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Reporting Summary

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Statistics				
For all statistical analys	es, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.			
n/a Confirmed				
\square The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement				
A statement of	A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly			
The statistical Only common to	test(s) used AND whether they are one- or two-sided ests should be described solely by name; describe more complex techniques in the Methods section.			
A description	of all covariates tested			
A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons				
A full descript AND variation	ion of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)			
For null hypot	hesis testing, the test statistic (e.g. F , t , r) with confidence intervals, effect sizes, degrees of freedom and P value noted 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 e	ffect 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 c	ode			
Policy information abou	ut <u>availability of computer code</u>			
Data collection	Olympus CellSense software was used to acquire microscopy images. Arduino software was used to generate custom code for colonies time-lapse analysis acquisition.			
Data analysis	Matlab 2017, GraphPad Prism 8 and R 3.5.1 was used to analyze data.			
We strongly encourage code	om algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors/reviewers. deposition in a community repository (e.g. GitHub). See the Nature Research guidelines for submitting code & software for further information.			
Data				
- Accession codes, un - A list of figures that	ut <u>availability of data</u> Include a <u>data availability statement</u> . This statement should provide the following information, where applicable: Ique identifiers, or web links for publicly available datasets Ique identifiers associated raw data			
Data are available on FigS	hare.			
Field-speci	fic reporting			
Please select the one b	elow that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.			
✓ Life sciences	Behavioural & social sciences Feological evolutionary & environmental sciences			

Life sciences study design				
All studies must disclose on these points even when the disclosure is negative.				
Sample size	Sample size	nple size was limited to the number of clinical isolates retrieved from the patient.		
Data exclusions	Grey zone ir	y zone in figures 3c correspond to the detection limit. As mentioned in the text, data points in this zone were excluded.		
Replication	Experiments	periments were replicated at least 3 times in at least 3 technical replicates.		
Randomization	NA	IA AI		
Blinding	NA			
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. Materials & experimental systems Methods				
n/a Involved in the study n/a Involved in the study				
Antibodies				
Eukaryotic		Flow cytometry		
Palaeontolo Animals an	ogy id other organ	MRI-based neuroimaging		
Clinical data				
Human research participants				
Policy information a	about <u>studie</u>	es involving human research participants		
Population charac	cteristics	One single patient		
Recruitment		NA		
Ethics oversight		Cantonal ethic commission Zürich		
Note that full information on the approval of the study protocol must also be provided in the manuscript.				

Clinical data

Policy information about <u>clinical studies</u>

 $All\ manuscripts\ should\ comply\ with\ the\ ICMJE\ \underline{guidelines\ for\ publication\ of\ clinical\ research}\ and\ a\ completed\ \underline{CONSORT\ checklist}\ must\ be\ included\ with\ all\ submissions.$

Clinical trial registration	NA
Study protocol	NA
Data collection	University Hospital Zurich
Outcomes	NA