## Abstract

Horticulture is seeing an increase in the use of fertilizers. However, the conventional fertilization method is controlled-release fertilizer systems and nanofertilization are currently being tested. As a result, the primary objective and manganese, as well as their incorporation in the form of micro and nanoparticles, were evaluated. The systems'

with nanotechnology, these systems have a great potential to incorporate micronutrients into crops, enhancing the

## Keywords: $(A, , \boxtimes , e, . Re \boxtimes a e^{\frac{1}{2}} e ea e A A a e, a , a &$ $<math>j = e, . . . . \boxtimes \boxtimes e \cdot a , j = , e$ Introduction

Pa Έe е ⊠, е ⊠, е , e/ a e ee e  $\boxtimes$ e 🛛 e 🖡 ,⊠ ,e aea  $\boxtimes$ ja⁄a 🛛 , ja 3 ťí \$ le e´j e 🛛 🖉 e e 🖾 a e e e, e e JML ∕ b 🍖 ⊠, MMaja,eeMM M ,⊠ ,e l e F Ι, 1 j j e Fe Έ B Έ e  $\mathbf{Z}_{1}$ A a 41 'n ٧. 🛿 е., a e ja a a i 🛛 a . / а a j ,⊠ , e, 🛛 , a . e e 🛛 e e, . e e e e а 1 lej e , e Ъе, e, e a / 'e⊠, a a ea b⊠ e 🖡 MM ae Fe ંચિત્ર ∠j, а e e ⊠ 1 'e e a 🚧 , e j 8 a е. а Į , / e 🖡 ♥. e e /, j. / Ø . е a e а e Xa j a а e a e e e **1** e а а e e 4 ,⊠ , Ье e a, 10. e  $\boxtimes$ ae еi j e, e e e, ľa j e Í a e e а e a, e j a ej, a, Fej a e а a e j e 1 ebea⊠e, eea а Ø , a e e Ζ. a, 🏌 ee 🖡 a e e, ∠∕, a, e ab j e e а а / **\M** e Lá e 🖡 jee e e / e e rъρ а ae а 11 1 [1] e a e⊠ a a e 1 e е .⊠ ,e ľе,  $\boxtimes$ j , e , e 3 а a e a Vie V , 🛛 , e, **⊠**a 🛛 a e e а eae Ùare′⊠j ee e e, , e S⊠ a e а a e . e eae a 🖡 🛛 ae ae, e e ∎ e e ∕ie ebea⊠e . e Ø, be 🎙 b⁄ ⊠b,, , e j a , e a aD 1e . a , je,a / ,, , be, ۴, ī a 1 ⊠, Ø i a e , e e ae · 🔺 ja , . e , e , a 🎙, 🛛 e, / e e , ,/a, <sub>1</sub>  $\boxtimes$ i '⊠e eja, , 🛛 , e, a , , a , aN j e ,a , a e \$\$ e a 🔰 ja b,,∠, ,⊠,e, . e a ja а 41 e a, , , , , b⁄ , **, ⊠e**, , e e La ∕bea⊠e ab j eab, j e⁄aee⊠,eV, a ⊠a, e e ajj, a, /j, a / , ⊠ ∎ e

e ⊠ b, e F a, ⊠ ⊠ e', a, a, , ⊠ ⊠ e, , e, e e F, , ⊠, a, ja, , ⊠ a, , ⊠ j, , e aj e⊠, j⊠ j e a, F ae e, j⊠ j e [] e, ee, ⊠ Fe, Fae a , , , , , , , , , ⊠ ⊠ e aeej ⊠ e F, a ej ee, a je e, , ea e Be a⊠ e .e., e a, Fa.⊠ e ja, a, \*Corresponding author: Puyana Victor, Departamento de Ingeniería Química, Universidad de Sevilla, 41012 Sevilla, Spain, E-mail: pv.victor@puyana.edu

Received: 03-July-2023, Manuscript No. jpgb-23-105181; Editor assigned: 05-July-2023, PreQC No. jpgb-23-105181 (PQ); Reviewed: 19-July-2023, QC No. jpgb-23-105181, Revised: 22-July-2023, Manuscript No. jpgb-23-105181 (R); Published: 29-July-2023, DOI: 10.4172/jpgb.1000160

Citation: Victor P (2023) Horticulture Protein-Based Systems with Controlled Release of Micronutrients: Microns versus Nanons. J Plant Genet Breed 7: 160.

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## Processing of controlled-release systems

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## Conclusion