



Physiomics brings together a unique combination of capabilities...



Knowledge of cancer biology from industry and academia



Understanding of pre-clinical and clinical data sourcing and curation



Expertise in quantitative pharmacology



Experience in modelling and Al techniques such as machine learning



...to answer key development questions for our clients

Recommend efficacy/ toxicity trade-offs



Predict biologically effective dose in humans to support clinical translation



Recommend combination partner agent for proprietary in-house asset





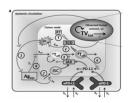
Physiomics is a consultancy focused on quantitative modelling in oncology

PK/PD analysis



- Data analysis and interpretation
- PK/PD modelling (NCA, PopPK)
- In-vitro, in-vivo, clinical

Quantitative Systems Pharmacology



- Pathway models
- PBPK
- Literature, bespoke or hybrid

Virtual Tumour™



- In-silico cell-cycle model of tumour growth
- Predicts tumour regression
- Mono or combination therapy

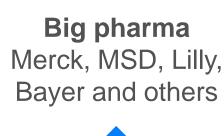
Personalised medicine



- Grant funded
- Predict response to treatment for individuals



We've completed over 70 commercial and grant funded projects



Grants
Innovate UK, EU-FP6
(TEMPO), Carbon Trust



Biotech/ Midcap

Bicycle Therapeutics, CRUK Cellcentric, Convert Pharma, and others

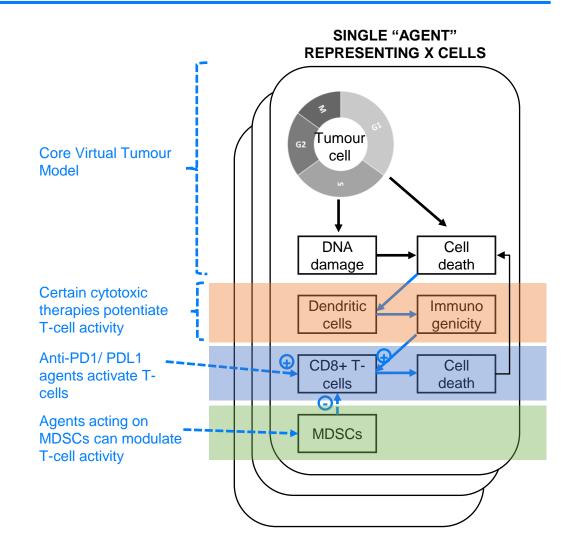
Academic

Medicines Discovery Catapult, NIH, Oxford University, Oxford AHSN, Institute of Cancer Research, CRT

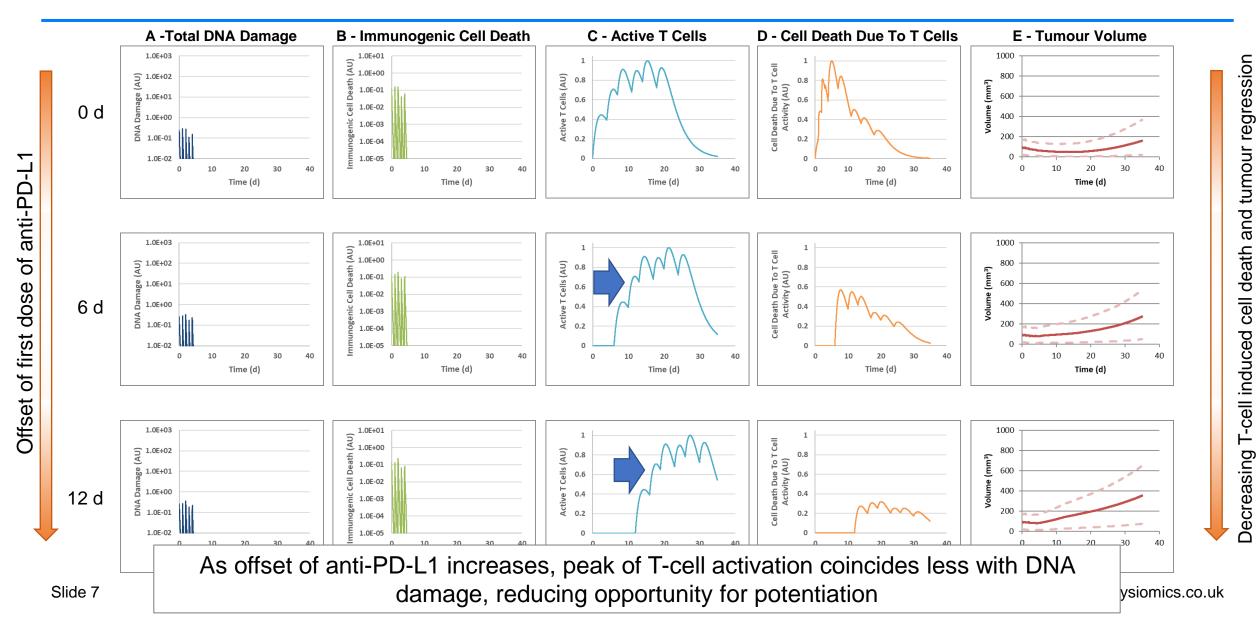


Our Virtual Tumour™ platform has been extended to enable modelling of immuno-oncology combination treatment

- Various abstracted immune pathways are incorporated:
 - Stimulatory effect of anti-PD-(L)1 on T-cell activation levels, leading to tumour cell death
 - Potentiation by some cytotoxic agents via induction of immunogenic cell death and recruitment/maturation of dendritic cells
 - Inhibitory effect of MDSCs on T-cell activity (allowing consideration of drugs that act on this cell type)
- This enables flexible simulation of combinations of anti-PD(L)1, DDR agents, RT, immunogenic cytotoxics, agents acting on MDSCs and more



This enables us to predict and explain timing effects in terms of species modelled – for example, RT + anti-PD-L1





Why work with Physiomics?

- We help solve real development challenges
- We supplement existing client resources to increase capacity and shorten timelines
- Exclusively focused on cancer
- Deep expertise
 - >70 big pharma, biotech and grant funded projects
 - Significant academic as well as industry experience
- Can bring proprietary (Virtual Tumour™) and other industry standard models to bear on R&D challenges
 - Experience with large number of targets, cell lines, PDX
- We are a small team that offers a dedicated, flexible service



