# nature portfolio

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## **Reporting Summary**

Python 3.0

Nature Portfolio wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Portfolio policies, see our Editorial Policies and the Editorial Policy Checklist.

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For all statistical ar	nalyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.				
n/a Confirmed					
☐ ☐ The exact	sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement				
A stateme	ent on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly				
The statis Only comm	tical test(s) used AND whether they are one- or two-sided non tests should be described solely by name; describe more complex techniques in the Methods section.				
A descrip	A description of all covariates tested				
A descrip	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons				
A full des	A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)				
For null h	For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i> ) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted Give <i>P</i> values as exact values whenever suitable.				
For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings					
For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes					
Estimates	of effect sizes (e.g. Cohen's $d$ , Pearson's $r$ ), indicating how they were calculated				
,	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.				
Software and code					
Policy information	about availability of computer code				
Data collection	The images were captured using an inverted fluorescence microscope (ECLIPSE Ti2-E, Nikon) with a 200× magnification.  NIS-Elements software was used to control the Nikon microscope and capture images.				
Data analysis	Fiji (ImageJ) Java 1.8.0_322(64-bit) Visual studio code (Version 1.86.1)				

For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Portfolio guidelines for submitting code & software for further information.

#### Data

Policy information about availability of data

All manuscripts must include a <u>data availability statement</u>. This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets
- A description of any restrictions on data availability
- For clinical datasets or third party data, please ensure that the statement adheres to our policy

The data of this study are available within the paper and its Supplementary Information. The source files for all the graphs presented in the paper, Supplementary Data 1.2

### Research involving human participants, their data, or biological material

Policy information about studies with <u>human participants or human data</u>. See also policy information about <u>sex, gender (identity/presentation), and sexual orientation</u> and <u>race, ethnicity and racism</u>.

Reporting on sex and gender

2/3 were females and 1/3 were males.

Reporting on race, ethnicity, or other socially relevant groupings

We used self reported information. 2/3 Asian 1/3 South African

Population characteristics Age: 25-45

Recruitment Individuals were recruited independently of this study, and was based on voluntary participation after an invitation.

Ethics oversight

All participations provided informed written consent. This study was approved by the University of British Columbia's Clinical Research Ethics Board

Note that full information on the approval of the study protocol must also be provided in the manuscript.

## Field-specific reporting

Life sciences

Please select the one below that is the be	st fit for your research.	If you are not sure,	read the appropriate sec	ctions before making y	our selection.

Ecological, evolutionary & environmental sciences

For a reference copy of the document with all sections, see <a href="mailto:nature.com/documents/nr-reporting-summary-flat.pdf">nature.com/documents/nr-reporting-summary-flat.pdf</a>

Behavioural & social sciences

## Life sciences study design

All studies must disclose on these points even when the disclosure is negative.

Experiments were performed with three independent experiments. Studies with primary neutrophils were performed with cells derived from three independent donations. Each experimental condition was repeated in at least three independent nanowell-in-microwells.

To determine the %NETs in each nanowell-in-microwell, we averaged %NETs from three randomly selected non-overlapping 5×5 nanowells.

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Randomization

No randomization is performed.

Blinding No blinding is done.

## Reporting for specific materials, systems and methods

We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, system or method listed is relevant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.

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Materials & experime	ntal sys	
n/a   Involved in the study		n/a   Involved in the study
Antibodies		ChIP-seq
Eukaryotic cell lines		Flow cytometry
Palaeontology and a	archaeolog	gy MRI-based neuroimaging
Animals and other o	rganisms	
Clinical data		
Dual use research of	f concern	
Plants		
Eukaryotic cell lin	es	
Policy information about <u>ce</u>	ell lines a	nd Sex and Gender in Research
Cell line source(s)	s) HL-60 cell line - Supplied by ATCC, Product CCL-240	
Authentication Cell lines were not au		Cell lines were not authenticated since they were procured from ATCC prior to commencing these studies
Mycoplasma contamination Not tested for Mycop		Not tested for Mycoplasma contamination.
Commonly misidentified lines (See ICLAC register)		Jone
Plants		
Seed stocks		n the source of all seed stocks or other plant material used. If applicable, state the seed stock centre and catalogue number. If eximens were collected from the field, describe the collection location, date and sampling procedures.
Novel plant genotypes		
Authentication	was applied. Describe any authentication procedures for each seed stock used or novel genotype generated. Describe any experiments used to assess the effect of a mutation and, where applicable, how potential secondary effects (e.g. second site T-DNA insertions, mosiacism,	

off-target gene editing) were examined.