



Acumulaciones de hierro en agroecosistemas bananeros (Milagro, Ecuador): Una revisión bibliográfica de algunos factores que intervienen en la salud y nutrición del cultivo [

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Analítica

This literature review describes from the agronomic point of view, the problems associated with Fe accumulation in banana agroecosystems. The objective of this research was to analyze the factors involved in the accumulation of large amounts of Fe in banana plantations, through the analysis of literature published on this subject in different databases, and the information was compared with foliar and soil analysis of a banana plantation located around Milagro, Ecuador. Results show several factors influencing the accumulation of Fe, which can be transported to the foliage, for which the type of soil is a determining factor together with the cultural practices that preserve the soil microbiome, being the drivers of siderophore metabolites that retain or metabolize heavy metals such as Fe. The results of foliar and soil analysis show nutritional imbalances caused by anthropogenic factors and a high bioaccumulation of Fe in the banana crop in the studied area. In conclusion, we can presently understand better the role of Fe in the banana plantation; however, more research on this element related to anthropogenic pressure and the type of plantation soil needs to be developed. In addition, it is important to explore the biotechnological opportunities that can be offered by siderophore microorganisms present in banana agroecosystems

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