

# Manuscript Title

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## Abstract

Write a concise abstract appropriate for Scientific Reports.

**Keywords:** keyword 1; keyword 2; keyword 3

## 1 Introduction

Introduce the problem and scientific context in previous work.

## 2 Materials and Methods

Describe the experimental, observational, computational, or statistical methods.

## 3 Results

Present the principal findings.

## 4 Discussion

Interpret the results and compare them with the literature.

## 5 Conclusions

Summarize the principal conclusions.

## Data availability

State where the supporting data can be accessed.

## Acknowledgements

Add funding and acknowledgements.