Discovery-to-Translation-loop

WARWICK

TRL 2	TRL 3	TRL 4	TRL 5	TRL 6
Unmet need for intervention identified	Target product profile for intervention completed	Proof of concept and safety demonstrated in limited *in vitro* models	Proof of concept and safety demonstrated in industry-recognised *in vivo* model of disease	Regulatory approvals in place to enable clinical studies to commence

Basic Research (D1)

Curiosity-driven, No projected practical aspiration

Disease-orientated research (D2)

Starting point for diagnosis, treatment and prevention: i.e. searching for disease related genes and biomarkers or target molecules; building animal models of human disease

Development of intervention (D3)

Development of a diagnostic (disease stratification), treatment or preventative measure using animal, human tissue and cell-based models; develop medical device/technology.

Confirming disease association (D4)

Testing intervention and proof-of-concept work; Preclinical studies, including safety in animal models

Regulatory preclinical studies (T1)

Testing intervention for safety and efficacy using regulator-recognized methods (e.g. GLP tox) sufficient to support regulatory approval for trials

Early clinical trials (T2)