## nature portfolio

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## **Reporting Summary**

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 Editorial Policies and the Editorial Policy Checklist.

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For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Me	thods section.				
n/a Confirmed					
The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measure	ement				
A statement on whether measurements were taken from distinct samples or whether the same sample was mea	sured repeatedly				
The statistical test(s) used AND whether they are one- or two-sided Only common tests should be described solely by name; describe more complex techniques in the Methods section.					
A description of all covariates tested	scription of all covariates tested				
A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons					
A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)					
For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i> ) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted Give <i>P</i> values as exact values whenever suitable.					
For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings					
For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes					
$\square$ 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 and code					
Policy information about <u>availability of computer code</u>					
Data collection R software					
Data analysis R software					
For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be mare reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Portfolio guidelines for submitting code & software that are central to the research but not yet described in published literature, software must be mare					

## Data

Policy information about availability of data

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 datasets or third party data, please ensure that the statement adheres to our policy

Trial data can be made available by contacting the individual trial investigators of the trials included in this project, pending individual sponsors approval. The corresponding author of the paper can redirect requests. A specific data transfer agreement between the individual sponsors of the trials and the researcher may be requested. This data transfer agreement details both parts responsibilities to ensure the required level of data integrity and legal and ethical obligations.

Field-spe	ecific r	reporting			
Please select the or	ne below tha	at is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.			
Life sciences	ife sciences Behavioural & social sciences Ecological, evolutionary & environmental sciences				
For a reference copy of t	the document w	rith all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>			
Life scier	nces s	tudy design			
All studies must dis	sclose on the	se points even when the disclosure is negative.			
Sample size	Outlined in p	primary paper of this project : Loi et al J Clin Oncol. 2019 Mar 1;37(7):559-569.			
Data exclusions	see Loi et al	t al J Clin Oncol. 2019 Mar 1;37(7):559-569.			
Replication		e of the included studies in this pooled analysis, different pathologists have read TILs. The reproducibility of TILs reading has been ed in other publications of the International TILs working group.			
Randomization	Not relevant				
Blinding	TILs reading	was performed by pathologists without access to the clinical database.			
S					
We require informatic system or method list  Materials & expression of the system or method list  Materials & expression of the system or method list  Materials & expression of the system of the sys	on from author ted is relevant perimental ne study cell lines logy and archard other organs search particip	n/a Involved in the study  ChIP-seq  Flow cytometry  MRI-based neuroimaging  annts			
Human rese	arch pai	ticipants			
Policy information	about <u>studie</u>	es involving human research participants			
Population chara	cteristics	Pooled analyais of multiple individual studies. See Loi et al J Clin Oncol. 2019 Mar 1;37(7):559-569 for description.			
Recruitment		See Loi et al J Clin Oncol. 2019 Mar 1;37(7):559-569 for description of inclusion periods.			
Ethics oversight		Following french regulations, see Loi et al J Clin Oncol. 2019 Mar 1;37(7):559-569.			
Note that full informa	ation on the a	pproval of the study protocol must also be provided in the manuscript.			
Clinical data					
Policy information All manuscripts should		al studies the ICMJE guidelines for publication of clinical research and a completed CONSORT checklist must be included with all submissions.			
Clinical trial regis	tration Thi	This project is not a clinical trial in itself.			
Study protocol	Car	be requested to the corresponding author.			
Data collection	See	Loi et al J Clin Oncol. 2019 Mar 1;37(7):559-569 for description.			

See Loi et al J Clin Oncol. 2019 Mar 1;37(7):559-569 for description.

Outcomes