

Tissue Science and Molecular Biology, Stem Cells & Separation Techniques

June 06-07, 2019 | London, UK

Molecular biology applications in oral and maxillofacial surgery

Raniah Al Eid

King Saud University, Saudi Arabia

Genetic developments during the 20th century had a great impact on our lives initiated by Mendel principles in 1900. Following the publication of the entire human genome sequence in 2004 chromosomes now can be rapidly analyzed very precisely by microarray techniques and next generation sequencing providing the genetic studies useful for clinical applications. Up to now the number of phenotypes with a known molecular basis reached 5500 while the number of genes with a phenotype causing mutation reached 3400. Genetic is becoming significant to every medical field. Recent discoveries have influences not only on rare genetic diseases and syndromes but extend too many common human disorders. The advancement of genetics refers back once the structure of DNA was discovered in 1953 by James Watson and Francis Crick, while nucleic acid was actually detected in 1849. Then in 1960s, the unraveling of the sequence of bases

in DNA and the sequence of amino acids in protein called genetic code, was achieved with sophisticated techniques. Molecular biology provided wide applications in different areas such as genetically modified disease resistant crops, therapeutic drugs produced by genetically engineered animals and the advances to introduce vaccines that are DNA-based. In this article, we are reviewing the general application of molecular biology and its advances in the field of oral and maxillofacial surgery.

Speaker Biography

Raniah Al Eid has completed her master science of oral and maxillofacial surgery from King Saud University. She has published several papers in reputed journals and has been serving as a faculty member in KSU, department of oral and maxillofacial surgery.

e: dr.raniahaleid@hotmail.com

 Notes: