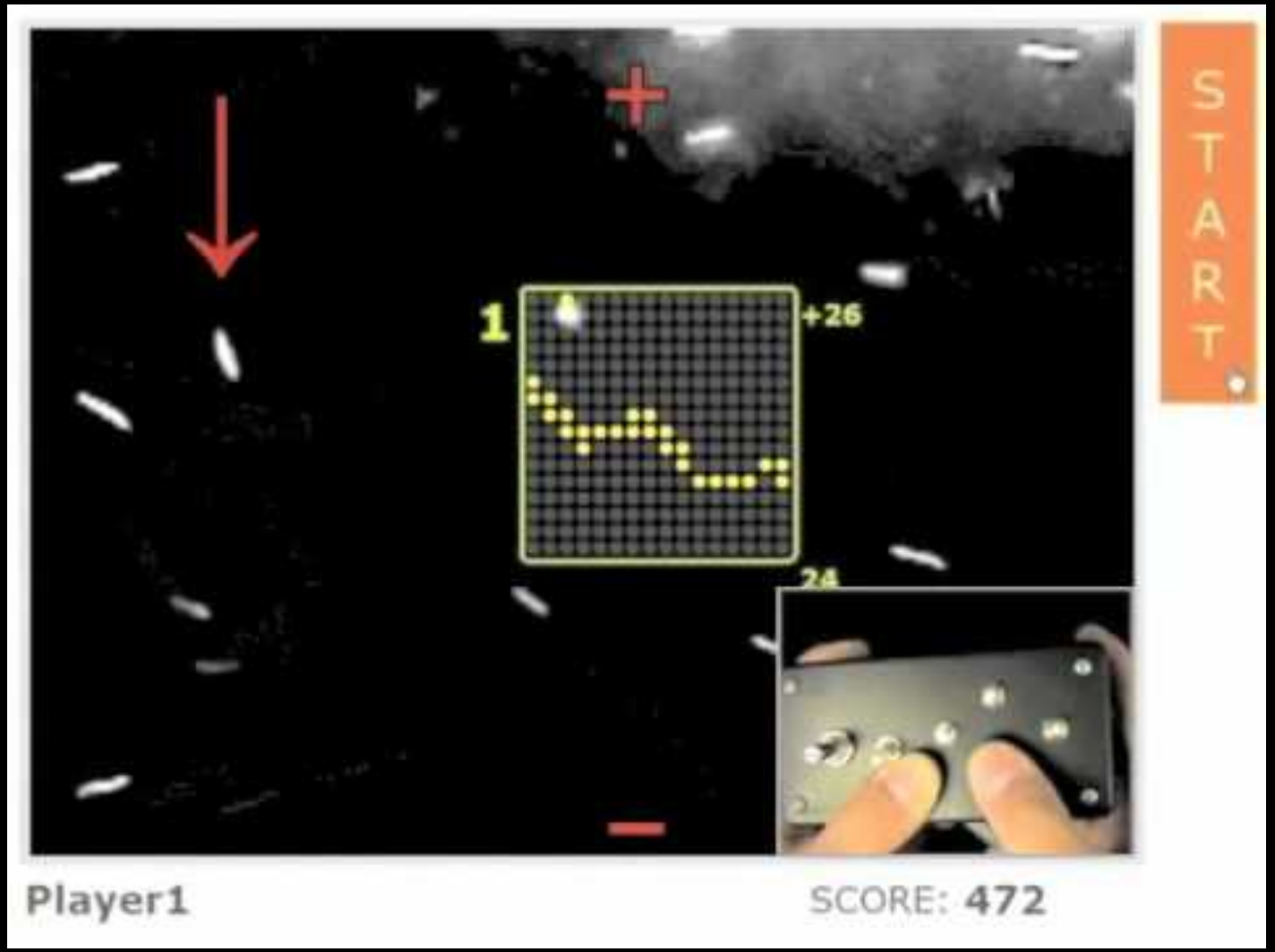
Fluid chamber

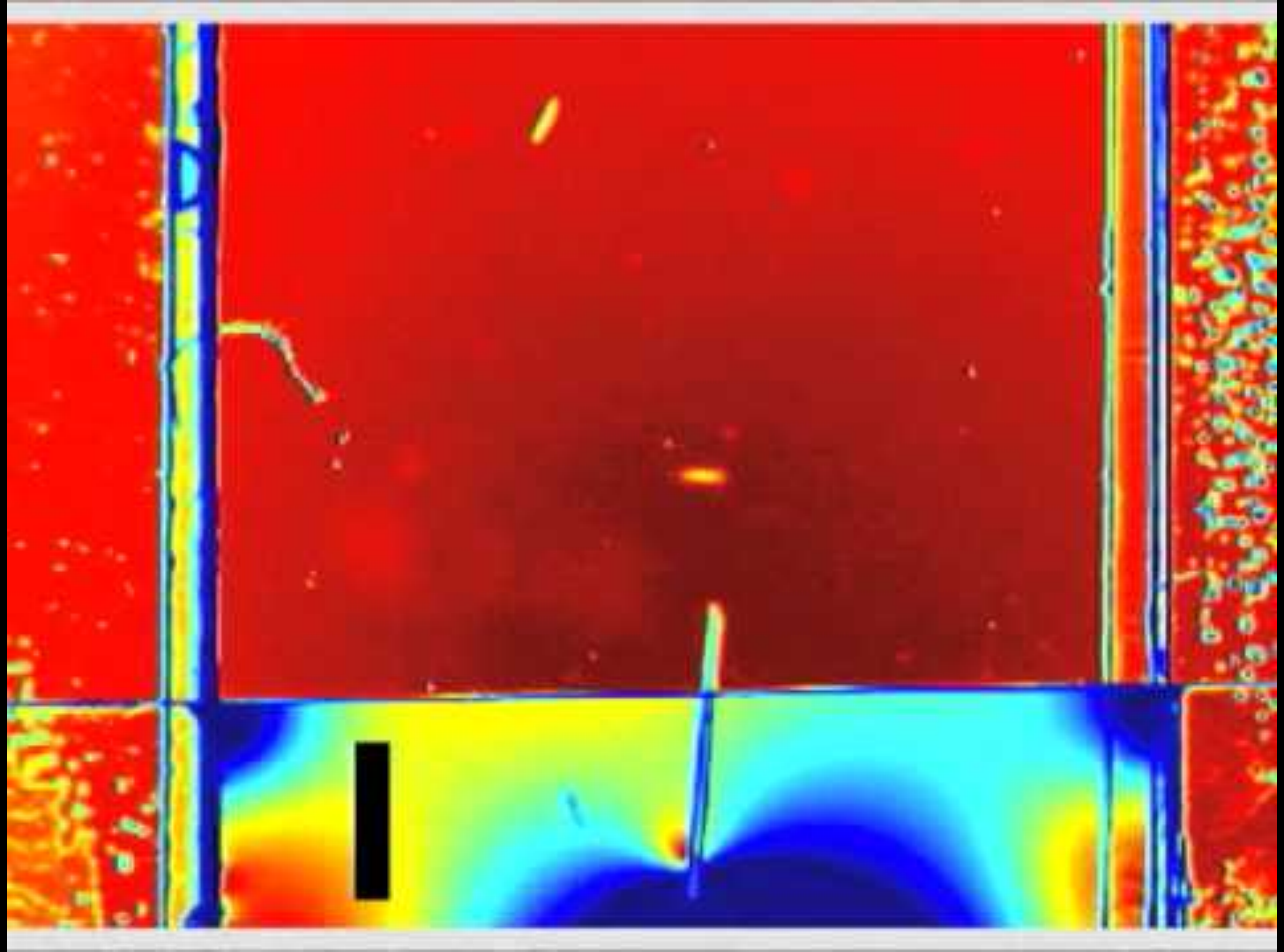


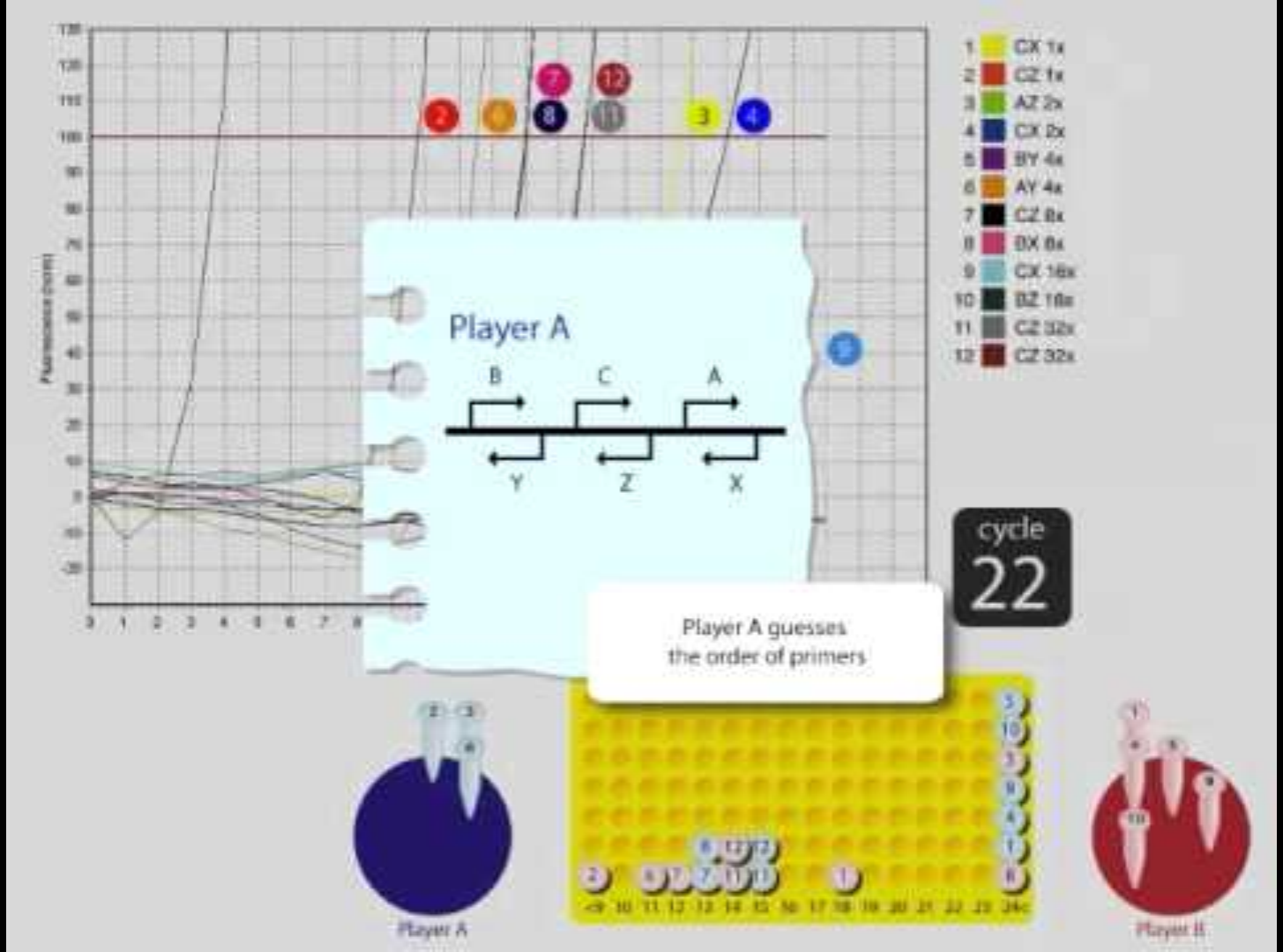
Game controller

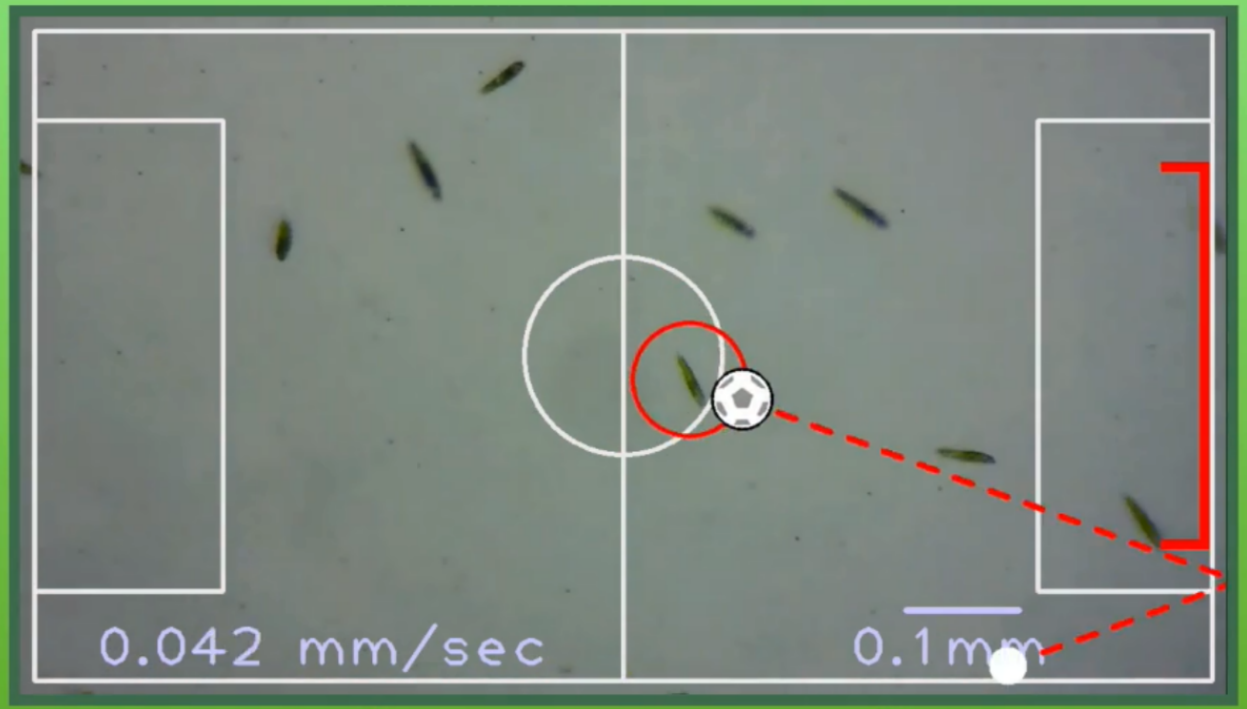


STANFORD BIOENGINEERING Riedel-Kruse Lab ingmar@stanford.edu


START
1
+26
24
Player1
SCORE: 472




1 CX 1x
2 CZ 1x
3 AZ 2x
4 CX 2x
5 BY 4x
6 AY 4x
7 CZ 8x
8 BX 8x
9 CX 16x
10 BZ 16x
11 CZ 32x
12 CZ 32x
Player A
B
C
A
Y
Z
X
cycle
22
Player A guesses
the order of primers
Player A
Player B



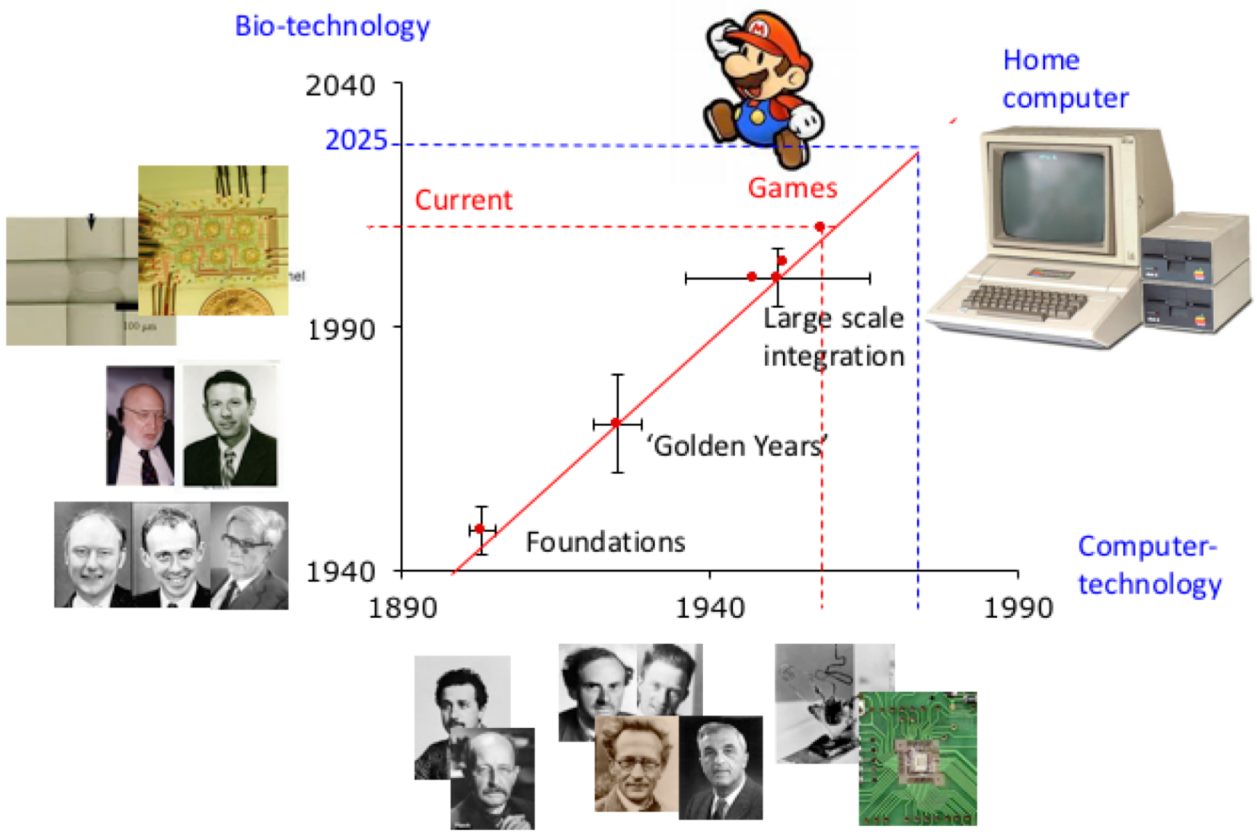
Score: 0

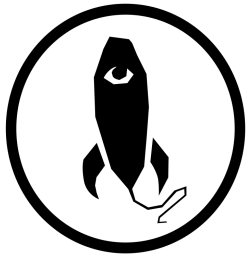
Shoot Ball

Time: 5

09 August 2016
Tuesday

Computer- vs. Bio-tech: 50 year lag



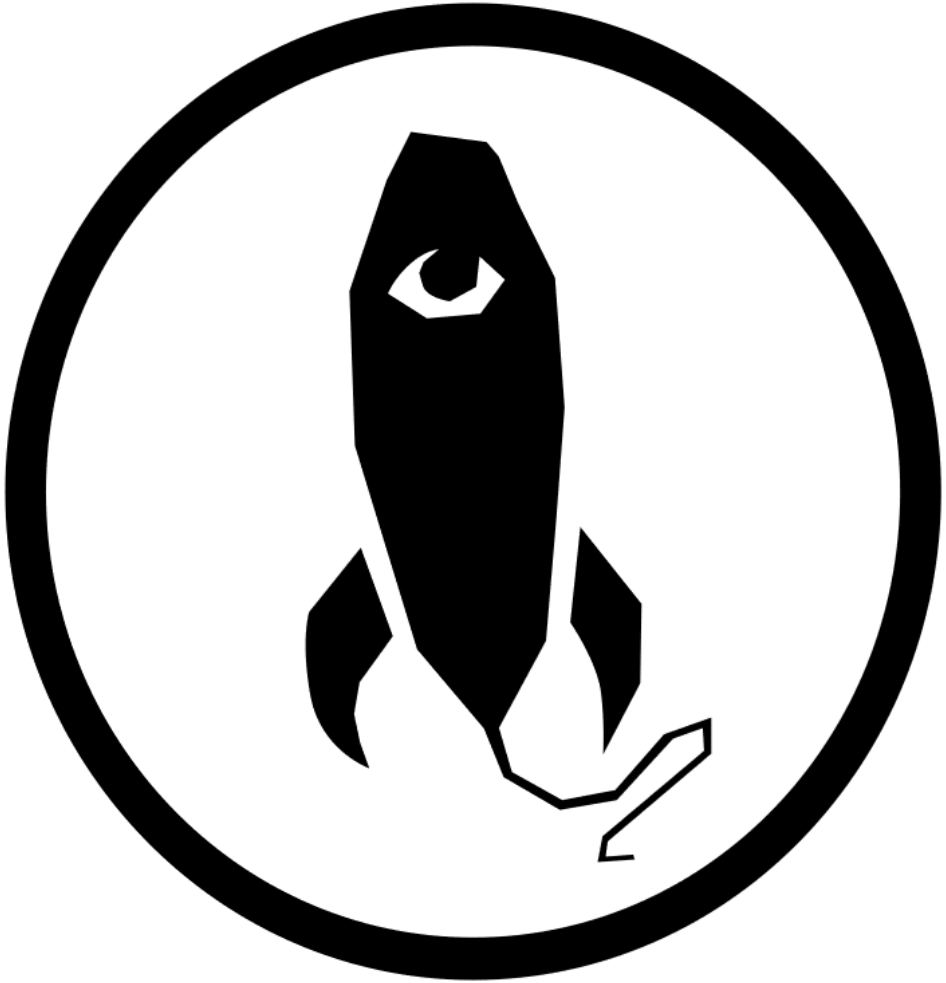


Euglena Spaceships

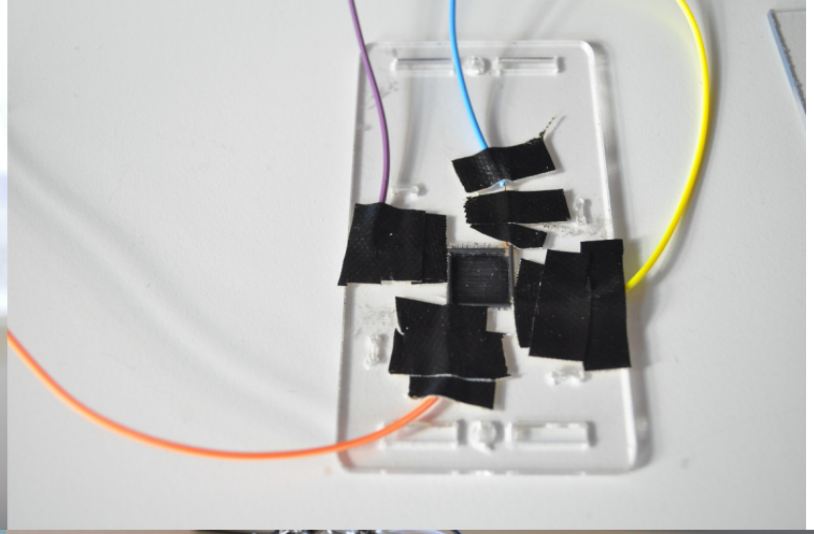
2016

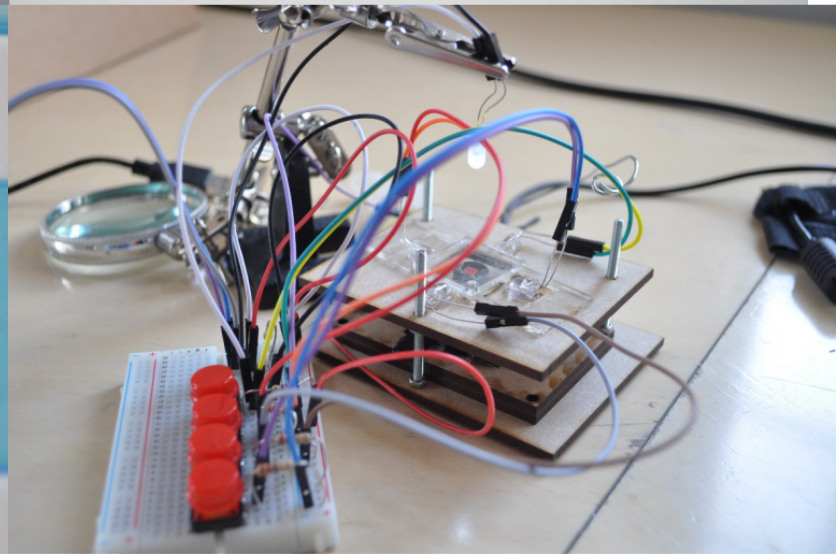
Roland van Dierendonck, Christian Schulz, Pieter van Boheemen (then Waag Society) and Ingmar Riedel-Kruse (Stanford University)

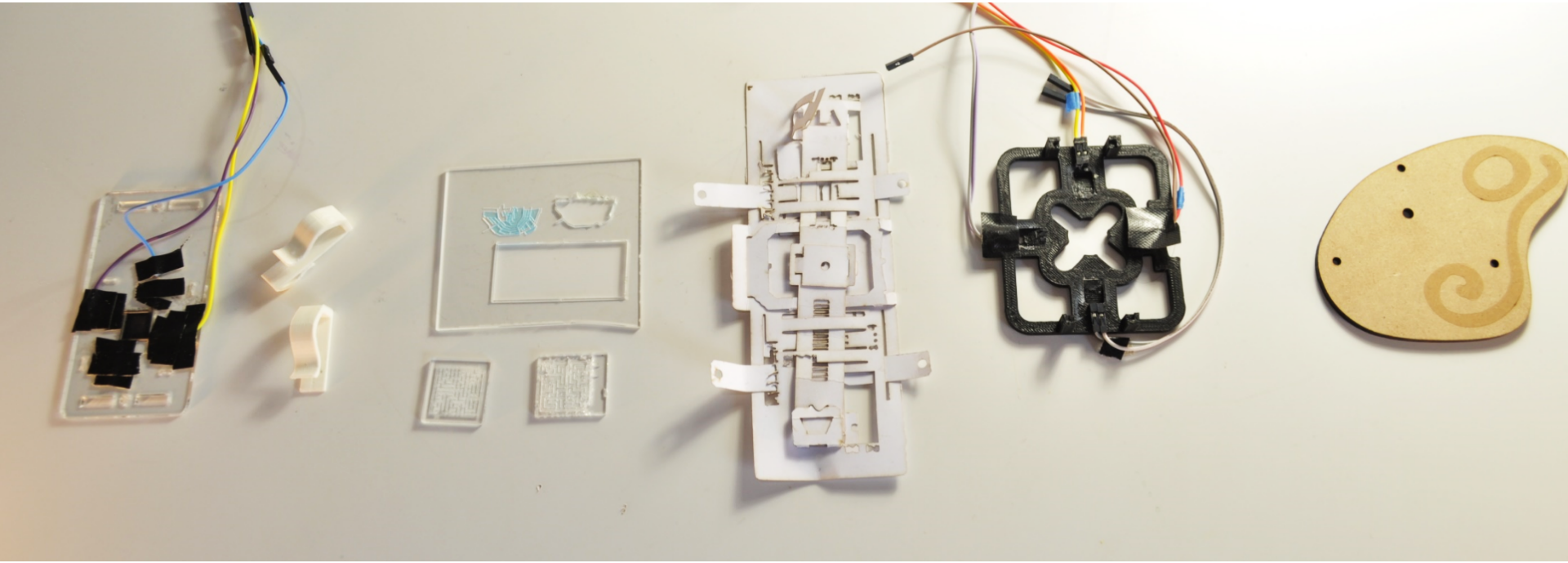
SPACEWAR
V1.71
COPYRIGHT ©1985,1986 B SEILER
= 0
= 0
1 EXIT
2 PLAY
3 ROBOT L
4 ROBOT R
5 PLANET
6 GRAVITY
7 PAUSE

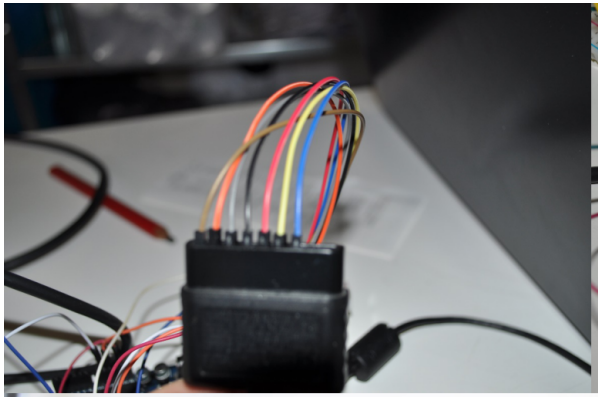


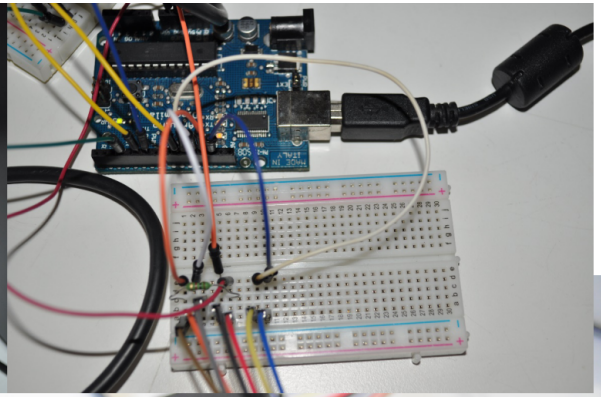
LogiLink







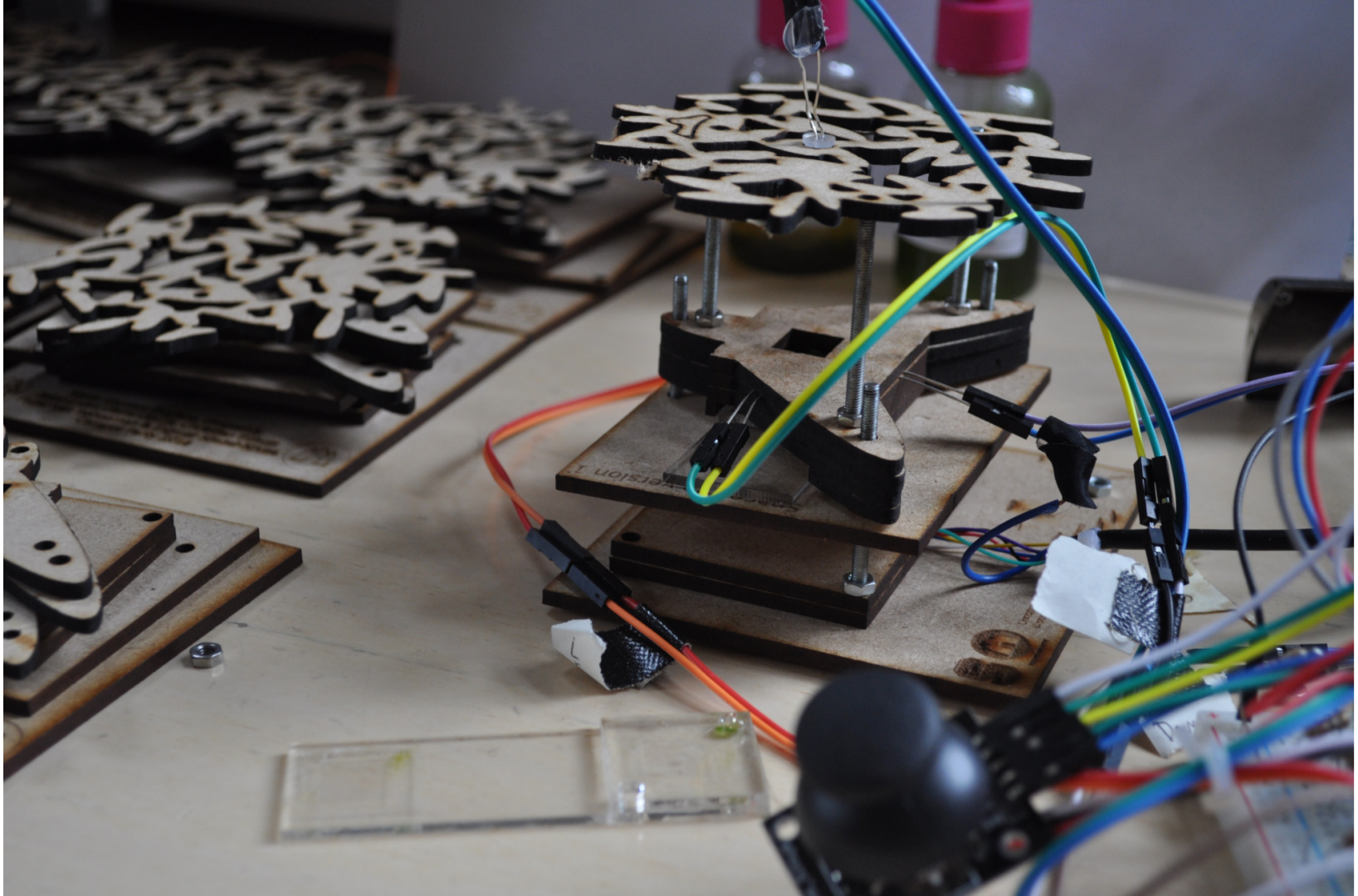


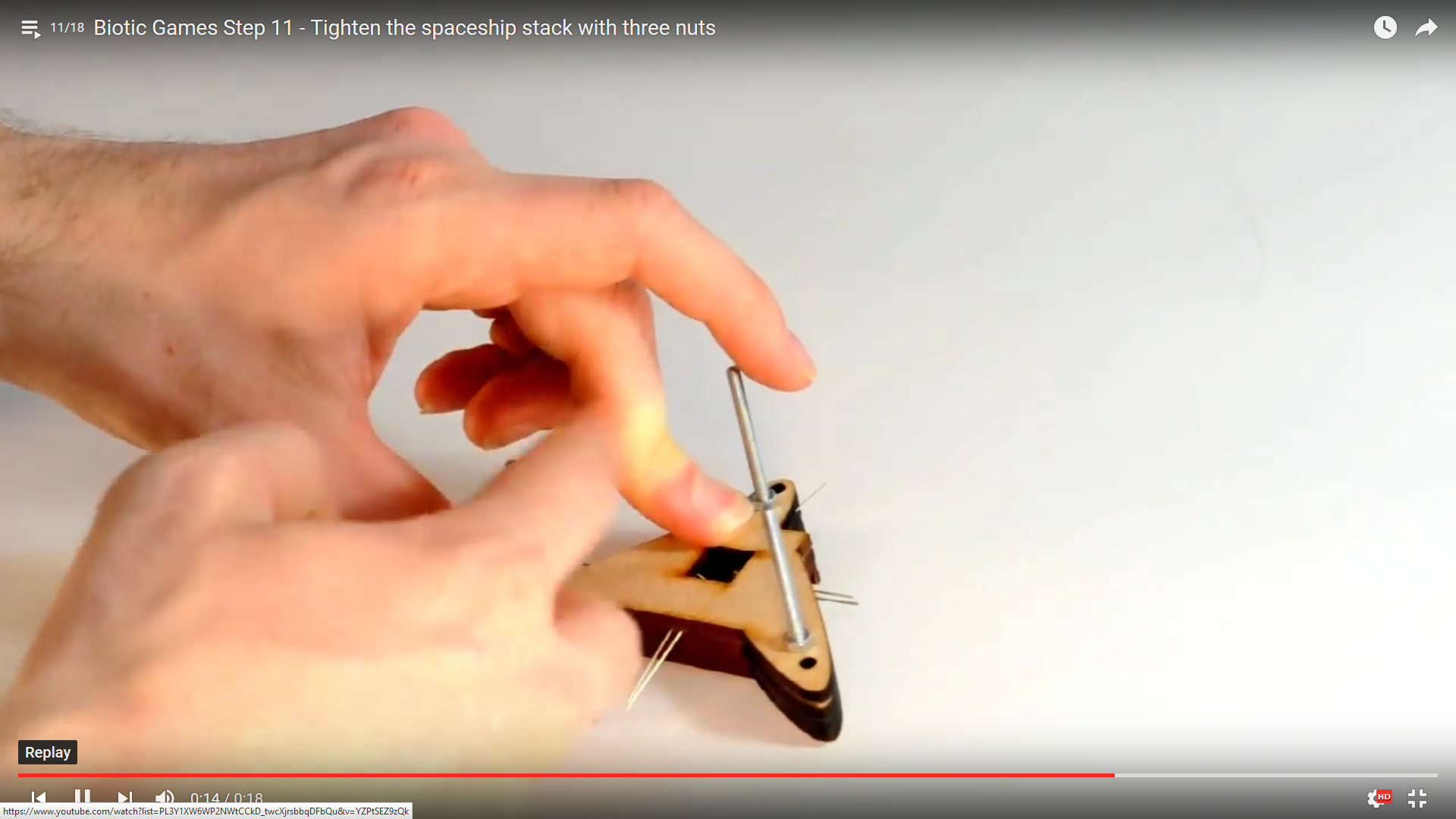


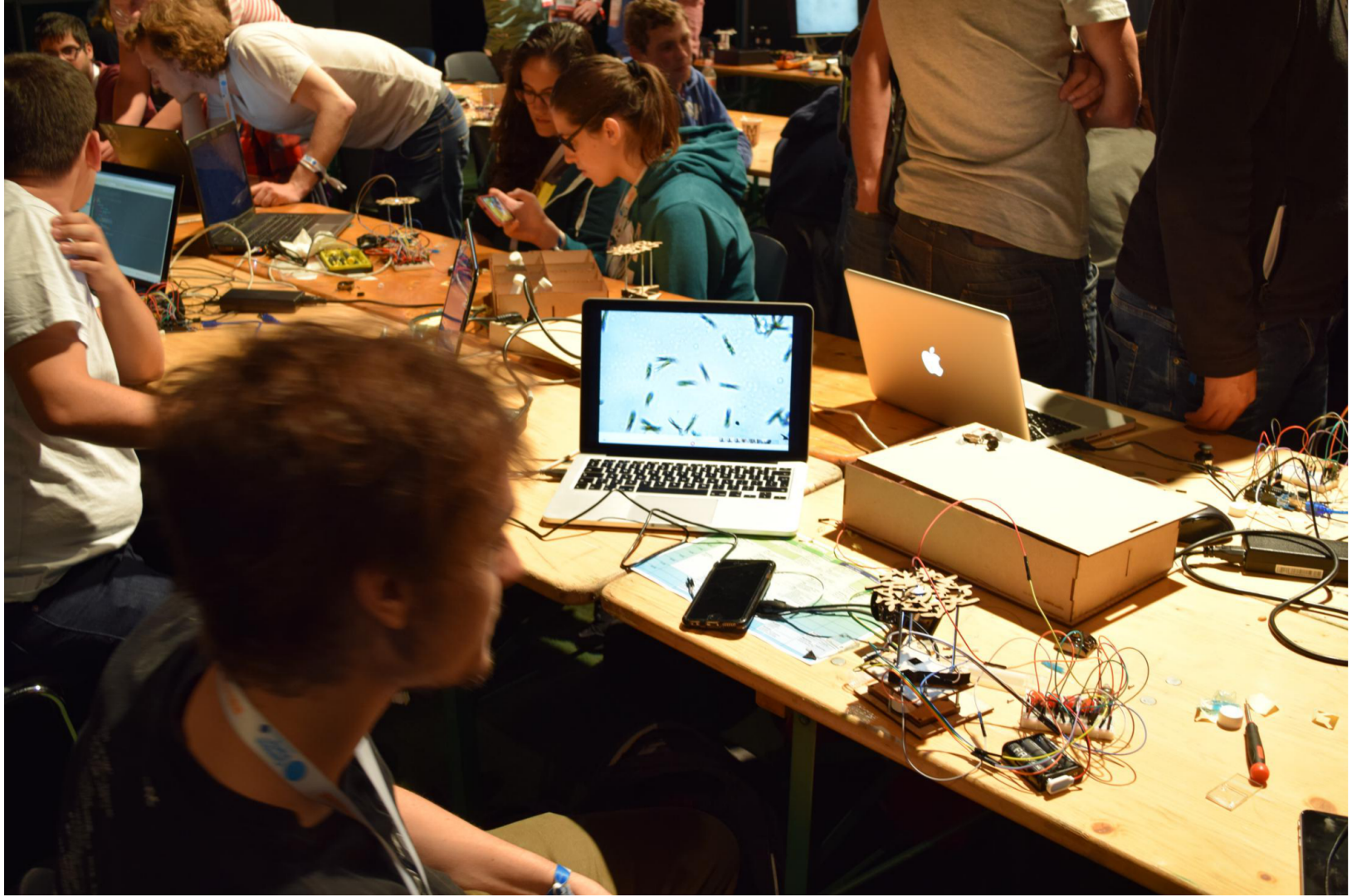
SONY
PlayStation
ANALOG

Algae culture - Euglenophyta
JP530
Euglena gracilis
Phytoflagellate
CAROLINA
15-2800

445, 136
566, 164
341
376

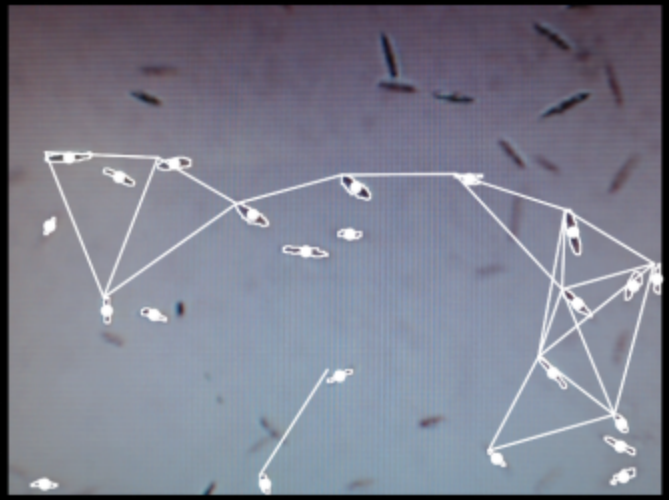


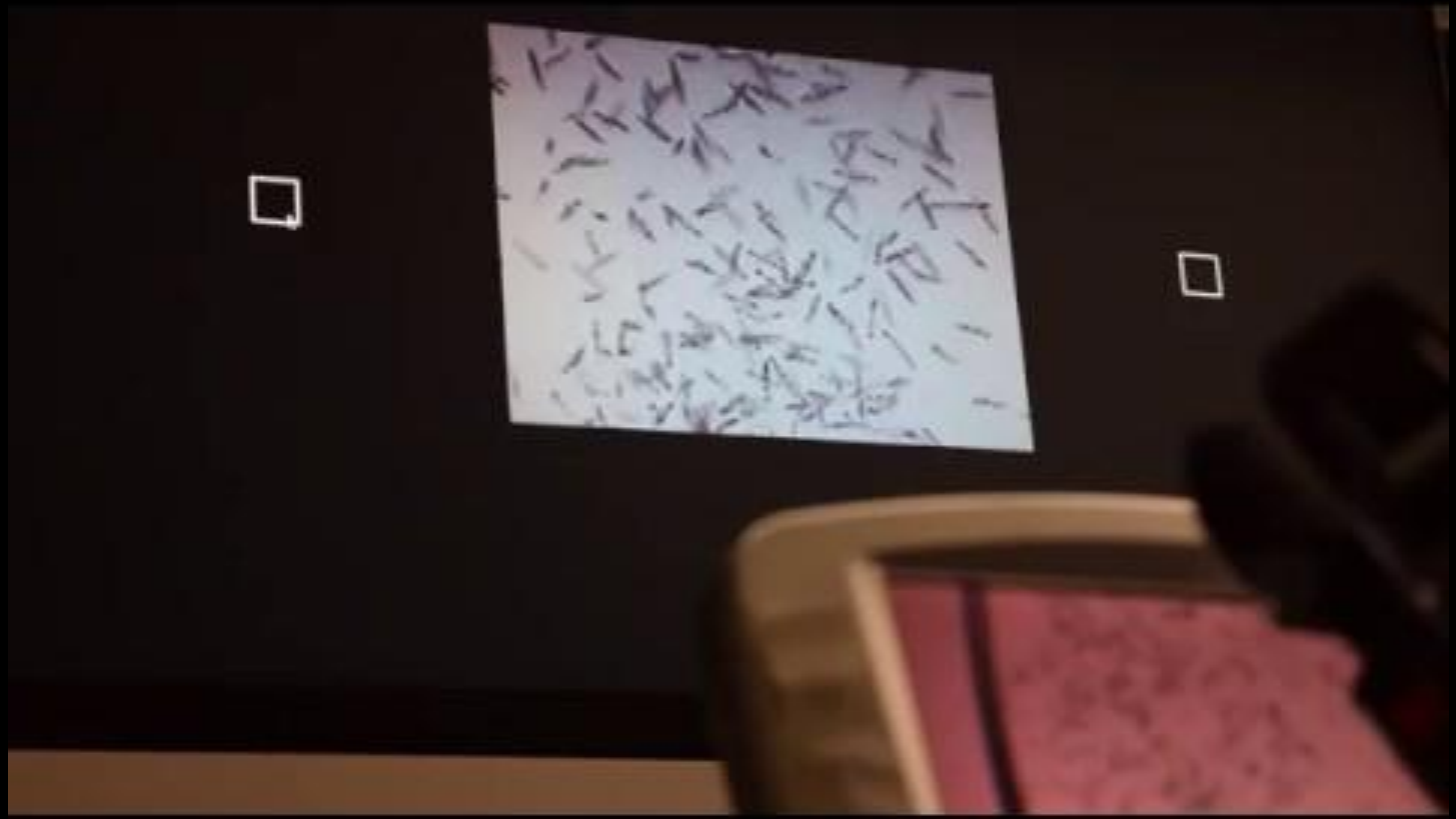

11/18 Biotic Games Step 11 - Tighten the spaceship stack with three nuts
Replay
0:14 / 0:18
https://www.youtube.com/watch?list=PL3Y1XW6WP2NWtCCkD_twcXjrsbbqDFbQu&v=YZPtSEZ9zQk



make your pet
work for you
bio concepts
what pets can do for you

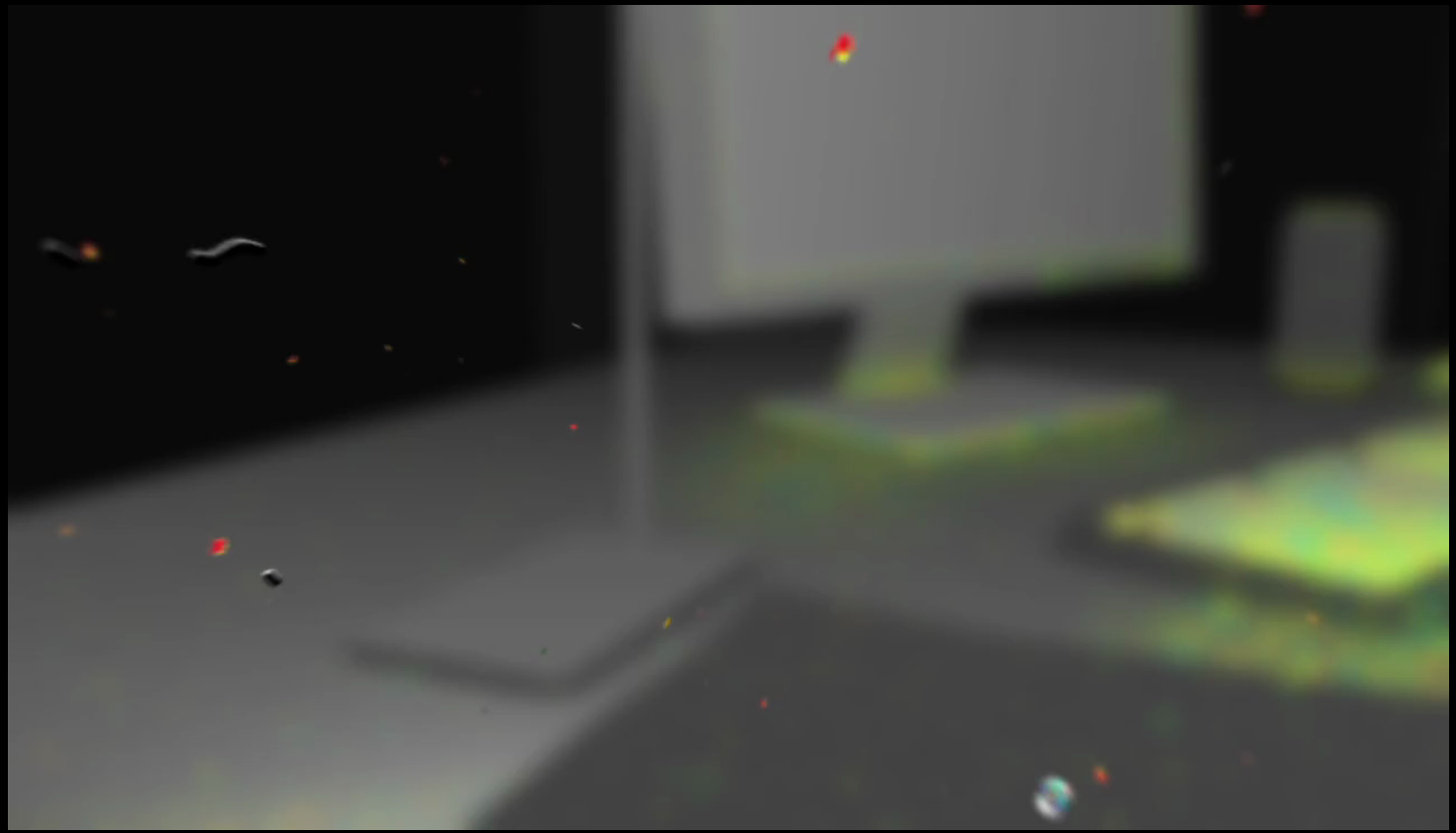
DELL





Mould Rush
GAME OVER

Raphael Kim



CC 3.0 SA - Biology and the Built Environment (BioBE) Center with Cameron Slayden (Cosmocyte)

GAME OVER

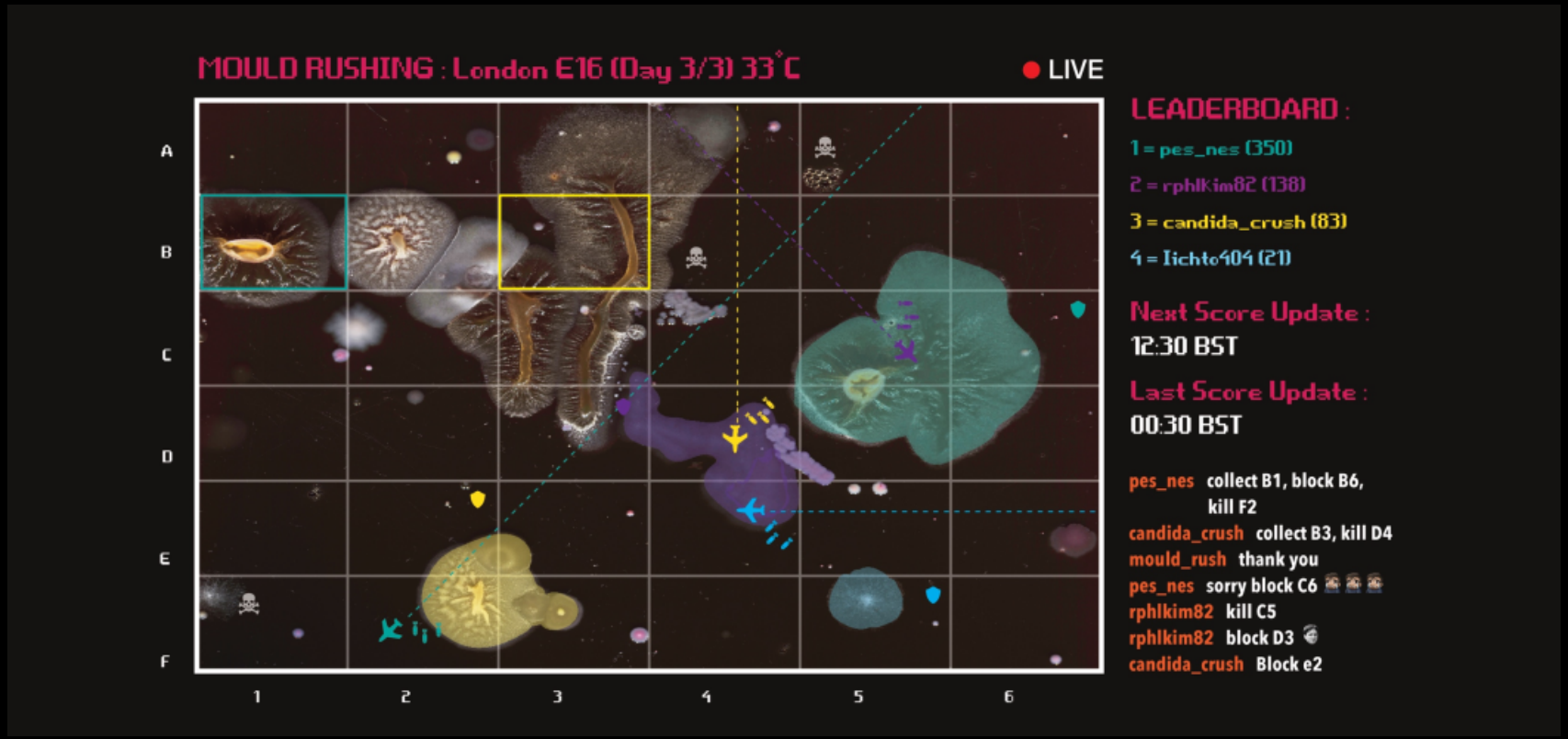


image: Raphael Kim

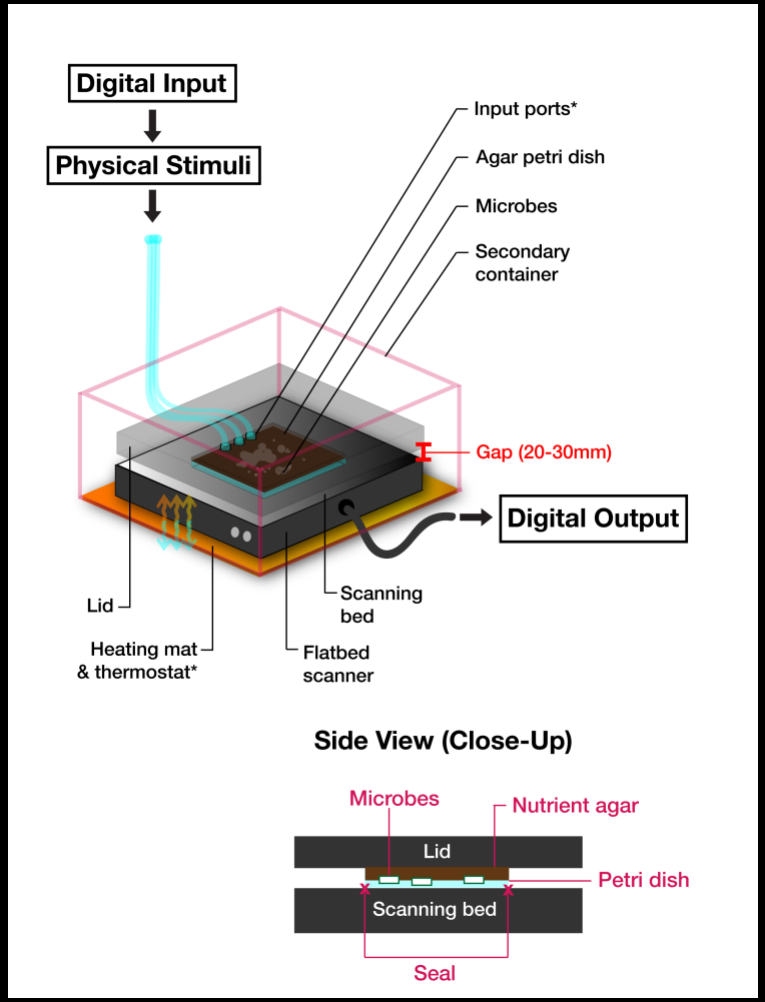
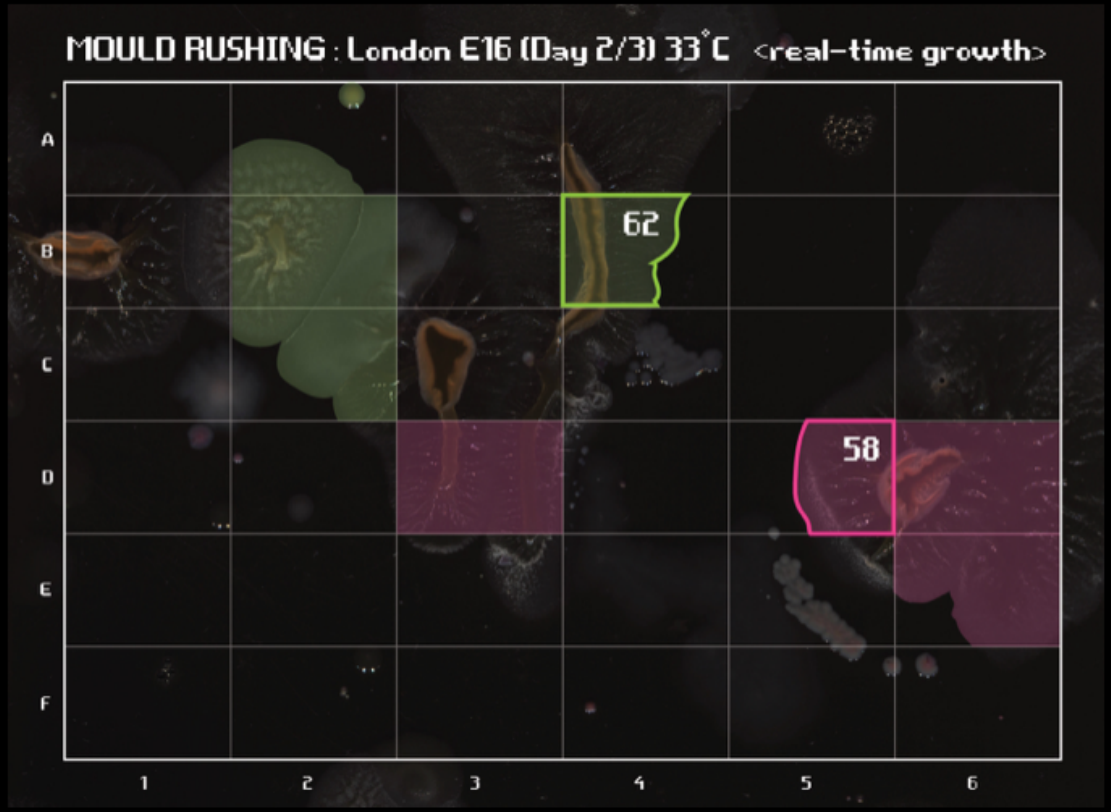


image: Raphael Kim



‘Collect B4’

‘Collect D5’

image: Raphael Kim

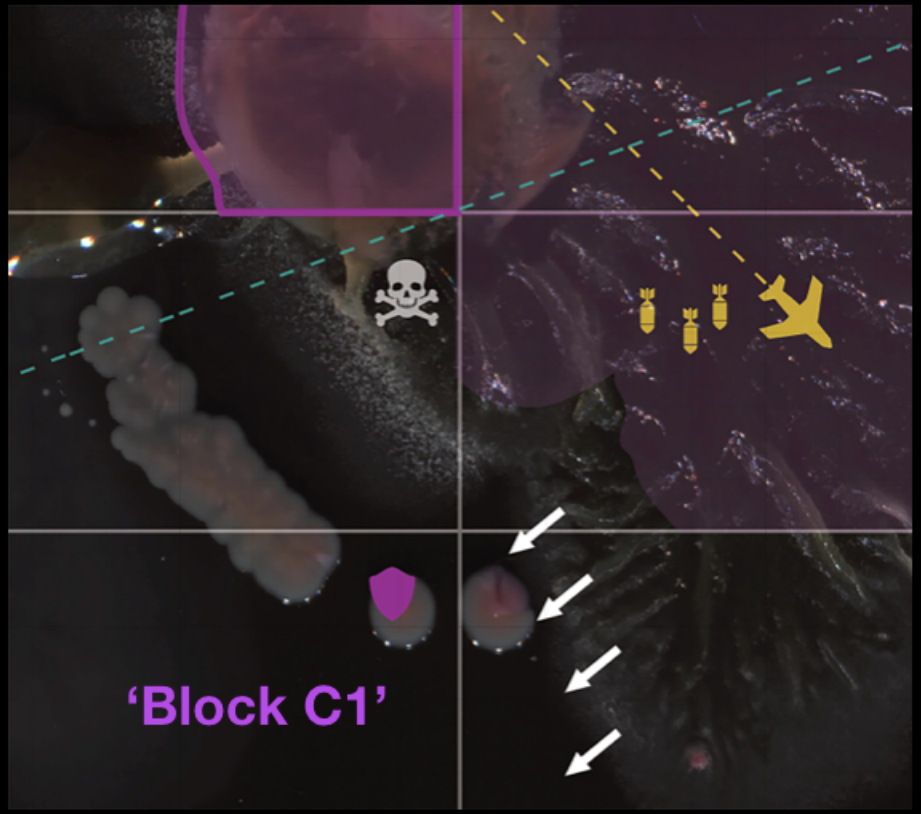


image: Raphael Kim

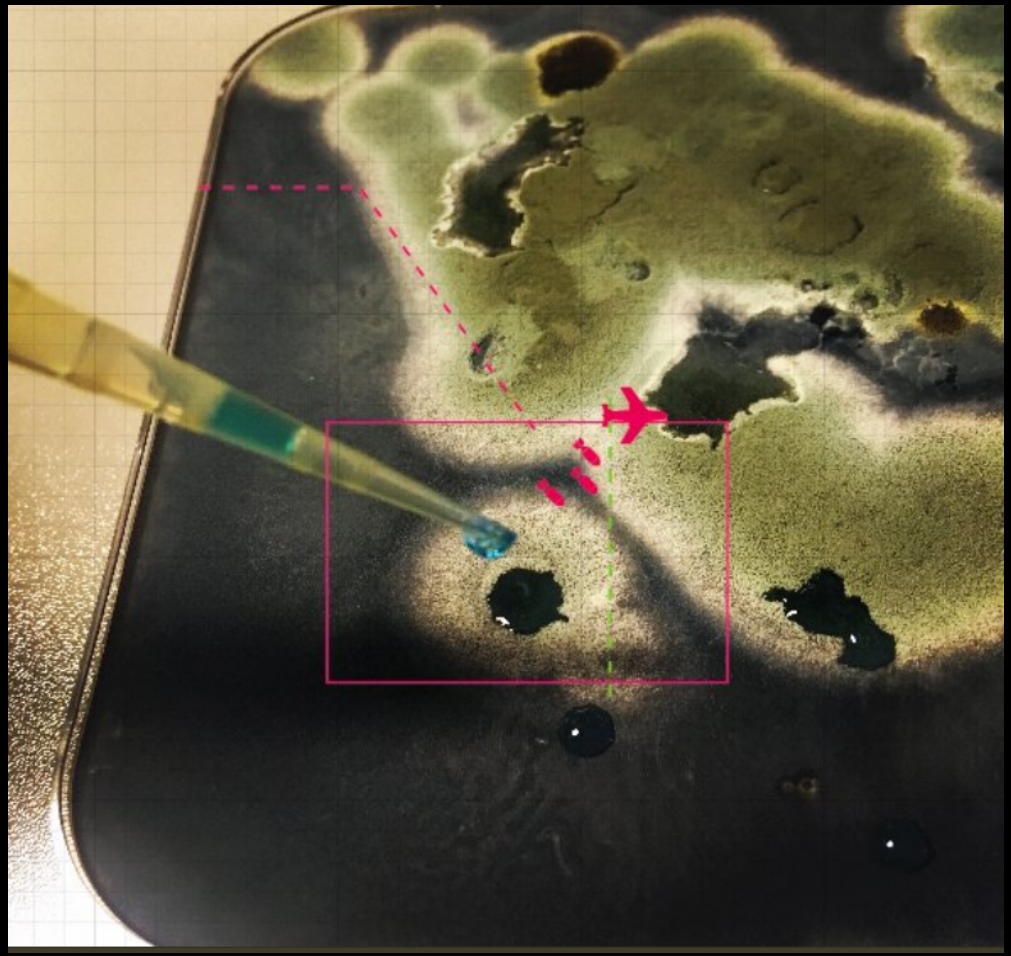


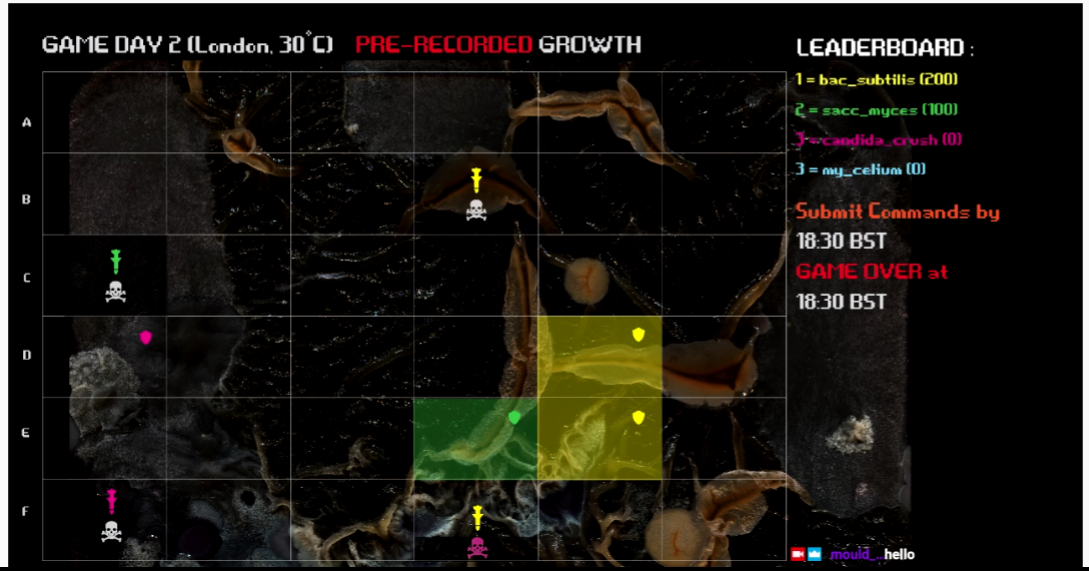
image: Raphael Kim

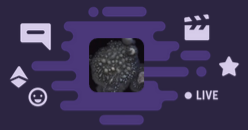
image: Raphael Kim

Browse Get Desktop Try Prime Store ••• Search 11 Get Bits Log in Sign up

mould_rush Videos 39 Events Followers 20 Following 13 Follow

Chat on Videos





Sign up to experience the best of **mould_rush**:

- Chat with other fans
- Capture your favorite moments
- Watch in Dark Mode!

Sign up

Featured Channels

DreamHackCS
Counter-Strike: Global Offensive

MegTurney
Board Games

SpeedGaming
Disney's Toy Story

Join the chat while watching the video!

Post a message

Post at 7:09:41

https://www.twitch.tv/mould_rush/