<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:

Nowly created materials	indicate where provided: page no/section/legand	n/2
Newly created materials The manuscript includes a dedicated "materials	indicate where provided: page no/section/legend)	n/a
·	Dravidad in page 41 Asknowledgements under Data	
availability statement" providing transparent	Provided in page 41, Acknowledgements under Data	
disclosure about availability of newly created	and materials availability, Guinea pig anti-trout CD4	
materials including details on how materials can be	pAb.	
accessed and describing any restrictions on access.		
Antibodies	indicate where provided: page no/section/legend)	n/a
For commercial reagents, provide supplier name,	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	,
catalogue number and RRID, if available.	Provided in pages 26-27, MATERIALS AND METHODS;	
attaiogue number and mab, il available.	and pages 5-8, Supplementary MATERIALS AND METHODS.	
	METHODS.	
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	Primer sequences used for PCR can be found in	
public repository.	Supplementary MATERIALS AND METHODS/Table S1.	
Established Section 1.	Probe sequences used in <i>in situ</i> hybridization can be	
	found in Supplementary MATERIALS AND METHODS	
	/Table S2.	
	/ Table 32.	
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, catalog number, clone number, OR RRID.		n/a
, , , , , , , , , , , , , , , , , , ,		
Primary cultures: Provide species, strain, sex of		- /-
origin, genetic modification status.		n/a
	T	1 ,
Experimental animals	indicate where provided: page no/section/legend)	n/a
Laboratory animals or Model organisms: Provide		
species, strain, sex, age, genetic modification status.	Provided in page 3, Supplementary MATERIALS AND	
Provide accession number in repository OR supplier	METHODS /Fish maintenance.	
name, catalog number, clone number, OR RRID.		
Animal observed in or captured from the field:		
Provide species, sex, and age where possible.		n/a
· · · · · · · · · · · · · · · · · · ·		
Digita and misushes	indicate where are ideal are a second and a second are a second and are a second and are a	
Plants and microbes Plants: provide species and strain, ecotype and	indicate where provided: page no/section/legend)	n/a
cultivar where relevant unique accession number if		n/a
cultivar where relevant, unique accession number if		II/ a
available, and source (including location for collected		II/a
available, and source (including location for collected wild specimens).		11/ a
available, and source (including location for collected wild specimens). Microbes: provide species and strain, unique		n/a
available, and source (including location for collected wild specimens).		
available, and source (including location for collected wild specimens). Microbes: provide species and strain, unique accession number if available, and source.	indicate where provided: page no/section/legend) or	n/a
available, and source (including location for collected wild specimens). Microbes: provide species and strain, unique	indicate where provided: page no/section/legend) or state if these demographics were not collected	
available, and source (including location for collected wild specimens). Microbes: provide species and strain, unique accession number if available, and source. Human research participants If collected and within the bounds of privacy		n/a
available, and source (including location for collected wild specimens). Microbes: provide species and strain, unique accession number if available, and source. Human research participants		n/a

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
		ĺ

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	Provided in page 25, MATERIALS AND METHODS/Study design.	
Randomisation	Fish were randomly selected to receive immunizations or Ich infections.	
Blinding	Provided in page 25, MATERIALS AND METHODS/Study design.	
Inclusion/exclusion criteria	Provided in page 25, MATERIALS AND METHODS/Study design, and page 30, MATERIALS AND METHODS/Statistical analysis.	

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.	Provided in each corresponding figure legends and supplementary figure legends.	
Define whether data describe technical or biological replicates.	Provided in each corresponding figure legends and supplementary figure legends.	

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.	Provided in page 3, Supplementary MATERIALS AND METHODS /Fish maintenance.	
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.		

Statistics	indicate where provided: page no/section/legend	n/a
Describe statistical tests used and justify choice of tests.	Provided in page 30, Materials and Methods/Statistical analysis.	

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.	Provided in page 41, Acknowledgements under 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.	SRA accession number PRJNA854339 is provided in page 41, Acknowledgements under Data and materials availability.	
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		n/a
the manuscript.		l