nature portfolio

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Reporting Summary

Data availability statement in the manuscript

Nature Portfolio wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Portfolio policies, see our <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

Statistics				
For all statistical ar	For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.			
n/a Confirmed	a Confirmed			
☐ ☐ The exact	sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement			
A stateme	ent on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly			
The statis Only comm	tical test(s) used AND whether they are one- or two-sided non tests should be described solely by name; describe more complex techniques in the Methods section.			
A descript	tion of all covariates tested			
A descript	tion of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons			
A full desc	cription of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) ation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)			
X	ypothesis testing, the test statistic (e.g. F , t , r) with confidence intervals, effect sizes, degrees of freedom and P value noted less as exact values whenever suitable.			
For Bayes	ian analysis, information on the choice of priors and Markov chain Monte Carlo settings			
For hierar	chical and complex designs, identification of the appropriate level for tests and full reporting of outcomes			
Estimates	of effect sizes (e.g. Cohen's d , Pearson's r), indicating how they were calculated			
·	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.			
Software an	d code			
Policy information	about <u>availability of computer code</u>			
Data collection	Clinical trial data was entered on the clinical trial database.			
Data analysis	R was used to produce waterfall plots. The graphs generated for pharmacodynamic data was GraphPad Prizm.			
,	g custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and encourage code deposition in a community repository (e.g. GitHub). See the Nature Portfolio guidelines for submitting code & software for further information.			
Data				
Policy information	about <u>availability of data</u>			
All manuscripts must include a <u>data availability statement</u> . This statement should provide the following information, where applicable:				
- Accession codes, unique identifiers, or web links for publicly available datasets - A description of any restrictions on data availability				
- For clinical data	sets or third party data, please ensure that the statement adheres to our <u>policy</u>			

Research inv	volving hu	man participants, their data, or biological material	
		with <u>human participants or human data</u> . See also policy information about <u>sex, gender (identity/presentation),</u> thnicity and racism.	
Reporting on sex	and gender	This is a trial in cancer patients. Sex is mentioned in the table on demographics in supplementary table 1	
Reporting on rac other socially rela groupings		Ethnicity has been reported in table on demographics in Suppl table 1	
Population chara	acteristics	Data related to age was collected and presented in the table of demographics in the paper.	
Recruitment		Inclusion criteria is was clarified in the manuscript and the protocol has also been uploaded.	
Ethics oversight		This protocol was passed through the UK National Ethics Comittee	
Note that full informa	ation on the appr	oval of the study protocol must also be provided in the manuscript.	
Field-spe	ecific re	porting	
Please select the o	ne below that i	s the best fit for your research. If you are not sure, read the appropriate sections before making your selection.	
Life sciences	В	sehavioural & social sciences	
For a reference copy of	the document with	all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>	
Life scier	nces stu	udy design	
All studies must dis	sclose on these	points even when the disclosure is negative.	
Sample size		the dose escalation is predetermined in a 3+3 dose escalation design. The size of the dose expansions were empiric, however robability of of detecting a clinically meaningful difference is detailed in the manuscript.	
Data exclusions		o received at least one dose was eligible for evaluation of toxicity which is the primary end point of the study. Patients who did not receive a dose of drug were not included for assessment for the primary endpoint.	
Replication	Not applicable		
Randomization	Not applicable		
Blinding	Non blinded stu	ıdy	
Reportin	g for sp	pecific materials, systems and methods	
		about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.	
Materials & ex	perimental s	ystems Methods	
n/a Involved in th	ne study	n/a Involved in the study	
Antibodies	5	ChIP-seq	
Eukaryotic		Flow cytometry	
Palaeontology and archaeology			
Animals ar	nd other organism		
	tu		

Antibodies

Antibodies used

Dual use research of concern
Plants

Antibodies used, source and concentrations have been detailed in the materials and methods

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Policy	inform	ation	about	clinical	studies

All r	nanuscripts should comply w	with the ICM	IJE guidelines for	publication of clinica	I research and a comp	eted CONSORT	checklist must be i	ncluded with all submi	issions.

Clinical trial registration	NCT03875820/EudraCT number 2017-001035-39
Study protocol	Has been attached

The dates when the trial was open has been detailed in the manuscript Data collection

Outcomes Primary, secondary and tertiary objectives and endpoints have been detailed in the manuscript and in the uploaded protocol

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Seed stocks	N/A
Novel plant genotypes	N/A
Authentication	N/A

Magnetic resonance imaging

Experimental design

Design specifications

Routine standard of care imaging for RECIST measurement of tumour in cancer patients used in some cases. Design type

> CT and MRI scans were allowed for use in the protocol to measure disease as per RECIST, which are criteria used in clinical trials for cancer.

Behavioral performance measures

N/A

Acquisition

Imaging type(s) As per standard of care in the National Health Service, not a research measure

As per standard of care in the National Health Service, not a research measure Field strength Sequence & imaging parameters

As per standard of care in the National Health Service, not a research measure

Area of acquisition Abdomen/pelvis and brain where appropriate as a substitute for CT scans.

Not used Diffusion MRI Used

Preprocessing

Preprocessing software	As per standard of care in the National Health Service, not a research measure
Normalization	As per standard of care in the National Health Service, not a research measure
Normalization template	As per standard of care in the National Health Service, not a research measure
Noise and artifact removal	As per standard of care in the National Health Service, not a research measure
Volume censoring	As per standard of care in the National Health Service, not a research measure

Statistical modeling & infer	rence
Model type and settings	As per standard of care in the National Health Service, not a research measure
Effect(s) tested	As per standard of care in the National Health Service, not a research measure
Specify type of analysis:	Whole brain ROI-based Both
Ana	tomical location(s) Depends on where the tumour was to start with
Statistic type for inference	As per standard of care in the National Health Service, not a research measure
(See Eklund et al. 2016)	
Correction	As per standard of care in the National Health Service, not a research measure
Models & analysis	
n/a Involved in the study	

/a	Involved in the study
X	Functional and/or effective connectivity
X	Graph analysis
X	Multivariate modeling or predictive analysis