



An insight into the role of Epidermal Growth Factor Receptor (EGFR) in oral squamous cell carcinomas

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Abstract:

Despite many advances in the field of therapeutics for oral cancers, morbidity rate remains high and five years survival rate is moderately improved. As it is known that, head and neck carcinomas are sixth most frequent type of human cancer globally, among which oral squamous cell carcinoma is common type. Role of EGFR has gained much important in head and neck squamous cell carcinoma as a potential target for new therapies. EGFR consists of an extracellular N-terminal ligand-binding domain, a hydrophobic transmembrane region, and an intracellular C-terminal tyrosine kinase (TK) domain. The EGFR gene can be mapped to chromosome 7p11.2 and encodes a 170-kDa transmembrane glycoprotein. Alterations in the function of EGFR have been linked with oncogenic transformation, autonomous cell growth, invasion, angiogenesis, and development of metastases in several cancers and are key characteristics of tumours. In recent years, EGFR has been considered a promising target for monoclonal antibody targeted therapy in conjugation with nanotechnology. The objective of the presentation is to highlight the significance of EGFR as targeted therapy for the oral squamous cell carcinomas.

Biography:

Ugrappa Sridevi currently working as senior lecturer in the Faculty of Dentistry, AIMST University, Malaysia. She is awarded with gold medal in her postgraduation



in field of Oral Medicine and Radiology. She is awarded with fellowship in Digital Dental Internationale India. She is a devoted academician with vast clinical and teaching experience of more than a decade. Her passion towards research in the field of oral cancer lead to pursue her doctorate in philosophy in the same field. She has attended various national and international conferences and has keen interest in organizing various workshops and conferences. She is editorial member and reviewer of various reputed journals and has notable number of publications in indexed peer reviewed journals.

Publication of speakers:

1. Ugrappa Sridevi. Photodynamic therapy-a non-invasive treatment modality for precancerous lesions. *Journal of lasers in medical sciences*. 2016 (1), 30.
2. Ugrappa Sridevi. Photodynamic therapy-a non-invasive treatment modality for precancerous lesions. *Journal of lasers in medical sciences*, 2016. 7 (1), 30.

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