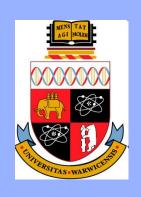
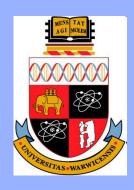
Innovative Precious Metal Cancer Therapy



Peter J. Sadler







Science Capital
"Innovative Healthcare:
from Mechanisms to Medicine"
Wed 25 September 2013

Innovative Precious Metal Cancer Therapy

Platinum photo-chemotherapy:

→ Oesophageal cancer

Organo-Osmium chemotherapy:

Colorectal cancer

Organo-Iridium chemotherapy:

Promising

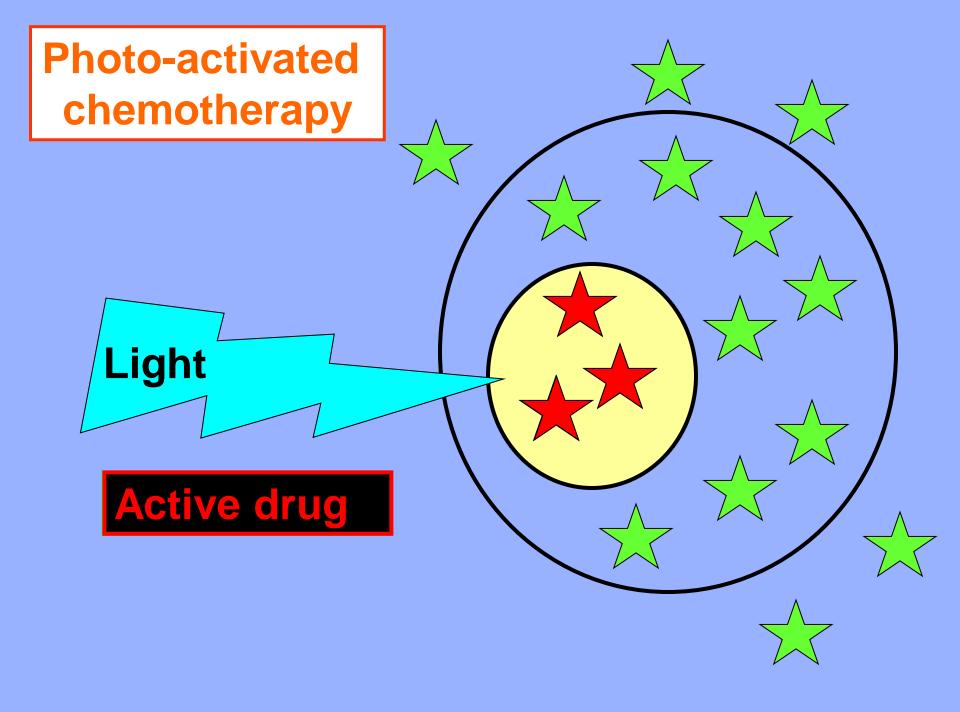
Warwick patents

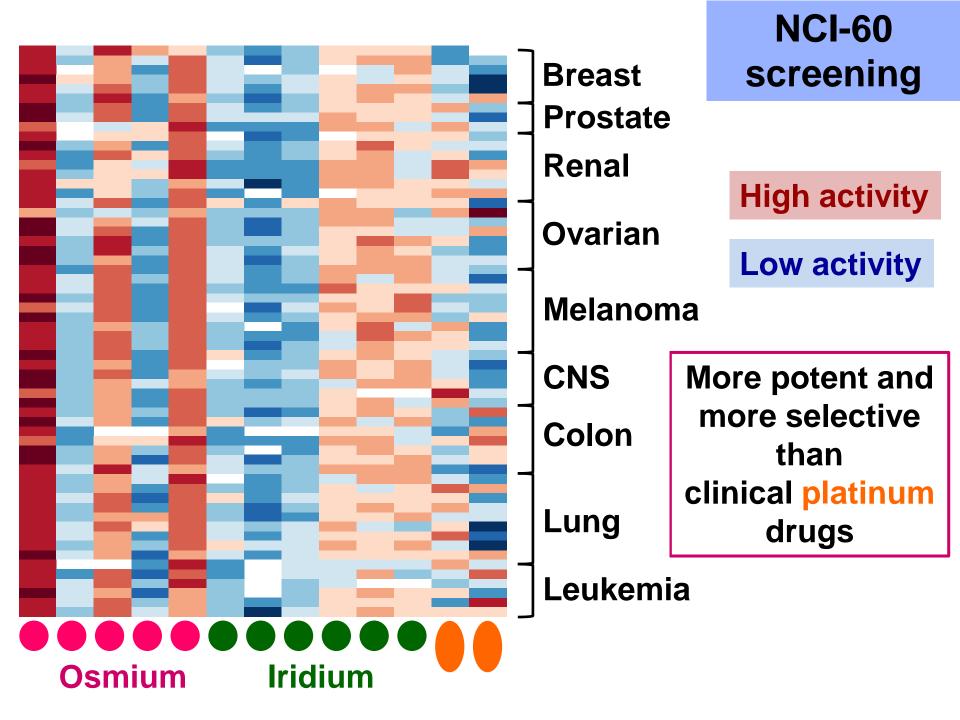
Platinum: photoactivated chemotherapy PCT/GB2002/003939, 24 Aug 2001 GB1215498.5, 31 Aug 2012

Organometallic anticancer compounds

Osmium: GB1006762.7, 22 April 2010

Iridium: GB1008584.3, 22 May 2010





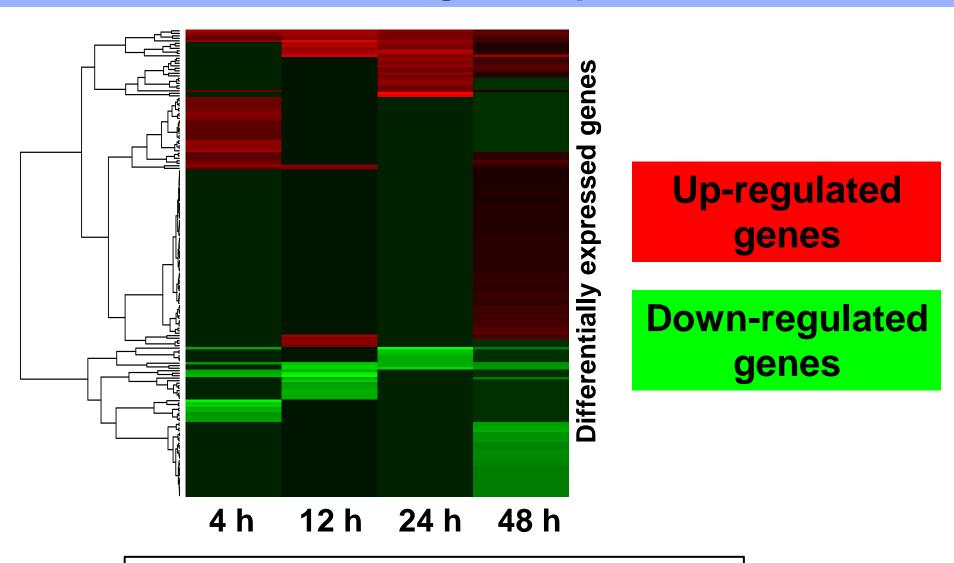
Cellular Mechanisms of Action

Genomics

Transcriptomics

Proteomics

Transcriptomics Differential gene expression



Dynamic response over 48 h exposure

Prospective: Novel mechanisms of action

Platinum photo-chemotherapy:

- Oesophageal, bladder cancer
- Targeted therapy

Organo-Osmium chemotherapy:

- → Ovarian cancer
- → Pt Resistant ovarian cancers
- p53-mutated colorectal cancers

Organo-Iridium chemotherapy:

→ Triple-negative breast cancer?



