<u>Materials Design Analysis Reporting (MDAR)</u> 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.). 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	Anti-human and anti-mouse DLL4 blocking antibodies	
availability statement" providing transparent	(REGN421 and REGN577, respectively) were	
disclosure about availability of newly created	manufactured and provided by Regeneron and can be	
materials including details on how materials can be	available to investigators by MTA. See Materials and	
accessed and describing any restrictions on access.	Methods/study design and Data and materials	
	availability.	
Antibodies	indicate where provided: page no/section/legend)	n/a
For commercial reagents, provide supplier name,	indicate where provided, page not section/regend/	II/a
catalogue number and RRID, if available.	Information about commercial reagents is provided in	
	Data File S8.	
		1
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		n/a
public repository.		
Cell materials	indicate where provided: page no/section/legend	n/a
Cell lines: Provide species information, strain.		
Provide accession number in repository OR supplier		n/a
name, catalog number, clone number, OR RRID.		
Primary cultures: Provide species, strain, sex of		
origin, genetic modification status.		n/a
Experimental animals	indicate where provided: page no/section/legend)	n/a
Laboratory animals or Model organisms: Provide	Information about all laboratory animals is provided in	
species, strain, sex, age, genetic modification status.	Data File S8; Materials and Methods/study design;	
Provide accession number in repository OR supplier	Supplementary Materials and Methods/non-human	
name, catalog number, clone number, OR RRID.	primate study design and transplant strategy;	
	Supplementary Materials and Methods/mice; in Data	
	File S1, and throughout figure legends.	
Animal observed in or captured from the field:		
Provide species, sex, and age where possible.		n/a
	<u> </u>	
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		n/a
wild specimens).		
Microbes: provide species and strain, unique		+ .
accession number if available, and source.		n/a
Human research participants	indicate where provided: page no/section/legend) or	n/a
If collected and within the bounds of privacy	state if these demographics were not collected	
constraints report on age, sex and gender or		n/a
ethnicity for all study participants.		1., 4
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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.		n/a

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.		n/a

For in vivo studies: State whether and how the	indicate where provided: page no/section/legend. If it	n/a
following have been done	could have been done, but was not, write not done	II/a
Sample size determination	This information is provided in Materials and Methods/statistical analysis.	
Randomisation	NHP experiments: not done. Mouse experiments: not done.	
Blinding	NHP experiments: not done. Mouse experiments: not done.	
Inclusion/exclusion criteria	NHP experiments: Juvenile or adult immunologically- naïve, healthy Rhesus macaques were selected for these experiments based on their MHC typing data. Mouse experiments: none.	

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.	All experiments were replicated at least 2 times.	
Define whether data describe technical or biological replicates.	Biological replicates.	

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.		n/a
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	NHP experiments: 2019N000238 Mouse experiments: UPenn IACUC #806409	
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		n/a

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		n/a
and reference number for the regulatory approval.		

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.	NHP: exclusion criteria were pre-established. No data points omitted.	

Statistics	indicate where provided: page no/section/legend	n/a
Describe statistical tests used and justify choice of	Detailed description of the statistical analysis is	
tests.	provided in Materials and Methods/statistical analysis.	
	Choice of statistical analysis method for each data set is	
	provided in the corresponding figure legend.	

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.	A statement on data availability is provided in Data and materials availability.	
If newly created datasets are publicly available, provide accession number in repository OR DOI OR URL and licensing details where available.	See Data and materials availability: GSE accession number 228838.	
If reused data is publicly available provide accession number in repository OR DOI OR URL, OR citation.		n/a

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.		n/a
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.		n/a
If reused code is publicly available provide accession number in repository OR DOI OR URL, OR citation.		n/a

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.		n/a