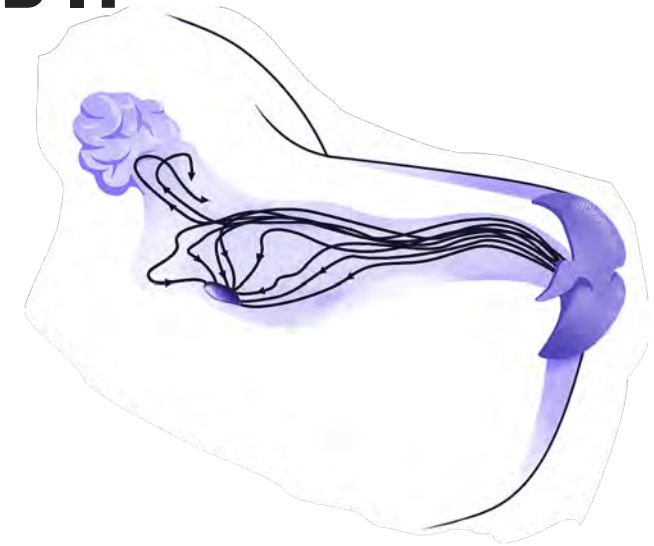
THE FUTURE IS ¬

UNKNOWN


READ THE AIR


READ THE AIR - NATURE'S
DESIGN

SMELL IS HARD, THE DOG SOLVED IT



Olfactory Bulb

Mitral-cell

Glomerulus

4. Signal To Brain

3. Signal Processing

2. Neurons Send Electric Signals

Air with Odorant molecules

1. Odorants Binds To Receptors

Odorant Receptor (GPCR)

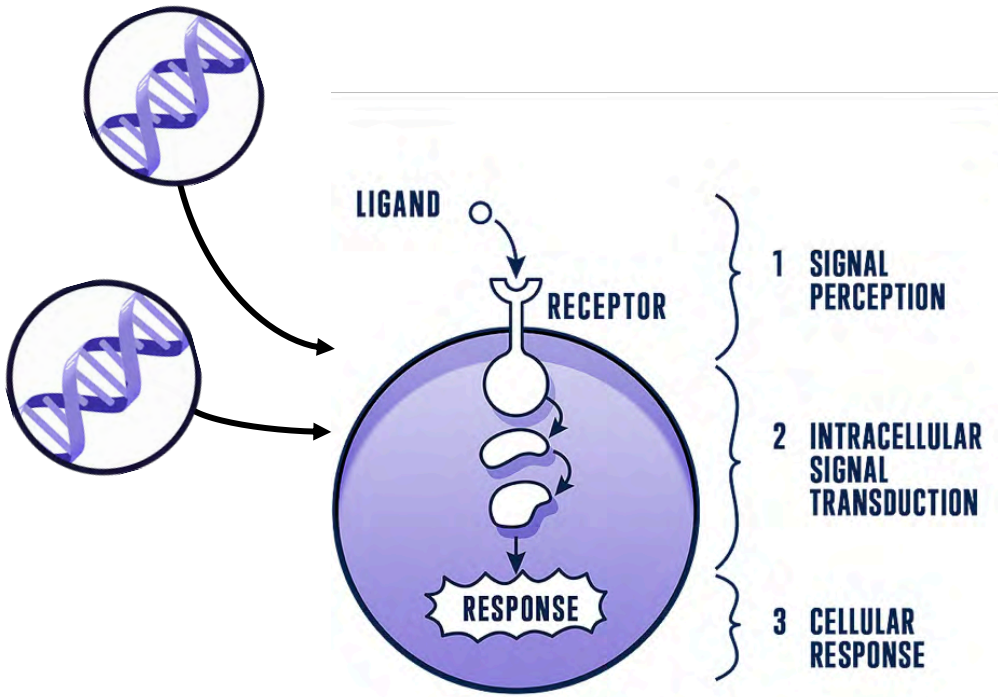
Neurons

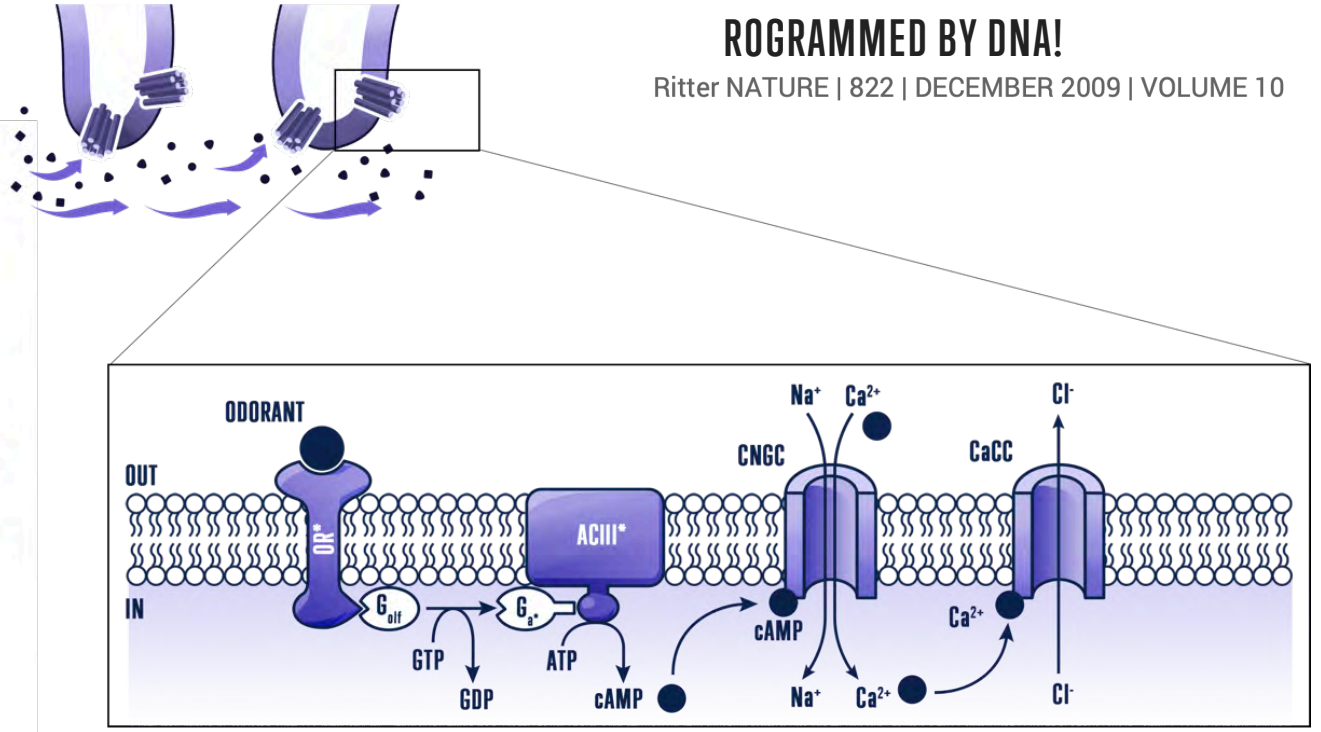
AN INSTRUCTABLE MACHINE

A LIVING SELF REGENERATING CIRCUIT

ROGRAMMED BY DNA!

Ritter NATURE | 822 | DECEMBER 2009 | VOLUME 10





WE SOLVED SMELL DETECTION

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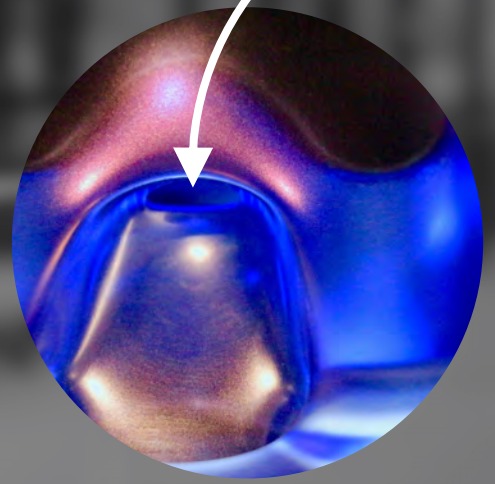
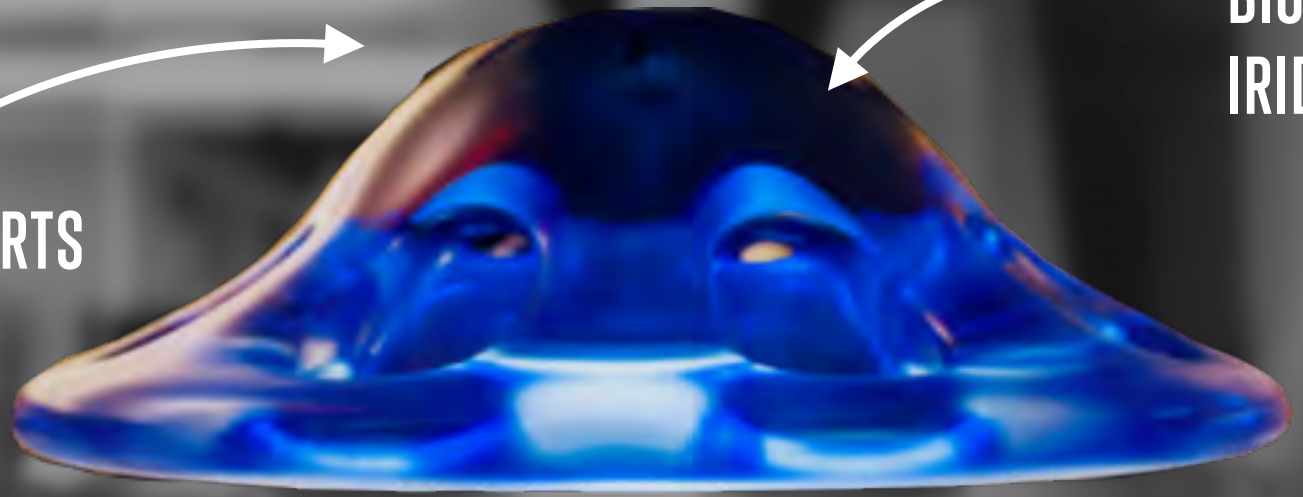
BIOINSPIRED IRIDESCENCE

BREATHING PORTS





PATENT PENDING

BIOINSPIRED JELLYFISH SHAPE

A synthetic biology IoT & ML platform, deployable across verticals with a uniform data stream

KONIKU

MAKE THE INVISIBLE, VISIBLE

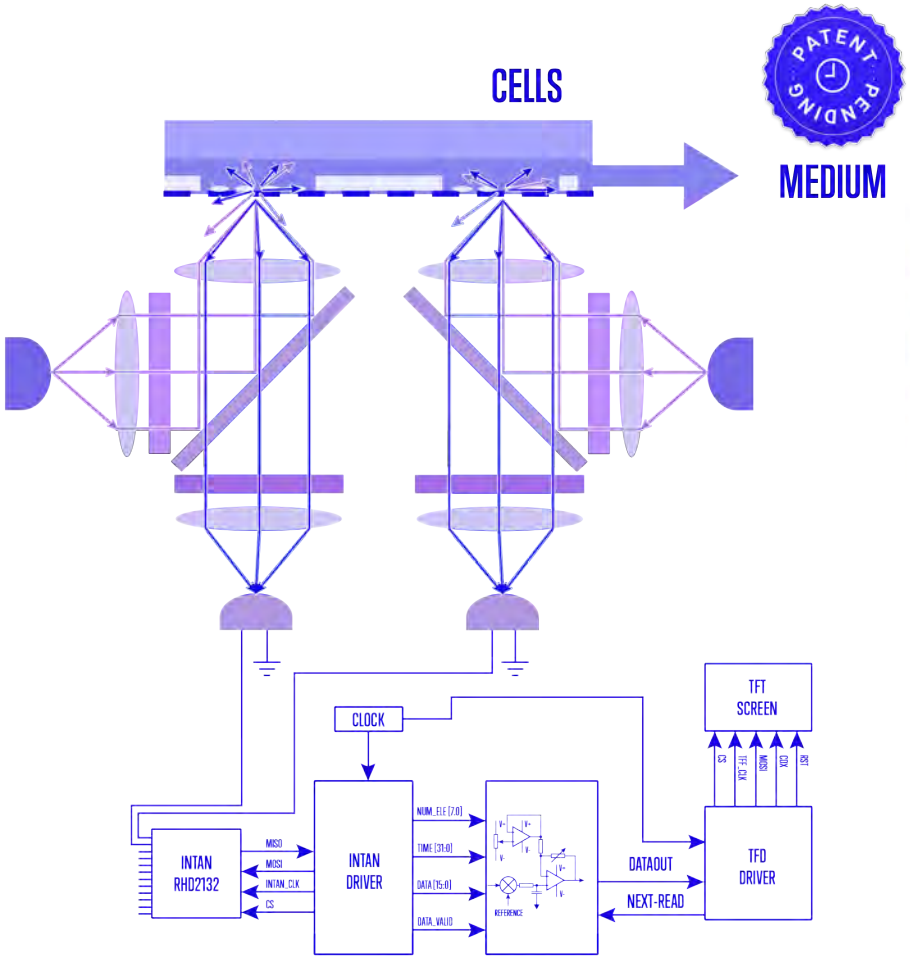
EXPLOSIVES

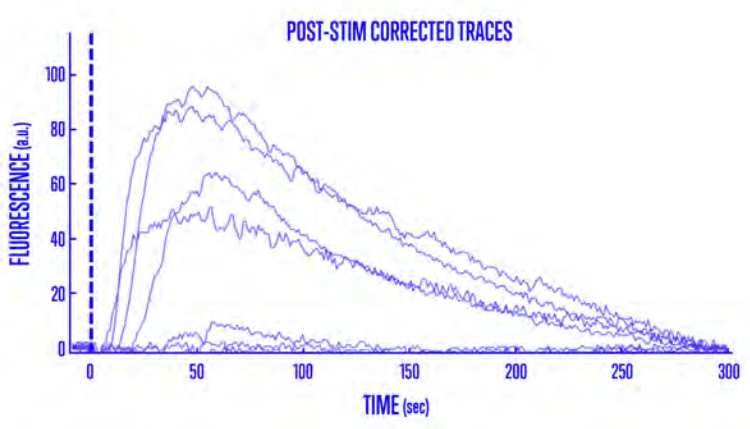
CONTRABANDS

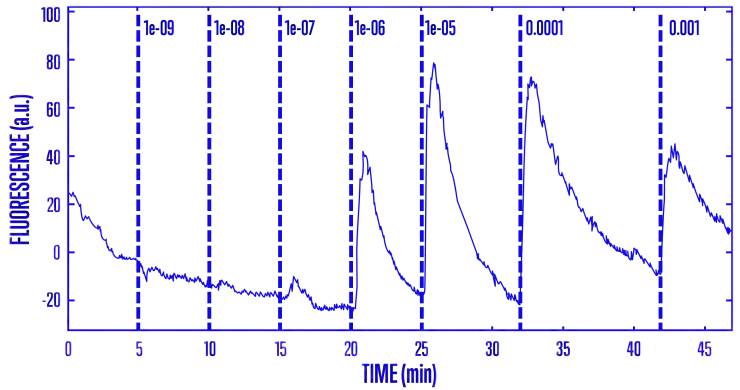
WMD's

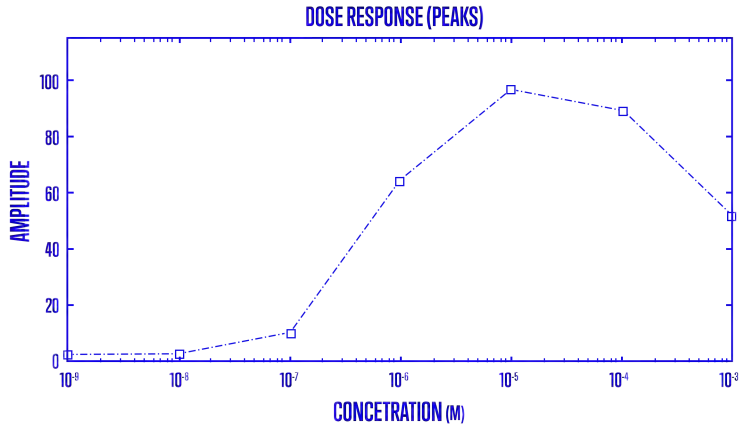
Airport & public space security aims to exclude weapons, explosives, drugs, weapons of mass destruction e.g. chemical & biological weapons out. Volatile organic compounds (VOC's) or smells which a dog can also detect ties all of these substances together. What if you could miniaturize an actual dog to the size of a smartphone?

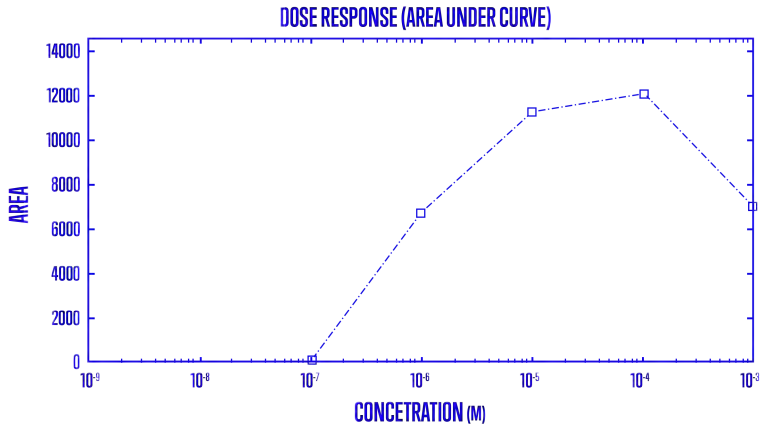
HOME MADE EXPLOSIVE COMPOUND -



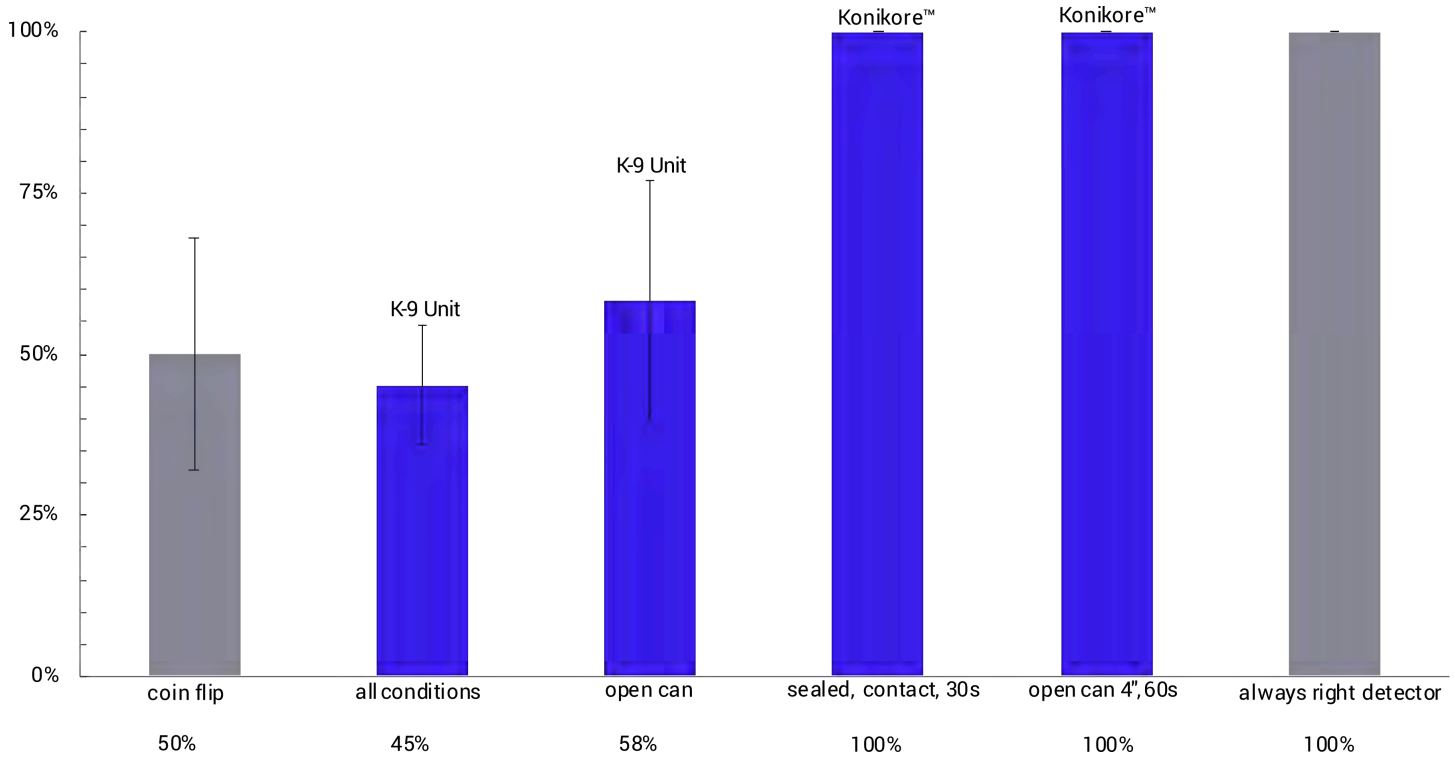








DEPLOYMENT - Q4 2020, & CLINICAL TRIALS - EUA Q1 2021



FDA

TAGETING EMERGENCY USE AUTHORIZATION (EUA) Q1 2021

Bloomberg

FT FINANCIAL TIMES

QUARTZ qz.com

BBC

THE OIL & GAS INDUSTRY: A VOC'S ENDUSER

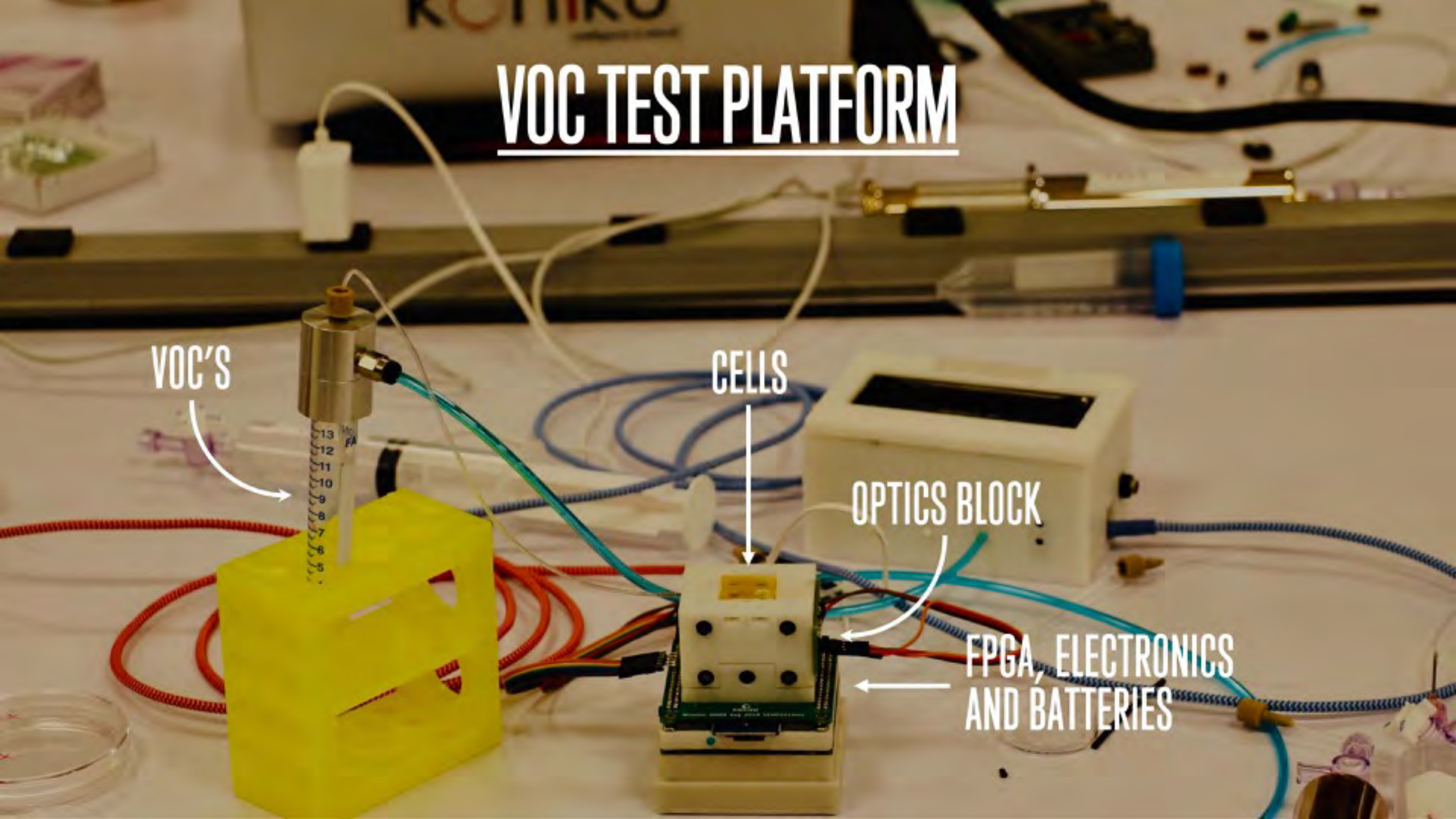
SPILLS

DETECTION

MONITORING

EXPLORATION

VOC TEST PLATFORM



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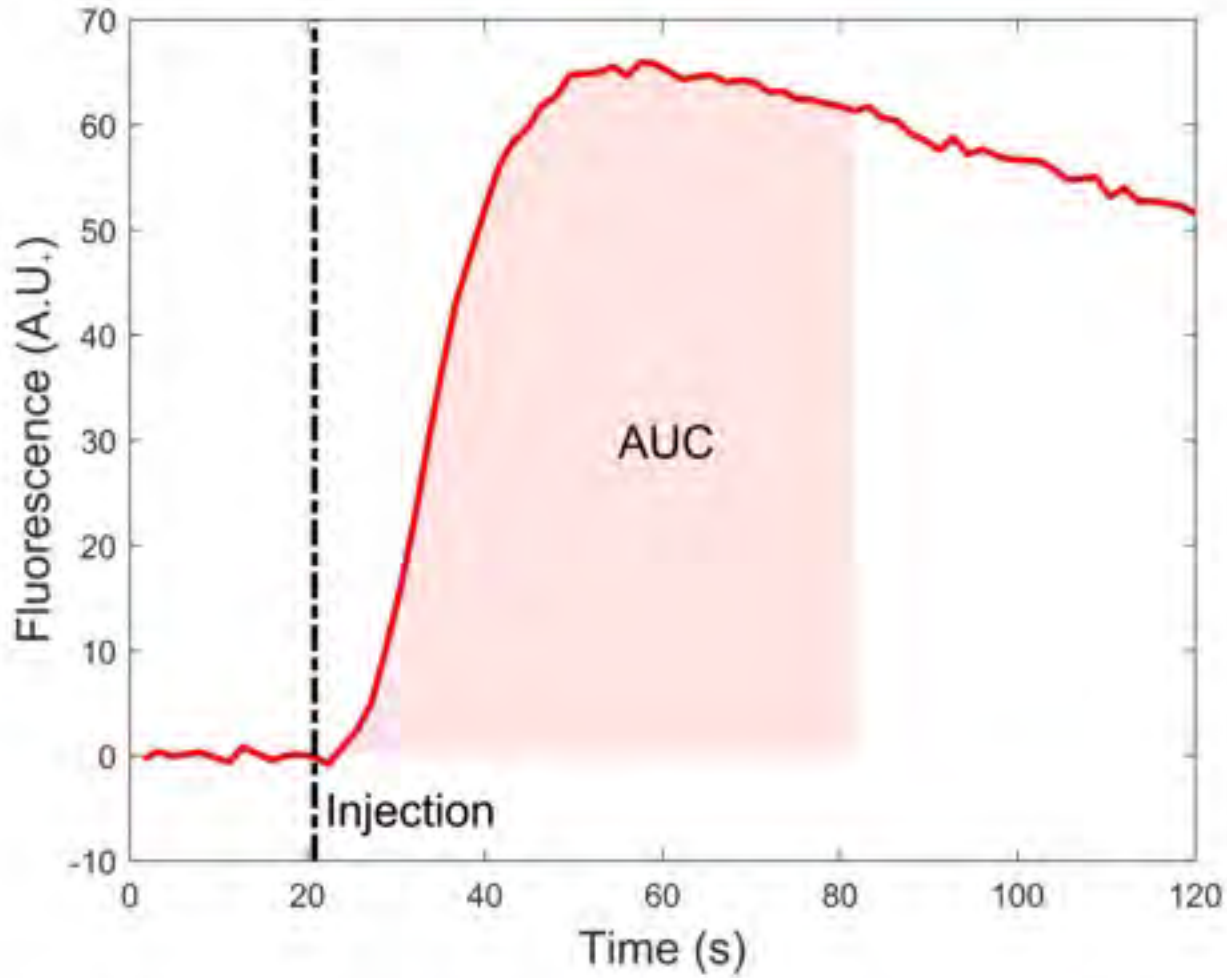
MAKE THE INVISIBLE, VISIBLE



Raw fluorescence signal upon stimulation 10µM naphthalene. The red area represents the calculated response intensity.

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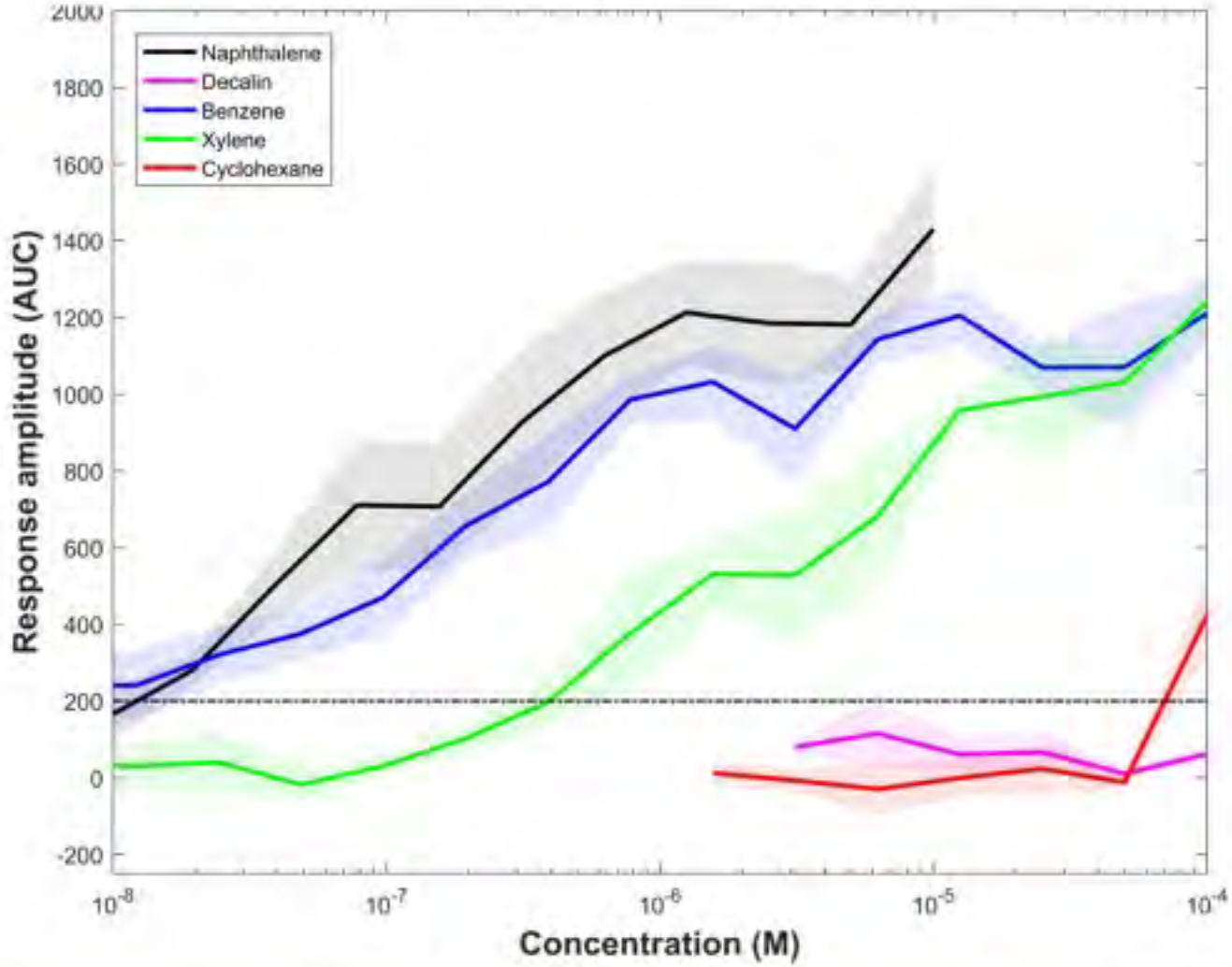
RECEPTOR SCREENING & CHARACTERIZATION



Six receptors were characterized further by measuring responses to varying doses of the compounds, down to their respective limits of detection.

LOD'S FOR SELECT OIL & GAS COMPOUNDS

	Naphthalene	Benzene	Xylene	Cyclohexane
RECEPTOR 1	10 nM	10 nM	400 nM	70 µM
RECEPTOR 2	600 nM	20 µM	20 µM	60 µM
RECEPTOR 3	1 µM	60 µM	50 µM	N.A
RECEPTOR 4	400 nM	60 µM	20 uM	N.A
RECEPTOR 5	N.A.	30 µM	N.A.	50 µM
RECEPTOR 6	N.A.	50 µM	N.A	60 µM

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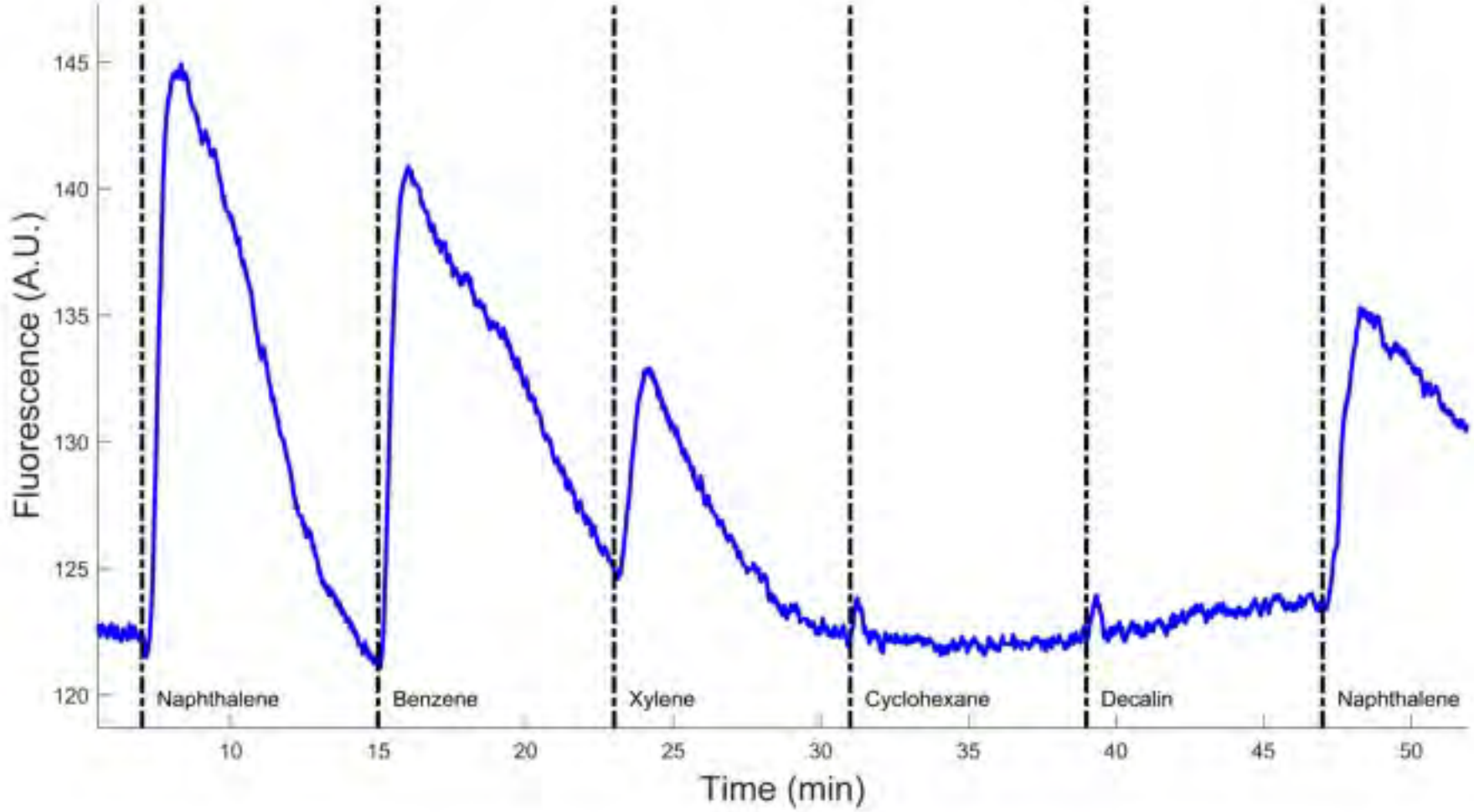

Biochips were loaded with relevant receptors their ability to detect 5 compounds of interest was tested in the gas-phase. Raw data is shown. The cells responded robustly to naphthalene and benzene, and to a lesser extent to xylene. As expected from the previously determined LODs, no response was observed for cyclohexane and decalin.

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OPPORTUNITIES

SPILLS

DETECTION

MONITORING

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NOBELPRISET The Nobel Prize

THE NOBEL PRIZE

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