Improving articles reporting nutritional studies of extracts in the *British Journal of Nutrition* and in the *Journal of Nutritional Science*

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Investigation of novel nutrients present in the extracts of plants and other organisms that have benefits to health is a rapidly expanding area of research. For example, the number of papers published on the health effects of plant-derived extracts has increased from less than thirty-five per year before 2007 to over eighty per year in 2011 and 2012 (www.webofknowledge.com search terms: plant extract; nutrition; health), with over 940 primary articles published in total. Robust claims for health benefits from these substances require supporting evidence based on empirical investigations carried out to the highest standards of scientific rigour. Unfortunately, some papers published on such extracts fall short of these standards and so may damage the development and reputation of the field.

The *British Journal of Nutrition* and the *Journal of Nutritional Science* aim to publish high-quality nutritional research including nutritional studies on extracts that have potential health benefits. The Directions to Authors for these journals have been revised following an editorial by Calder (1) and after internal consultation in order to set standards of experimentation for nutritional studies of extracts. These revisions are detailed in the Directions to Authors published in June 2013 (see links from http://www.nutritionsociety.org/publications/nutrition-society-journals). They address three specific areas related to experimental design: (1) the characterisation of the extract; (2) the amount of the extract used; (3) the chemical composition of the extract.

The following principles will be applied to manuscripts that report nutritional studies of the effects of extracts on health-related outcomes. Failure to comply with these directions will result in the automatic rejection of the manuscript. Studies in which the extract or test compound is described as a medicine or is used in non-physiological quantities will also be rejected. The journals will consider for publication reports of nutritional studies of extracts in *in vitro* models, provided that the above criteria are met and that the amount and molecular form of the extract is the same as that which would be encountered by the cell type used in the model if it were in an intact organism.

For studies in whole organisms, the amount of the extract used must fall within a range that could reasonably be expected to be achieved safely in humans, whether the study involves human subjects or animal models of human nutrition, or in animals if they are the specific target for a putative health benefit. Nutritional studies of extracts will be considered for publication, provided that the above criteria are met and that the amount and molecular form of the extract is the same as that which would be encountered by the cell type used in the model if it were in an intact organism.

It is important that authors also consider all of the Directions to Authors when preparing their manuscript.

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