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Initial submission Revised version

Final submission

Life Sciences Reporting Summary

Nature Research wishes to improve the reproducibility of the work that we publish. This form is intended for publication with all accepted life science papers and provides structure for consistency and transparency in reporting. Every life science submission will use this form; some list items might not apply to an individual manuscript, but all fields must be completed for clarity.

For further information on the points included in this form, see Reporting Life Sciences Research. For further information on Nature Research policies, including our data availability policy, see Authors & Referees and the Editorial Policy Checklist.

Experimental design

1.	Sample size			
	Describe how sample size was determined.	We used publicly available data from the 1000 Genomes Project and GTEx Project where sample sizes were pre-determined. Successful iHS scans have been performed in smaller sample sizes than those used in this study.		
2.	Data exclusions			
	Describe any data exclusions.	We excluded related individuals from our iHS scan. We excluded multi-allelic variants and indels from our initial iHS scan to reduce compute time.		
3. Replication				
	Describe whether the experimental findings were reliably reproduced.	We compared our iHS signatures to those previously reported in published scans for positive selection, and report the overlap in the manuscript. We also report where the signatures highlighted in the paper have been previously reported.		
4.	Randomization			
	Describe how samples/organisms/participants were allocated into experimental groups.	N/A		
5.	Blinding			
	Describe whether the investigators were blinded to group allocation during data collection and/or analysis.	N/A		
Note: all studies involving animals and/or human research participants must disclose whether blinding and randomization were used.				

6. Statistical parameters

For all figures and tables that use statistical methods, confirm that the following items are present in relevant figure legends (or in the Methods section if additional space is needed).

n/a Confirmed

\ge] The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement (animals, litters, cultures, etc.)
\boxtimes		A description of how samples were collected, noting whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
\boxtimes		A statement indicating how many times each experiment was replicated
	\boxtimes	The statistical test(s) used and whether they are one- or two-sided (note: only common tests should be described solely by name; more complex techniques should be described in the Methods section)
	\boxtimes	A description of any assumptions or corrections, such as an adjustment for multiple comparisons
	\boxtimes	The test results (e.g. P values) given as exact values whenever possible and with confidence intervals noted
	\boxtimes	A clear description of statistics including central tendency (e.g. median, mean) and variation (e.g. standard deviation, interquartile range)
\ge		Clearly defined error bars
		See the web collection on statistics for biologists for further resources and guidance.

Software

Policy information about availability of computer code

7. Software

Describe the software used to analyze the data in this study.

The iHS scan was performed using WHAMM, which is freely available at coruscant.itmat.upenn.edu. All other software used was developed and published by other groups and is freely available. Custom code used to process results from WHAMM and fastPHASE will be available at https://github.com/kelsj/ sharedSweeps.

For manuscripts utilizing custom algorithms or software that are central to the paper but not yet described in the published literature, software must be made available to editors and reviewers upon request. We strongly encourage code deposition in a community repository (e.g. GitHub). *Nature Methods* guidance for providing algorithms and software for publication provides further information on this topic.

Materials and reagents

Policy information about availability of materials				
8.	Materials availability			
	Indicate whether there are restrictions on availability of unique materials or if these materials are only available for distribution by a for-profit company.	None		
9.	Antibodies			
	Describe the antibodies used and how they were validated for use in the system under study (i.e. assay and species).	N/A		
10. Eukaryotic cell lines				
	a. State the source of each eukaryotic cell line used.	N/A		
	b. Describe the method of cell line authentication used.	N/A		
	c. Report whether the cell lines were tested for mycoplasma contamination.	N/A		
	d. If any of the cell lines used are listed in the database of commonly misidentified cell lines maintained by ICLAC, provide a scientific rationale for their use.	N/A		

Animals and human research participants

Policy information about studies involving animals; when reporting animal research, follow the ARRIVE guidelines

11. Description of research animals

Provide details on animals and/or animal-derived materials used in the study.

N/A

Policy information about studies involving human research participants

12. Description of human research participants

Describe the covariate-relevant population characteristics of the human research participants.

N/A