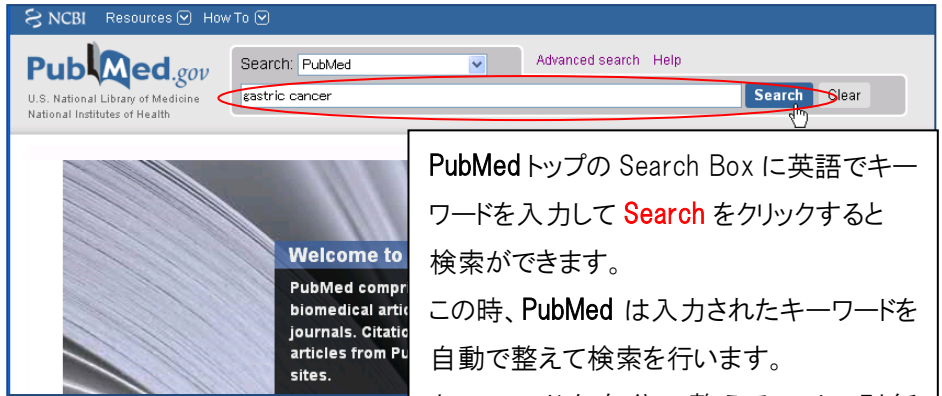


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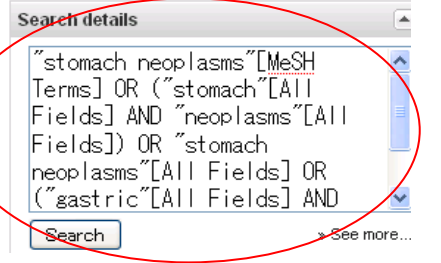


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論文の掲載されている雑誌の情報

Development of an in vitro system combining aqueous and lipid phases as a tool to understand gastric nitrosation.

論文名

Combet E, Preston T, McColl KE.

著者

Section of Human Nutrition, Faculty of Health Sciences, University of Glasgow, Yorkhill Hospital, Glasgow G3 8SF, UK.

Nitrite has long been considered a potential pre-carcinogen for gastric cancer. Acidification of salivary nitrite, derived from dietary nitrate, produces nitrosative species such as NOSCN, NO(+) and N(2)O(3), which can form potent N-nitroso compounds. Ascorbic acid inhibits nitrosation by converting the nitrosative species into nitric oxide. However, NO diffuses rapidly to adjacent lipids, where it reacts with oxygen to reform nitrosative species. It has been studied in vitro in aqueous systems and less frequently in organic systems; however, there is a need to study acid-catalysed nitrosation in a system combining aqueous and lipid environments, hence providing a physiologically relevant model. Here, we describe a two-phase system, which can be used as a tool to understand acid-catalysed nitrosation in a system combining aqueous and lipid environments, hence providing a physiologically relevant model. Here, we describe a two-phase system, which can be used as a tool to understand acid-catalysed nitrosation in a system combining aqueous and lipid environments, hence providing a physiologically relevant model.

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