

Title: SC - SBL Redirect **S**tem **C**ell growth by using **S**ingle **B**eam **L**aser and apply the appropriate conditions to produce modified cancer attacking gene .

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Redirect stem cell growth by using single beam laser and apply the appropriate conditions to produce modified gene can attack cancer cells at any stage. The stem cell which is axis of study is obtained from 5th day blastocyst (Embryonic stem cells which is Totipotent) and it is also defined by the expression of several transcription factors and cell surface proteins. The transcription factors Oct-4, Nanog, and Sox2 form the core regulatory network that ensures the suppression of genes that lead to differentiation and the maintenance of pluripotency. The cell surface antigens most commonly used to identify hES cells are the glycolipids stage specific embryonic antigen 3 and 4 and the keratan sulfate antigens Tra-1-60 and Tra-1-81. By using human embryonic stem cells to produce specialized cells and treating it with special technique , then applying the standared scaffold with special characters , the aim is to produce gene which can attack the growing cancer cells at any stage . The study put focus on replacing the P35g – site which control process of apoptosis . The study has two major dimensions, first, is physical one " using the idea of remote control" as you can manage the gene behavior physically with changing special frequencies. Second, chemical side, by using some enhancers and inducers during the flux of the modified gene .

Biography

Author has completed his B.Ch (Bachelor of surgery and medicine) in November , 2012 from Zagazig University school of medicine . Work as a “Teacher Assistant of Human Anatomy and Embryology” since 2014 , Member of the national society of Human Anatomists . Researcher at stem cell unit and has many researches related to treating cancer . Certified first aid trainer from Mansoura university since 2014. Speaker at many conferences especially the international conference titeled “ Stem Cell & Nano technology ” held in 2014 . Master degree in “ Human anatomy and embryology” at Mansoura university school of medicine since 2016 . Hold IELTS from british council since 2017 .

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Session name/ number: Stem Cells attacking cancer / 1
Category: (Oral presentation/ Poster presentation)