Dr. Katarzyna Wrobel

Guest editor.

Journal of the Mexican Chemical Society

Dear editor,

In this document is presented the research work entitled **“Selenium uptake and biotransformation and effect of selenium exposure on the essential and trace elements status: comparative evaluation of four edible plants”** byOscar David Guevara Moreno, Francisco Javier Acevedo Aguilar, Eunice Yanez Barrientos**,** which is submitted to be considered for publication as fullarticle in the special issue “Modern analytical chemistry in interdisciplinary research” with your as a guest editor.

The selenium plant enrichment, in addition to providing dietary supplements with organic selenium species, could be a strategy to yield functional foods that guarantee the recommended absorption of essential elements. To contributing to the design of biofortification/supplementation strategies to obtain selenized edible sprouts in Mexico. In this research were selected four types of plants commonly consumed in Mexico (alfalfa, radish, sunflower and chard), they were exposed to different selenite concentrations (0.25 – 10 mg L-1) for 10 days. The growth, uptake and Se biotransformation, as well as the content of essential elements were evaluated. The results obtained indicate that alfalfa exposed to 10 mg L-1 of selenite might be a good candidate for production of selenized dietary supplement, because the content in biomass was relatively high (75.0 μg g-1) with 66% of iSe transformed to oSe in plant and with enhanced uptake of Cu, Mn, Mo, Ca and K.

We consider that our manuscript fulfills the requirements of the Journal of the Mexican Chemical Society.

The authors pronounce that the manuscript is original, and it has not been submitted or published before in any other journal. We declare no conflicts of interest. The corresponding author, accepts the responsibility of including as co-authors all persons appropriate and none inappropriate.

Sincerely,

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