

Materials Design Analysis Reporting (MDAR) **Checklist for Authors**

The MDAR framework establishes a minimum set of requirements in transparent reporting applicable to studies in the life sciences (see Statement of Task: [doi:10.31222/osf.io/9sm4x](https://doi.org/10.31222/osf.io/9sm4x)). The MDAR checklist is a tool for authors, editors, and others seeking to adopt the MDAR framework for transparent reporting in manuscripts and other outputs. Please refer to the MDAR Elaboration Document for additional context for the MDAR framework.

For all that apply, please note where in the manuscript the required information is provided.

Materials:

Newly created materials	indicate where provided: page no/section/legend)	n/a
The manuscript includes a dedicated "materials availability statement" providing transparent disclosure about availability of newly created materials including details on how materials can be accessed and describing any restrictions on access.	The material availability statement is covered in the Materials and Data Availability section in the Materials and Methods section.	
Antibodies	indicate where provided: page no/section/legend)	n/a
For commercial reagents, provide supplier name, catalogue number and RRID , if available.	Commercially available antibodies are tabulated in Table S4 and S5 (page 19-22 of supplementary data).	
DNA and RNA sequences	indicate where provided: page no/section/legend)	n/a
Short novel DNA or RNA including primers, probes: Sequences should be included or deposited in a public repository.	STING specific oligos (for gRNA or sequencing) and primers for qPCR are tabulated in Table S6 (page 23 of supplementary data)	
Cell materials	indicate where provided: page no/section/legend)	n/a
Cell lines: Provide species information, strain. Provide accession number in repository OR supplier name, catalogue number, clone number, OR RRID.	List of cell-lines used for <i>in vivo</i> and <i>in vitro</i> experiments are tabulated in Table S2 (page 16 of Supplementary data)	
Primary cultures: Provide species, strain, sex of origin, genetic modification status.	Myeloid cells and T cells were sorted from female C57BL/6J mice or <i>Ifnar1^{-/-}</i> mice and cultured ex-vivo for 1-3 days. See Material and Methods section.	
Experimental animals	indicate where provided: page no/section/legend)	n/a
Laboratory animals or Model organisms: Provide species, strain, sex, age, genetic modification status. Provide accession number in repository OR supplier name, catalogue number, clone number, OR RRID.	A list of animals used are tabulated in Table S1 (page 15 of Supplementary Data).	
Animal observed in or captured from the field: Provide species, sex, and age where possible.		x
Plants and microbes	indicate where provided: page no/section/legend)	n/a
Plants: provide species and strain, ecotype and cultivar where relevant, unique accession number if available, and source (including location for collected wild specimens).		x
Microbes: provide species and strain, unique accession number if available, and source.		x
Human research participants	indicate where provided: page no/section/legend) or state if these demographics were not collected	n/a
If collected and within the bounds of privacy constraints report on age, sex and gender or ethnicity for all study participants.		x

Design:

Study protocol	indicate where provided: page no/section/legend)	n/a
If study protocol has been pre-registered, provide DOI. For clinical trials, provide the trial registration number OR cite DOI.		x

Laboratory protocol	indicate where provided: page no/section/legend)	n/a
Provide DOI OR other citation details if detailed step-by-step protocols are available.		x

Experimental study design (statistics details)		
For in vivo studies: State whether and how the following have been done	indicate where provided: page no/section/legend. If it could have been done, but was not, write not done	n/a
Sample size determination	The number of mice was estimated using power analysis (G*Power 3) and represents the minimum number to ensure robust statistical data, without compromising reproducibility and accuracy. Under “study design” of the Material and Methods section.	
Randomisation	Animals were randomized. Animals were housed with other treatment groups. See “study design” of Materials and Methods section.	
Blinding	Researchers were not blinded during the experiments	
Inclusion/exclusion criteria	Mice were only excluded if ulceration of the tumor occurred prior to treatment. No data was excluded from the analyses. Under “study design” of the Material and Methods section.	

Sample definition and in-laboratory replication	indicate where provided: page no/section/legend	n/a
State number of times the experiment was replicated in laboratory.	The number of times the experiments were replicated is indicated in the figure legends pertaining to the experiment.	
Define whether data describe technical or biological replicates.	Replicates are biological and the numbers stated in the legends of all figures.	

Ethics	indicate where provided: page no/section/legend	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		X
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Mouse work was overseen by the Institutional Animal Care and Use Committee at Stanford (IACUC Protocol Approved: 28926). “Mice” in the Material and Methods section.	
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		x

Dual Use Research of Concern (DURC)	indicate where provided: page no/section/legend	n/a
If study is subject to dual use research of concern regulations, state the authority granting approval and reference number for the regulatory approval.		x

Analysis:

Attrition	indicate where provided: page no/section/legend	n/a
Describe whether exclusion criteria were preestablished. Report if sample or data points were omitted from analysis. If yes report if this was due to attrition or intentional exclusion and provide justification.	No exclusion of data was done. "Study design" of the Material and Methods section.	x

Statistics	indicate where provided: page no/section/legend	n/a
Describe statistical tests used and justify choice of tests.	Information provided in the "Statistics" of the Material and Methods section.	

Data availability	indicate where provided: page no/section/legend	n/a
For newly created and reused datasets, the manuscript includes a data availability statement that provides details for access or notes restrictions on access.	Available data can be found in the "Materials and Data Availability" of the Materials and Methods section.	
If newly created datasets are publicly available, provide accession number in repository OR DOI OR URL and licensing details where available.		x
If reused data is publicly available provide accession number in repository OR DOI OR URL, OR citation.		x

Code availability	indicate where provided: page no/section/legend	n/a
For all newly generated custom computer code/software/mathematical algorithm or re-used code essential for replicating the main findings of the study, the manuscript includes a data availability statement that provides details for access or notes restrictions.	Software and algorithms are provided in Supplementary Table S7 (page 25 of Supplementary Data).	
If newly generated code is publicly available, provide accession number in repository, OR DOI OR URL and licensing details where available. State any restrictions on code availability or accessibility.		x
If reused code is publicly available provide accession number in repository OR DOI OR URL, OR citation.	Software and algorithms are provided in Supplementary Table S7 (page 25 of Supplementary Data).	

Reporting

MDAR framework recommends adoption of discipline-specific guidelines, established and endorsed through community initiatives. Journals have their own policy about requiring specific guidelines and recommendations to complement MDAR.

Adherence to community standards	indicate where provided: page no/section/legend	n/a
State if relevant guidelines (e.g., ICMJE, MIBBI, ARRIVE) have been followed, and whether a checklist (e.g., CONSORT, PRISMA, ARRIVE) is provided with the manuscript.		x