Animal Farm must give way to doublethink when studying addiction

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Letter to the Editor

A recent editorial in Nature titled ‘Animal Farm’ argued against a lobbying campaign that aims to prevent animals from being used for addiction research\(^1\), rebutting the view from the lobbyists that ‘addiction is a social problem’ and claiming instead that it is a ‘brain disease’. It seems to us that the authors of the editorial mirrored the mistake being made by the lobbyists in ignoring a large body of research that does not fit their world view: evidence showing that addiction is socially patterned, and that prevalence responds to influences that do not need to assume pathology, such as social marketing campaigns (in the case of smoking), price rises (tobacco and alcohol), recovery without treatment arising from a change in personal circumstances, and restrictions on availability\(^2\).

Readers of Addiction will be familiar with the perennial debate about the extent to which addiction is a brain disease.\(^3\)-\(^12\) After many decades of research in this area, it must be preferable to frame the problem in terms that permit the gamut of potentially effective interventions to be harnessed, not just those that focus on pathological failures in choice or executive control mechanisms or powerful acquired drives\(^13\).

George Orwell coined the term ‘doublethink’ to refer to the act of holding contradictory views in different contexts. When it comes to a socially defined construct such as addiction, where definitions serve a utilitarian function, this is no bad thing. In fact, there are well-articulated models that can explain addiction in terms that permit a focus on biological, psychological and social aspects depending on the context. These models (e.g. PRIME Theory\(^2\)) bring together such apparently diverse zeitgeists into coherent explanations that make predictions for effectiveness of interventions that are borne out by the evidence\(^2,13\). It would be helpful if people working in the field across the spectrum from basic to social science would set their research agenda within these integrative approaches so that we can make faster progress and apply the knowledge gained more effectively.
Competing interests

JB’s post is funded by a fellowship from the UK Society for the Study of Addiction; RW is funded by Cancer Research UK; Cancer Research UK, the Department of Health, Pfizer, GlaxoSmithKline and Johnson and Johnson have all funded data collection for the Smoking Toolkit Study; JB has received an unrestricted research grant from Pfizer; TR & RW undertake research and consultancy and receive fees for speaking from companies that develop and manufacture smoking cessation medications. RW also has a share of a patent for a novel nicotine delivery device. There are no other financial relationships with any organisations that might have an interest in the submitted work.

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