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# Assessment the impact of the analytical methods for pesticide residues quantification in organic products control improvement

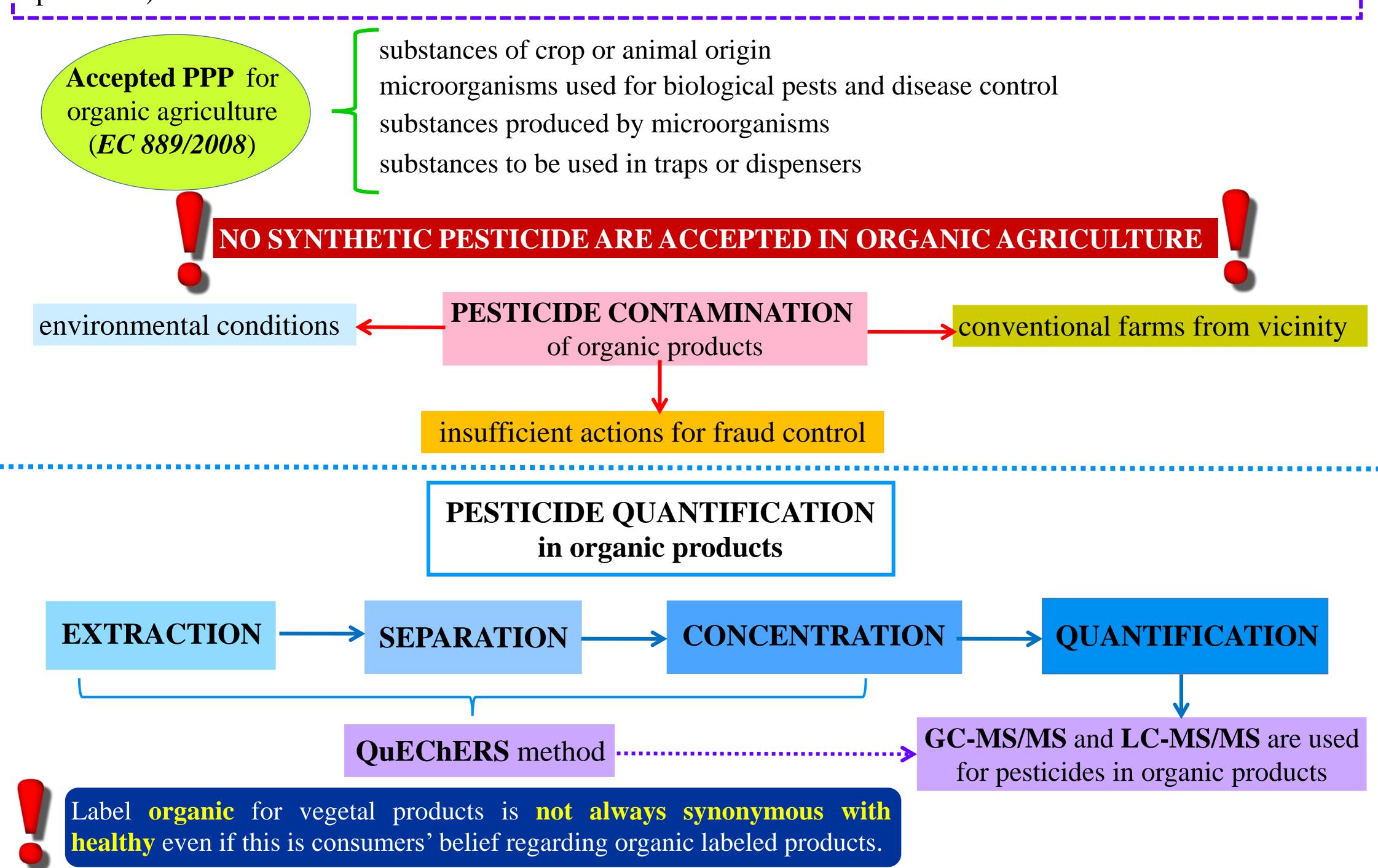
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#### **Abstract**

Pesticides are worldwide used in agriculture to increase yield and crop quality, but there are many concerns and disadvantages related to environmental pollution and human health. Lately, demand and consumption of organic food have increased due to the higher content of bioactive compounds and absence of contaminants (heavy metals, pesticides).



#### **Conclusions**

According to organic agriculture principles, the resulted food crops must not contain pesticide residues, but according to literature date there are situations when through different analytical techniques, pesticide residues have been identified and quantified.

#### **References** (selection)

- 1. M.M. Gomez-Ramos, C.Nannou, M.J.Martinez Bueno, A. Goday, M. Murcia-Morales, C. Ferrer, A. Fernandez-Alba, *Pesticide residues evaluation of organic crops. A critical appraisal*, Food Chemistry, X, (2020), 100079. doi: 10.1016/j.fochx.2020.100079.
- 2. V. Bursić, G. Vuković, M. Cara, M. Kostić, T. Stojanović, A. Petrović, N. Puvaca, D. Marinković, B. Konstantinović, *Plant protection products residues assessment in the organic and conventional agricultural products*, Sustainability, 13, (2021), 1075, https://doi.org/10.3390/su13031075.

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