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Regenerative Medicine for orthopaedics conditions

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Cell therapy promises to treat patients with faulty organs (such as the heart, lungs, and liver). Clinical research trials using adult somatic stem cells are currently on going. Osiris Therapeutics, Inc., has shown promise in its line of mesenchymal cells that will help prevent graft vs. host disease common after bone marrow transplants. Osiris Therapeutics, Inc. also uses these somatic stem cells to produce cartilage in injured and arthritic knees and is conducting clinical trials in patients with heart disease. Stem cells in tissue engineering- Tissue engineering are dependent on the premise of the body's own maintenance system. A "scaffold" made of nylon or a biomaterial such as collagen is transplanted into the body. Cells use the scaffold as foundation, transforming it over a period time with

organic three-dimensional tissue. Human embryonic stem cells can be used for functional organs, such as a human heart. Somatic rejection or acceptance is key factor that determines whether these stem cell-directed structures can operate efficiently and last the patient's full lifetime. The Geron stem cell company is clinically testing the safety of their therapy, during the practical surgery following a traumatic injury by fixing damaged human nerves. This would have a positive impact eventually beyond spinal injury to even affect demyelinating diseases, such as multiple sclerosis. Projected to impact Parkinson's disease, where depletion of cells that develop dopamine results in neurons to fire out of control causing depleted function of motor movements.

Biography

Anthony B. Goodesmith served as a highly decorated combat signaler/communications officer in the U.S. Army and New Jersey National Guard for over 18 years. His units took part in Operation Desert Storm, and several other military campaigns after the 9/11 U.S. Terror Attacks (Operations Enduring Freedom and Noble Eagle). He received his BS in Marketing and Media Arts from Long Island University, NY, and his Master's degree in Biotechnology Management from The University of Maryland University College (UMUC). He has been working in the health care, medical industry in sales and management for over 20 years at several Fortune 500 pharmaceutical and medical device companies. Such as Eli Lilly & Company, Solvay Pharmaceuticals, AstraZeneca, Inc., Roche Laboratories, Inc. and now Standard Medical Systems, LLC. He has received the Elite Salesman Award, President's Award, U.S. Congressional VIP Citation, and achieved #1 status in selling various pharmaceutical drugs and medical devices throughout his career. He shares his tremendous expertise as a staff writer for the DC Health-Technology Examiner, based on his exceptional knowledge about the epidemiology of health-related issues and via medical device, regenerative, biological solutions.

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