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## 14th International Conference on Agriculture & Horticulture

August 15-16, 2019 | Rome, Italy

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Introduction : Traditional herbs and spices are widely consumed in the world and contains numerous bioactive components that are bene cial to consumer health. Documents have endorsed that a diet enriched with fruit, vegetables and spices can reduce the risk of developing major cancers. Purpose: is study aimed to evaluate the growth inhibitory activities of four medicinal herbs including sa ron, ginger, cinnamon and curcumin on oral squamous cell carcinoma (OSCC) cell line (KB).

Materials and Method: Having obtained the aqueous extracts of the four herbs, they were administered on KB per se and in dual, triple, and quadruple combinations. eir cytotoxic e ects were measured in di erent concentrations a er 24 and 48 hours using MTT assay.

Results: e minimum and maximum concentrations of extracts were respectively 108 and 217 mg/ml for curcumin with IC30 of 77 mg/ml, 108 and 270 mg/ml for ginger with IC30 of 58 mg/ml, 2 and 10 mg/ml for sa ron with IC30 of 1.9 mg/ml, and 5 and 40 mg/ml (100% cytotoxicity) for cinnamon with IC30 of 3.3 mg/ml.

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