Hort 510 Seminar

Nutraceutical Horticulture

An Overview of Biochemical and Molecular Considerations

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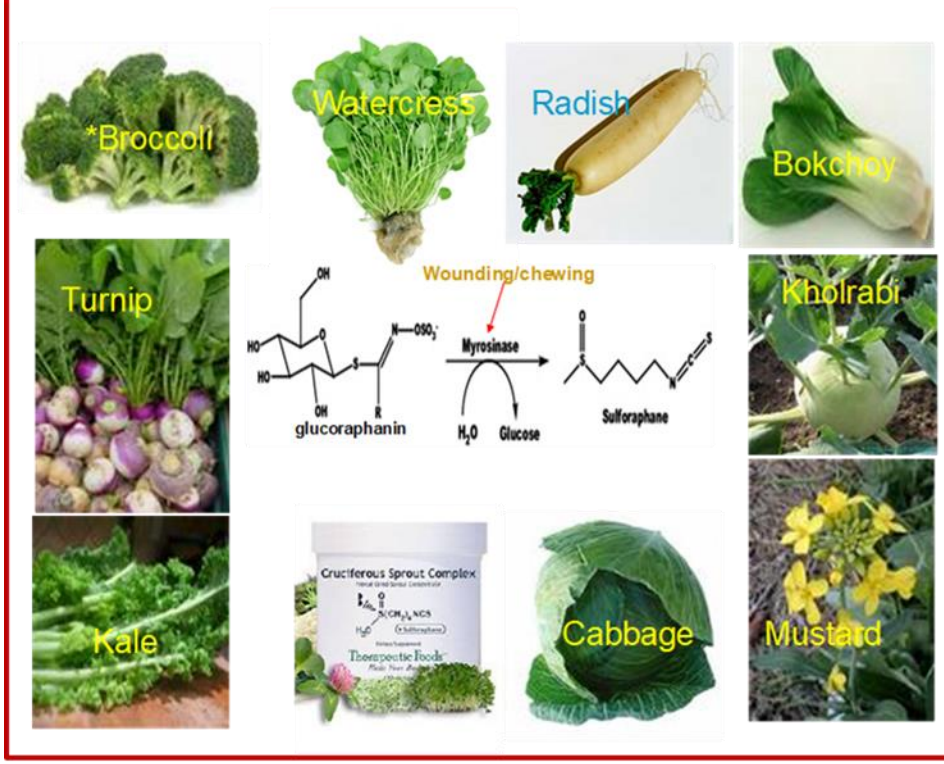

In addition to the generally-recognized food components, fruits, vegetables and spices produce secondary metabolites that contribute toward human health. They are recognized as **nutraceuticals**. Among other benefits, nutraceuticals can modulate the activity of cytoplasmic *transcription factors* in mammalian cells. Upon activation, transcription factors modulate cell-function to initiate development of metabolic disorders. Several nutraceuticals have been recognized as inhibitors of transcription factors such as *NF-kB*. For example, capsaicin (chilies), gingerol (ginger), curcumin (turmeric), anethole (anise, coriander), eugenol (clove), sulforaphanes (Brassicas) are known to inhibit activation of *NF-kB*. This seminar explores the health benefits of nutraceuticals of *Horticultural Crops* at cellular level.

September 17, 2020; 2.45 pm