

# Zimmer & Peacock

---

## Summary- Red Hot Chillies to Patients

eSensio Manufacturing and Technology

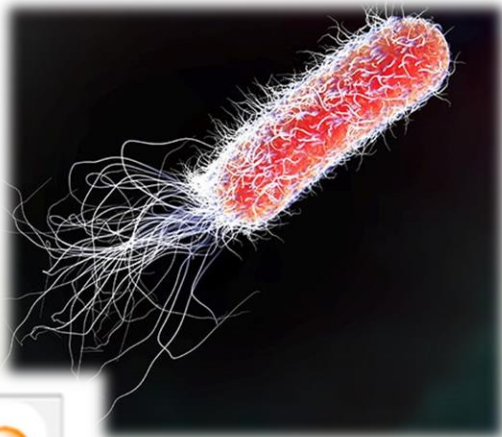
---

2018



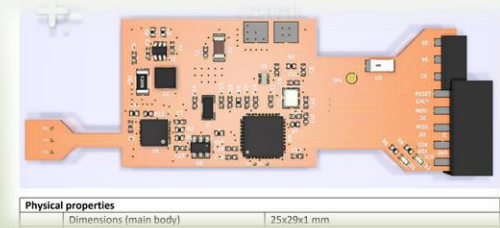
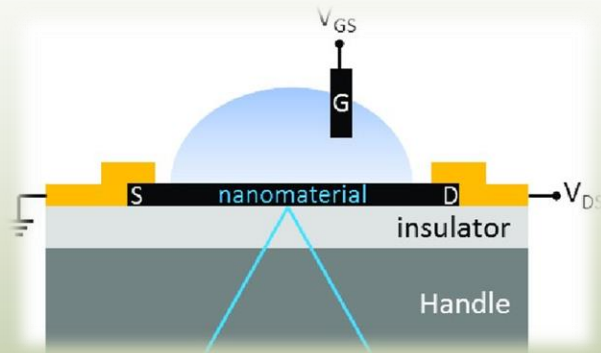
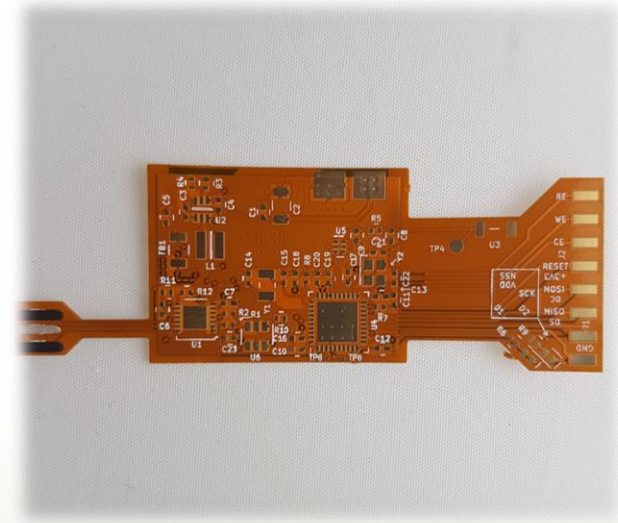
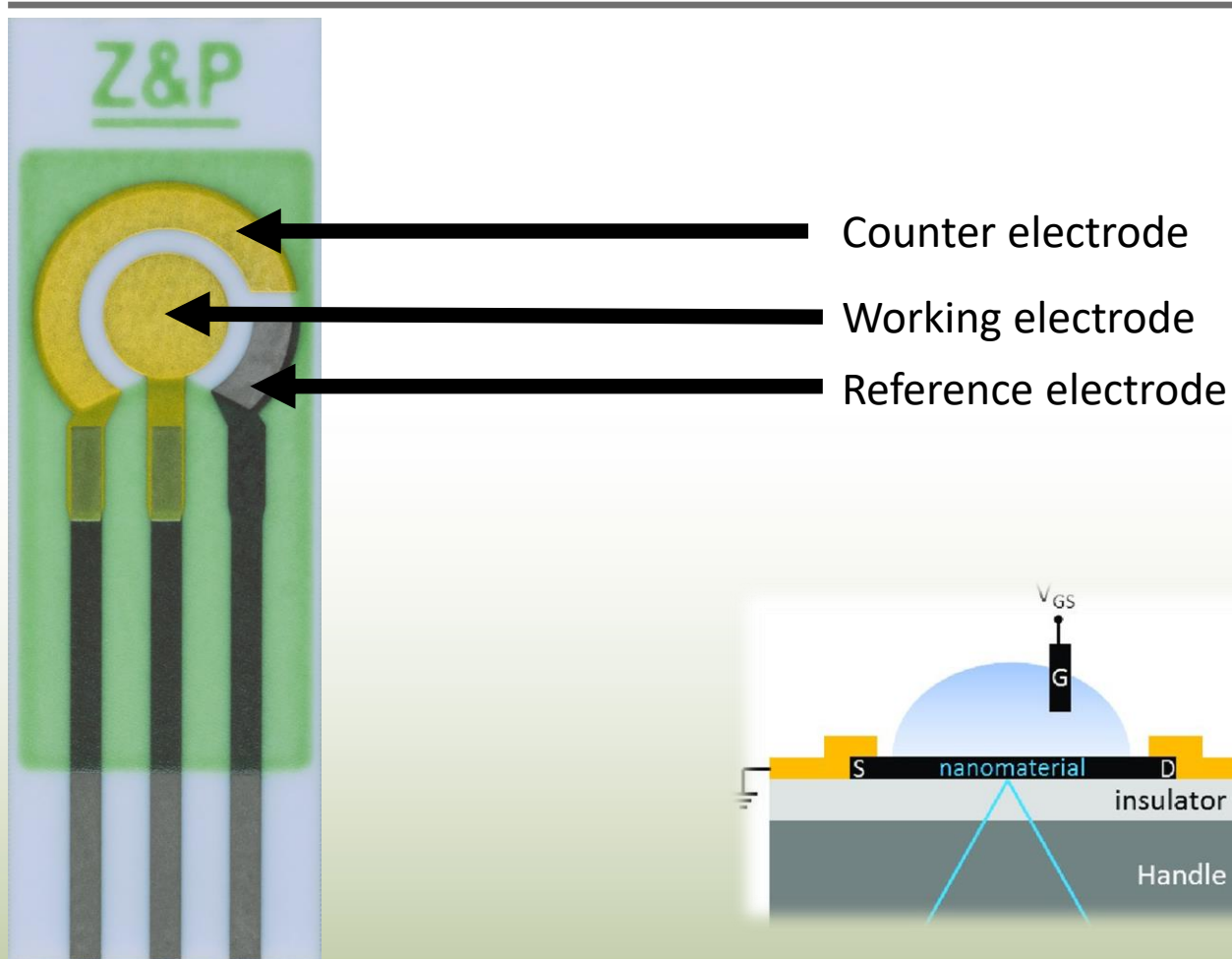
# What do sensors mean for ZP

- We like measuring things and sensing things?



Zimmer & Peacock

# An anatomy lesson

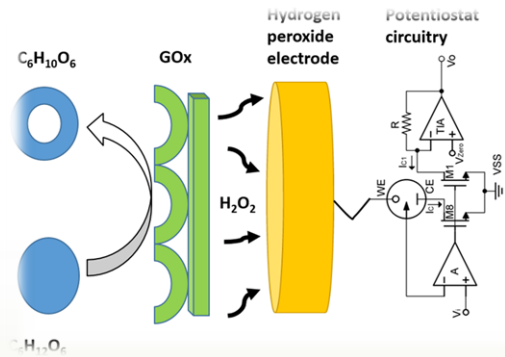


Physical properties	
Dimensions (main body)	25x29x1 mm

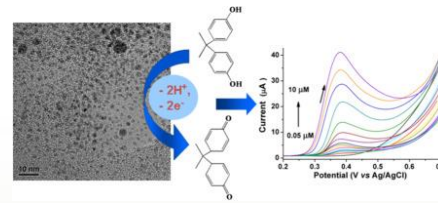
Zimmer & Peacock

# Electrochemistry How does our science work?

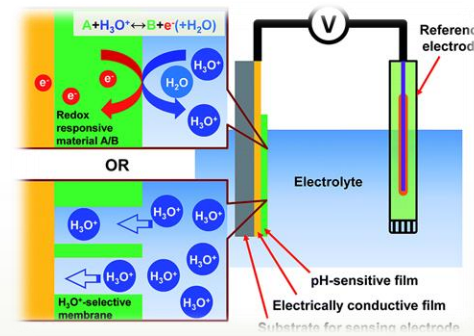
## Amperometric



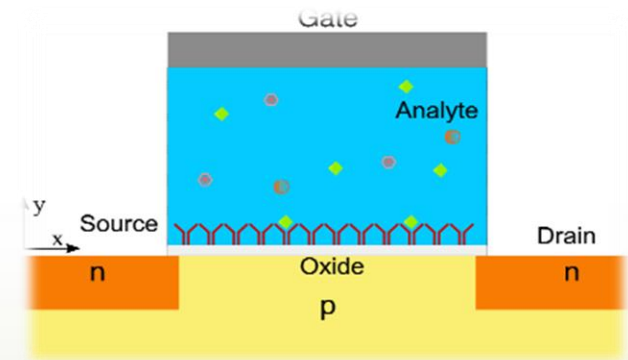
## Voltammetric



## Potentiometric




## Bio-FET





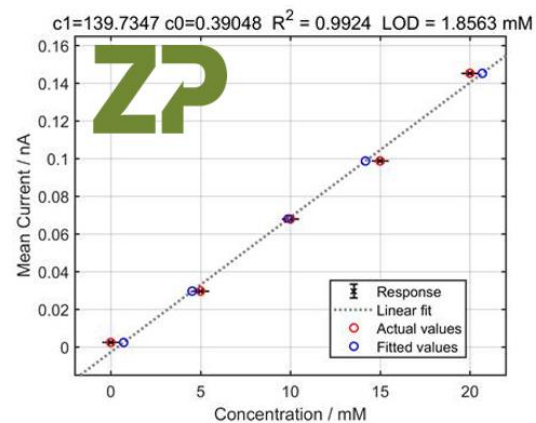
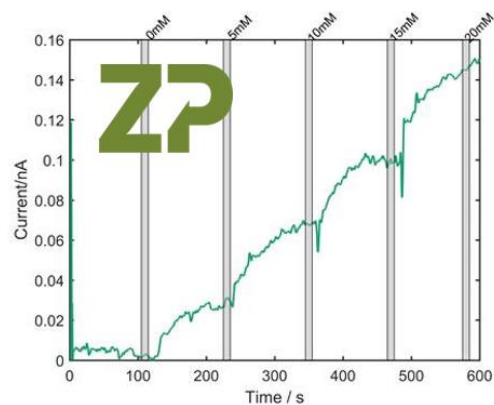
# Sensors

$O_2$ ZP	$K^+$ ZP	Lac ZP
$H_2O_2$ ZP	Glu ZP	Chilli ZP
★ pH ZP	$Na^+$ ZP	

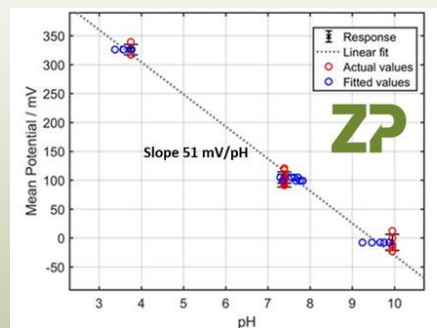
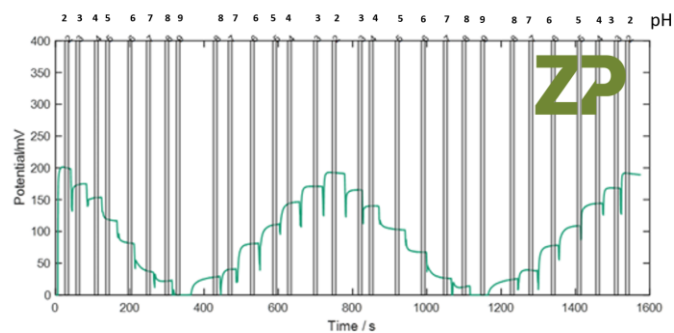


# What does a signal look like?

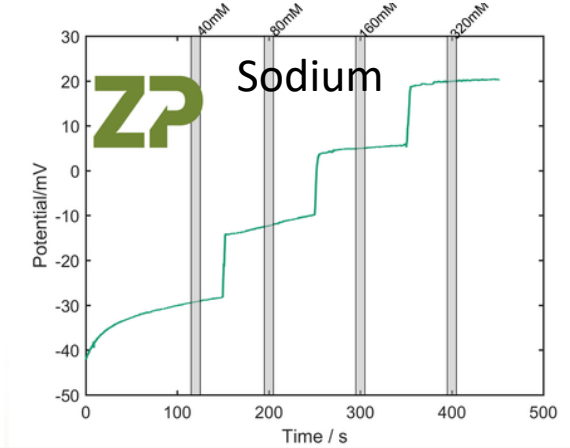
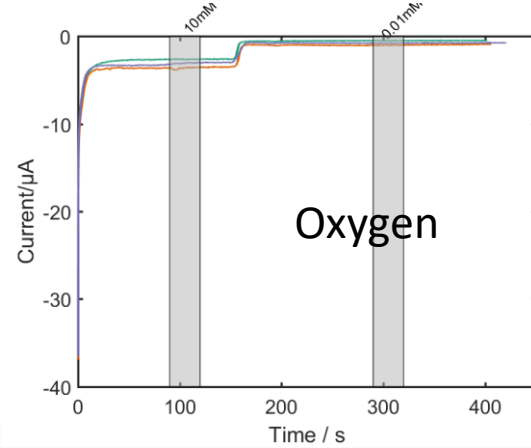
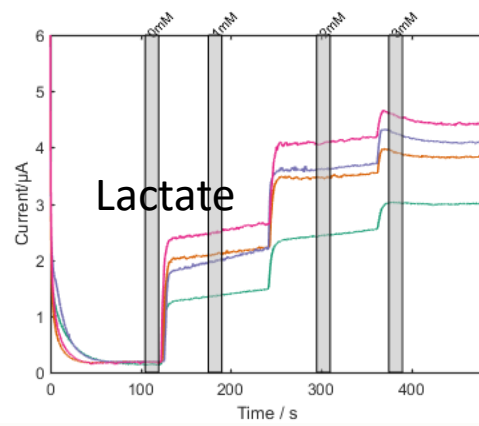
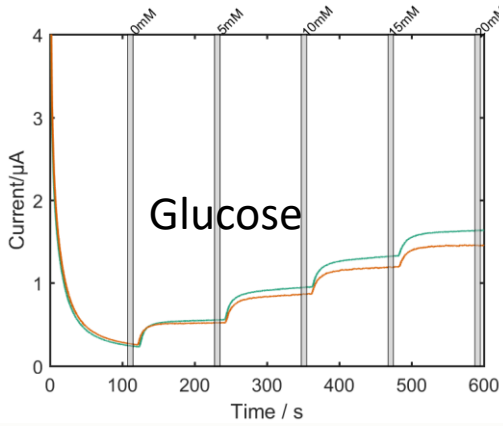
## Amperometric Glucose Sensor



## Potentiometric pH Sensor



# Sensors



# The Result



<https://www.zimmerpeacocktech.com/knowledge-base/electrochemical-biosensors-online-course/>

Zimmer & Peacock