

NOW
SHOWING

LIGHT DETECTION ACTION



Kelly Brown + Lynn Dennany

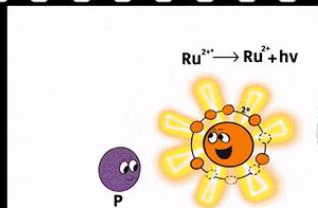
WestChem, Department of Pure + Applied
Chemistry, Technology + Innovation Centre,
University of Strathclyde, 99 George Street,
Glasgow, G1 1RD

Feasibility of ECL for the monitoring
of therapeutic dosage toward
personalised medicine

Opening Credits



Understanding the
Mechanism
Co-reactant ECL
Analyte = light switch
Luminophore = light bulb



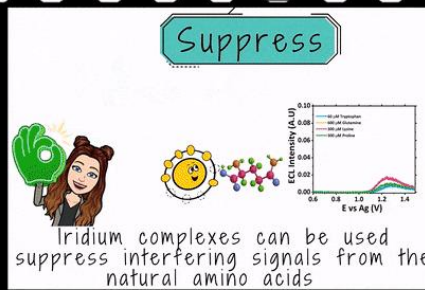
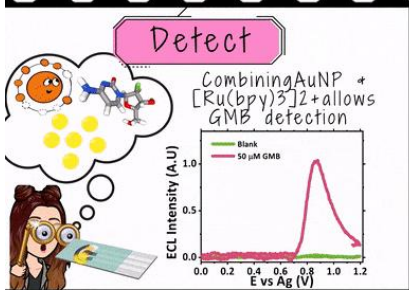
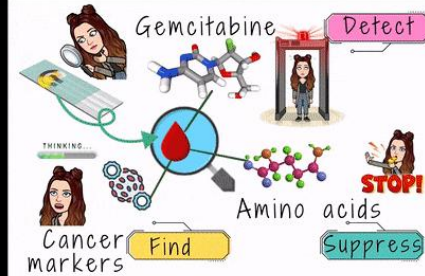
We used this
light for
forensic drug
detection ... so
surely we can
also use it for
biomedical
applications as
well



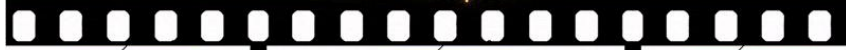
The Feature



Lets get rid of
routine imaging
strategies



The Sequel



Find
ECL
monitoring of
cancer
markers ...
can we do it
?! maybe

Develop
Development of a multi-electrode
array.
Each working electrode modified
with a different luminophore, of
a unique selectivity

Use
Wearable
device
which allows
continuous
patient
monitoring
and remote
feedback to
physicians

