

CELL SIGNALING, CELL THERAPY AND CANCER THERAPEUTICS

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The presence of breast cancer related proteins in saliva

Charles F Streckfus

University of Texas School of Dentistry, USA

The objective of this presentation is to introduce a catalogue of salivary proteins that are altered secondary to carcinoma of the breast. The catalogue of salivary proteins is a compilation of 20 years of research by the author and consists of 233 high and low abundant proteins which have been identified by LC-MS/MS mass spectrometry, 2D-gel analysis and by enzyme-linked immunosorbent assay. Many of the identified proteins are present in the majority of cancer related pathways. Consequently, the body of this research suggests that saliva is a fluid suffused with solubilized by-products of oncogenic expression and that these proteins may be useful in the study of breast cancer progress, treatment efficacy and the tailoring of individualized patient care.

charles.streckfus@uth.tmc.edu