***eLife’s* transparent reporting form**

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**Sample-size estimation**

* You should state whether an appropriate sample size was computed when the study was being designed
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* If no explicit power analysis was used, you should describe how you decided what sample (replicate) size (number) to use

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The sample size is indicated in the methods sections and in table 2. As this is a tool manuscript we did not perform any sample size estimation. We did apply the tool to 71,054 sections demonstrating its efficiency.

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This information does not apply here, as the manuscript does not make a biological claim.

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* Statistical analysis methods should be described and justified
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* Report exact p-values wherever possible alongside the summary statistics and 95% confidence intervals. These should be reported for all key questions and not only when the p-value is less than 0.05.

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We don’t use statistical methods to compare samples, as we are not claiming any biological finding. We do use measures of centrality to perform quality control. These are described in figures 4, 5 and 6

(For large datasets, or papers with a very large number of statistical tests, you may upload a single table file with tests, Ns, etc., with reference to sections in the manuscript.)

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* Indicate how samples were allocated into experimental groups (in the case of clinical studies, please specify allocation to treatment method); if randomization was used, please also state if restricted randomization was applied
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* Include model definition files including the full list of parameters used
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Please indicate the figures or tables for which source data files have been provided:

Source data for figures 4 and 5 has been uploaded. Do its large size (multiple petabytes) it was not possible to upload all the complete datasets. One of the datasets is also publicly available in www.microns-explorer.com