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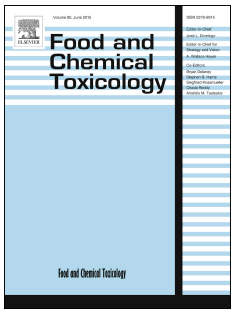

Editorial. Food Safety and Risk Evaluation

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Editorial. Food Safety and Risk Evaluation

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This special issue focuses on how food is essential to life but also on how it can represent a health risk. Food chain and food processing are constantly evolving and show a wide range of risks which, if recognized, can be well managed minimizing their health effects on consumers.

Therefore, the aim is to show innovative studies on food safety and risk assessment that can help public health advisors to protect consumers from food risks through several risk reduction activities.

Several risks are caused by food pollution both by environmental and anthropogenic sources including: microbiological risks due to polluted hands, wastewater soil pollution etc.., (Li et al., 2015; D'Alessandro et al., 2014; Randazzo et al., 2018; Akrami-Mohajeri et al., 2018), organic and inorganic chemical pollutants (Conte et al., 2016; Conte et al., 2015, Adel et al., 2016a; Adel et al., 2016b; Dadar et al., 2016; Sciacca and Oliveri Conti; 2009), drugs (Oliveri Conti et al., 2015; Adel et al., 2017) and physical hazards such as Radon, irradiation and presence of fibers (Derakhshan et al., 2018; Rapisarda et al., 2015; Keramati et al., 2018).

Several important topics were addressed by authors. A large numbers of articles treated the quality of fish, in particular Mexican (Garcia et al., 2018), Italian (Copat et al., 2018, Filippini et al., 2018a; Ferrante et al., 2018; Cristaldi et al., 2018) and Asiatic authors (Adel et al., 2018; Peng et al., 2018) reported the risk assessment about ingestion of metals through seafood highlighting how the risk is currently present and evaluable. Also epidemiologic studies and systematic reviews were considered in this special issue (Filippini et al., 2018b; Zuccarello et al., 2018; Assunção et al., 2018; Rahmani et al., 2018; Shahali & Dadar, 2018; Pereira et al., 2018) to highlight the importance of multidisciplinary approach in food safety and risk evaluation topics.

New techniques and statistical approaches provided a huge amount of data to be exploited to understand and forecast risks in foods and in their production environment including drinking water bonded risks and innovative treatments for lowering of toxic organic and inorganic substances (Salari et al., 2018; Ma et al., 2018; Fallahzadeh et al., 2018; Shooshtarian et al., 2018). Food safety is being challenged nowadays by the global dimensions of food supply