



Variation and origin of the tomato

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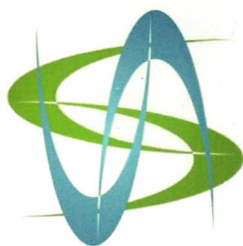
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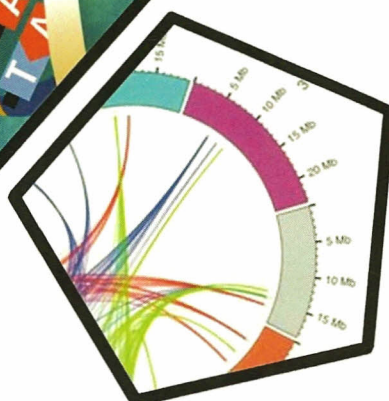
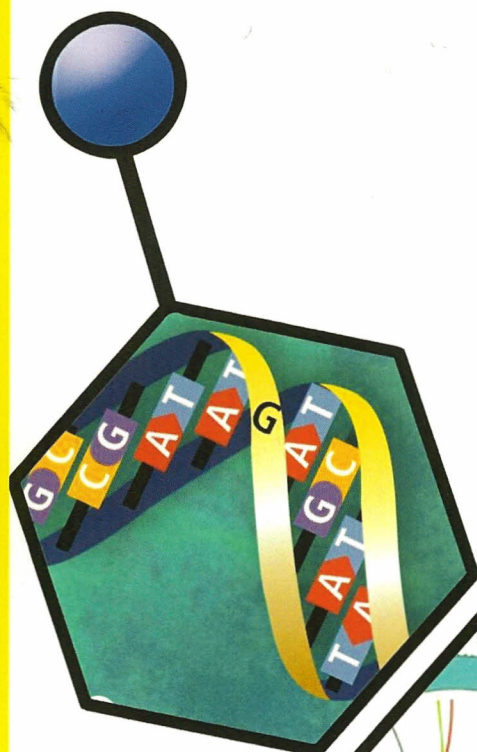
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Variation and Origin of the Tomato

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A joint SolCAP dataset of 1000 tomato genotypes was assembled including a comprehensive representation of *S. pimpinellifolium* (SP), *S. lycopersicum* varieties cerasiforme (SLC) and *lycopersicum* (SLL). Traditionally SLC has been considered as formed by the cherry tomatoes, but that was shown to be a misconception. The cherry tomatoes included both SLC accessions and hybrids and admixtures between SP, SLC and SLL. The results showed that SLC is a semi-domesticated with a key role in the complex history of the tomato domestication. Moreover SLC contained the South American vintage cultivated tomatoes. Andean SLC had a gene diversity comparable to SP, while non-Andean SLC and vintage SLL showed a lower diversity. The contemporary cultivated SLL also had a low diversity despite the introgressions added in the second half of the 20th century.