

# Nice but naughty -- our addiction to chocolate

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Chocolate is the most widely and frequently craved food. People readily admit to being 'addicted to chocolate' or willingly label themselves as 'chocoholics'. A popular explanation for this is that chocolate contains mood-enhancing (psychoactive) ingredients that give it special appeal.

Evidence and logic, however, find little support for this. Substances present in chocolate which have been highlighted as potentially pharmacologically significant include serotonin, tryptophan, phenylethylamine, tyramine and cannabinoids. However, many of these compounds exist in higher concentrations in other foods with less appeal than chocolate.

Professor Peter Rogers, from the University of Bristol, UK, explains: "A more compelling explanation lies in our ambivalent attitudes towards chocolate – it is highly desired but should be eaten with restraint (nice but naughty). Our unfulfilled desire to eat chocolate, resulting from restraint, is thus experienced as craving, which in turn is attributed to 'addiction'."

A further observation is that the most widely preferred chocolate is milk chocolate and chocolate-covered confectionery. These contain a lower amount of cocoa solids, and therefore a lower concentration of potentially psychoactive compounds, than 'dark' chocolate which is not so widely craved.

It is therefore far more plausible to suggest that a liking for chocolate, and its effects on mood, are due mainly to its principal constituents, sugar and fat, and their related orosensory and nutritional effects.

Source: University of Bristol

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