### <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.

# **Materials**

Antibodies	Yes (indicate where provided: section/paragraph)	n/a
For commercial reagents, provide supplier	Materials and methods/ChIP-seq data	
name, catalogue number and RRID, if available.	processing/Line 7-10	

Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain.		n
Provide accession number in repository <b>OR</b>		
supplier name, catalog number, clone number,		
OR RRID		
Primary cultures: Provide species, strain, sex of		n
origin, genetic modification status.		

Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age,		n
genetic modification status. Provide accession		
number in repository <b>OR</b> supplier name, catalog		
number, clone number, <b>OR</b> RRID		
Animal observed in or captured from the		n
field: Provide species, sex and age where		
possible		
Model organisms: Provide Accession number		n
in repository (where relevant) OR RRID		

Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
<b>Plants:</b> provide species and strain, unique accession number if available, and source (including location for collected wild specimens)		n
<b>Microbes:</b> provide species and strain, unique accession number if available, and source		n

Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or	Materials and methods/ Clinical specimen harvest	
equivalent committee(s), provide reference number	and handling /Line 8-9	
for approval.	Reference number: SH9H-2019-T159-2	
Provide statement confirming informed consent	Materials and methods/ Clinical specimen harvest and	
obtained from study participants.	handling /Line 9-10	
Report on age and sex for all study participants.	Materials and methods/ Clinical specimen harvest and handling /Line 1	

## **Design**

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration		n
number <b>OR</b> cite DOI in manuscript.		

Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-		n
by-step protocols are available.		

Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been		
done, or if they were not carried out.		
Sample size determination	Materials and methods/ Clinical specimen harvest and handling /Line 1 Results/ Transcriptome profiling in salivary gland cells of pSS/Line 1	
Randomisation		n
Blinding		n
Inclusion/exclusion criteria		

Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	Materials and methods/ Clinical specimen harvest and handling Results/ Transcriptome profiling in salivary gland cells of pSS/	
Define whether data describe technical or biological replicates	Materials and methods/ Clinical specimen harvest and handling Results/ Transcriptome profiling in salivary gland cells of pSS/	

Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	Materials and methods/ Clinical specimen harvest	
authority granting ethics approval (IRB or equivalent	and handling /Line 8-9	
committee(s), provide reference number for approval.	Reference number: SH9H-2019-T159-2	
Studies involving experimental animals: State details		n
of authority granting ethics approval (IRB or		
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if	Materials and methods/ Clinical specimen harvest and	
relevant permits obtained, provide details of	handling	
authority approving study; if none were required,	Results/ Transcriptome profiling in salivary gland cells	
explain why.	of pSS/	

Į	Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a	
	If study is subject to dual use research of concern,		n	l
	state the authority granting approval and reference			
	number for the regulatory approval			

## **Analysis**

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is excluded, and whether the criteria for exclusion were determined and specified in advance.	Materials and methods/ Clinical specimen harvest and handling/Line 3-7 Materials and methods/ RNA-seq data processing/Line 6 Materials and methods/ ChIP-seq data processing/Line 15-17	

Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Materials and methods/ RNA-seq data processing/Line	
tests.	9-12	
	Materials and methods/ ChIP-seq data processing/Line	
	17-19	

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available, including protocols for access or restriction on	Materials and methods/ Data availability	
access.		
If data are publicly available, provide accession	Materials and methods/ Data availability	
number in repository or DOI or URL.		
If publicly available data are reused, provide		n
accession number in repository or DOI or URL, where		
possible.		

Code Availability	Yes (indicate where provided: section/paragraph)	n/a
For all newly generated code and software essential		n
for replicating the main findings of the study:		
State whether the code or software is available.	Materials and methods/ RNA-seq data processing	
	Materials and methods/ ChIP-seq data processing	
If code is publicly available, provide accession	Materials and methods/ RNA-seq data processing	
number in repository, or DOI or URL.	Materials and methods/ ChIP-seq data processing	

# Reporting

Adherence to community standards	Yes (indicate where provided: section/paragraph)	n/a
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.		
State if relevant guidelines (eg., ICMJE, MIBBI, ARRIVE) have been followed, and whether a checklist (eg., CONSORT, PRISMA, ARRIVE) is provided with the manuscript.	ICMJE guidelines were followed, as the journal follows ICMJE recommendations for publication.	

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