



and how that in turn affects our memories, decisions and actions. Genetic and genomic data can be used not only to understand the precursors for individual differences (for example, why are some people more at risk for post-traumatic stress disorder than others? Is there a genetic contribution to individual differences in educational attainment?), but also to reveal the biological consequences of behaviour (for instance, what are the consequences of assortative mating on the genome?). The scope of biological data used to build and validate accounts of human behaviour is extensive. To name but a few: skin conductance and pupil dilation are measures of uncertainty or fear in psychological studies; brain imaging is not

purely focused on recordings of neural activity but also offers precise maps of differences and disease-related changes in brain morphology, used in psychiatric and neuropsychological research. Biological samples such as saliva, blood, bone and teeth taken off the living or the long-deceased help us to understand the conditions under which we thrive or perish.

Simulation data cut across fields, disciplines and sciences. The product of mathematical or computational models, simulation is used to formalize predictions, and verify accounts of how and why humans behave the way we do. Simulations are uniquely flexible, because they can be applied to a very wide range of data and validated in both synthetic and

real-world data. This way, simulation has become a tool for theory building and testing that lies at the heart of confirmatory research into any aspect of human behaviour, ranging from the signals of cells to the actions of nations.

*Nature Human Behaviour* is defined by its theme, not by methodology or data type. There is a vast array of data types that speaks to the 'how' and 'why' of human behaviour at different levels of explanation, and we welcome submissions from all walks of science, regardless of method or data type. The richer and more diverse, the better. □

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