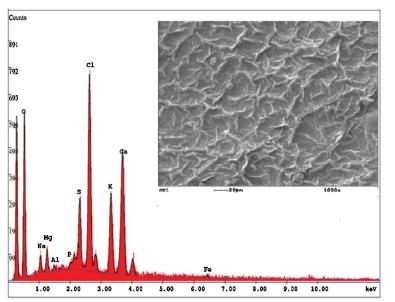
## Green synthesis of sulfur nanoparticles using Punica granatum peelsand the effects on the growth of tomato by foliar spray applications



|  | 0 ppm (Control)  |  | 100 ppm SNPs  |  |
|--|--|--|---|--|
| Element  | Leaves<br>(Wt.%)   | Fruits<br>(Wt.%)   | Leaves<br>(Wt.%)  | Fruits<br>(Wt,%)   |
| C<br>O<br>Na<br>K<br>Mg<br>Ca<br>Fe<br>Si<br>Al<br>P<br>Cl | $46.2 \pm 0.8$<br>$36.1 \pm 0.2$<br>$0.2 \pm 0.02$<br>$7.9 \pm 0.25$<br>$0.7 \pm 0.3$<br>$2.0 \pm 0.21$<br>BDL<br>$0.2 \pm 0.02$<br>$0.1 \pm 0.02$<br>$0.7 \pm 0.05$<br>$3.1 \pm 0.17$ | $51.3 \pm 0.27$ $43.5 \pm 0.26$ $0.2 \pm 0.02$ $2.2 \pm 0.21$ $0.2 \pm 0.02$ $0.3 \pm 0.02$ $0.3 \pm 0.06$ $0.3 \pm 0.06$ $1.3 \pm 0.08$ $0.1 \pm 0.02$ $0.5 \pm 0.02$ | $46.6 \pm 0.35$ $36.1 \pm 0.21$ $0.2 \pm 0.02$ $7.9 \pm 0.25$ $0.7 \pm 0.31$ $2.0 \pm 0.22$ BDL $0.2 \pm 0.02$ $0.1 \pm 0.04$ $0.7 \pm 0.27$ $3.3 \pm 0.18$ | $51.5 \pm 0.46$ $43.5 \pm 0.27$ $0.2 \pm 0.03$ $2.2 \pm 0.20$ $0.21 \pm 0.02$ $0.31 \pm 0.026$ $0.3 \pm 0.036$ $0.3 \pm 0.04$ $1.4 \pm 0.36$ $0.11 \pm 0.02$ $0.51 \pm 0.03$ |
| S<br>BDL= Below De   | BDL<br>etection Limit  | BDL  | 1.0 ± 0.02  | 0.11 ± 0.03  |

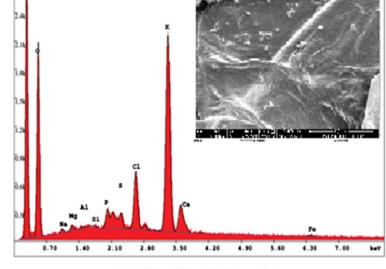


Fig. 4. SEM and EDS analysis of tomato leaves.

Fig. 5. SEM and EDS analysis of tomato lfruits.

- \* They use SEM to see the structure of tomato leafs and fruits
- \* Additional the use of EDS was to confirm the elements that compound those leafs and fruits
- \* They conclude that the use of SNP are beneficial to the plant growth.



