Encapsulation: A Promising Technology for Future Food Applications, but What Policies are Countries Following Today?

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INTRODUCTION

During food processing, different materials and technologies are employed to fabricate ultra palatable foods with long shelf lives. For instance, encapsulation is an encouraging technique for food manufactures to enclose flavours, vitamins, natural products etc. for attractive foods. However, many people are unaware of the adverse effects of nanomaterials in foods. Besides, food additives are encapsulated in many countries such as Germany, Netherlands, Switzerland, the UK and the USA for commercialized food applications (Lugani et al., 2021). Thus, the encapsulation technology is projected with a high amount of market share, but limited knowledge of nano food digestion is possessed.

Moreover, nanotechnological food packaging applications do not generate any concerns for humans, however, nanoparticles might create some health-related issues such as genotoxicity and cytotoxicity as well (Nile et al., 2020). Hence, the results of nanoparticles on humans, animals and the environment are not known (Bajpai et al., 2018).

References

