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World Biotechnology Congress

July 16-17, 2018 Berlin, Germany

Keynote Forum



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Akuma Saningong

Maximizing Your Potential- Empowering you, Germany

The new biology of epigenetics

The science of epigenetics, which literally means control above genetics, profoundly changes our understanding of how life is controlled. Environmental influences including nutrition, stress and emotions, can modify genes without changing their basic blueprint. The environment serves as a “contractor” who reads and engages those genetic blueprints and is ultimately responsible for the character of a cell’s life. It is a single cell’s awareness of the environment that primarily sets into motion the mechanisms of life. In fact epigenetics, the study of the molecular mechanisms by which the environment controls gene activity, is today one of the most active areas of scientific research. Epigenetics reveals that when we change our perceptions and environment, our genes can change as well. The idea that our perceptions override our genes is now at the forefront of medical research. Everything we’ve left out of the medical model - energy, thoughts, spirit - now turns out to be the primary mechanism of interaction with physical reality. In this presentation, the basic concepts of epigenetics and how it is changing our understanding to health and disease is being shared. And above all, having same genes doesn’t mean same having the same fate.

Biography

Akuma Saningong is a Master Communicator. He has completed his PhD in Natural Sciences with emphasis on biotechnology and protein biochemistry. He was the former University Lecturer in Molecular Biology and Polymer Chemistry, former Head of R&D in the sustainable use of bio-wastes to produce biobased products, former Director of three international research and innovation networks with key players from academia and industry. His research areas of interest are protein biochemistry, molecular biology, biotechnology and polymer chemistry.

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Jose Antonio Cruz

Kurago Biotek, Mexico

Life in balance as the most powerful energy to matter, matter to energy convertor

There is no greatest marvelous in the universe than life in balance, since the big bang to actual time, the most refined and sophisticated energy to matter, matter to energy convertor is life in balance. When life is in balance has three main characteristics; is high efficient, sustainable and because such levels of performance, all what life in balance produce are beautiful. The human body has balance metabolically when their three biomass be in homeostasis; Genome, Microbiome and Epigenome. Each one of them interact with the others to get perfect full organic balance, when this homeostasis is reached, human can live 120 years plenty in cognitive and psychomotor conditions. Human cells have a natural tendency to keep balance, will try to compensate any un balance at microbiome and epigenome, describing in this behavior some kind of cellular hysteresis. To keep life in balance at human body is necessary to interact with external environment to get air to breathe, food to feed, water to hydrated and sun to synthesize some vitamins and nutriments, the connection between internal biomass and external biomass in nature is our brain, the concept of two brains, the regular one and our intestine as second one could be evolve considering just one brain that is deploy in our body since regular brain, get down by nervous system, interconnect with peripheric nervous system and with enteral nervous system, in all of this interconnections epigenetic is present, then this just one brain is deploy in our digestive system that allow the interaction whit the microbiome, with this interact as well with our food that come from external biomass, because looks like life in balance some way is all connected.

Biography

Jose Antonio Cruz – CEO of Kurago Biotek, Mexico, he was conducting internship program along worldwide in many colleges to give awarness about Food Biotechnology. His research area of interest includes Biotechnology, Food Microbiology, Genetics.

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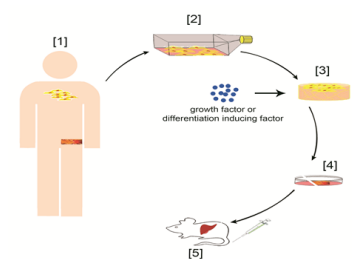


Laila M Montaser

Menoufia University, Egypt

Hepatic tissue engineering and regenerative medicine

Tissue engineering proves to be a precarious therapy for hepatic failure patients. In spite of the massive obstacles offered by the intricacy of the liver's structure and function, improvements in liver physiology, stem cell biology and reprogramming and the engineering of tissues and machines are speeding the evolution of stem cell-based therapies for curing liver diseases. The expression hepatic tissue engineering briefs one of the maximum targets of novel biotechnology: The potential of proliferation the functions of the liver for the sake to cure liver failures and, ultimately, may originate a well workable organ to be implanted or used as an apparatus situated outside the body. For effective tissue regeneration, the cells constituting the tissues to be regenerated are needed. Bone marrow Mesenchymal Stem Cells (MSCs) are hopeful nominees for cell therapy and tissue engineering. A great complication experienced with stem cell therapies has been the failure of injected cells to imbed to objective tissues. The application of nanotechnology to stem cell biology would be able to finesse those defies. These combinations allow nanotechnology to engineer scaffolds with various countenances to control stem cell destiny resolutions. Fabrication of nano-fibrous scaffolds onto which stem cells can adhere and spread, forming a niche-like microenvironment which can drive stem cells to go ahead to repair injured tissues. In this manuscript, existing and emergent tactic based on stem cells in the domain of liver tissue engineering is offered for precise implementation. The combination of stem cells and tissue engineering launches novel standpoints in tissue regeneration for stem cell therapy because of the probable to monitor stem cell attitude with the features of the engineered scaffold milieu. Presently, hepatogenic differentiation of stem cells has produced confidence and troth for use of these cells in hepatic tissue engineering.



Biography

Laila M Montaser is the Head of Stem Cell, Regenerative Medicine, Tissue Engineering & Nanotechnology (SRTN) Group, Professor of Clinical Pathology at the School of Medicine in Shebin El-Kom, Menoufia, Egypt. She also serves as the Head, Founder of Clinical Pathology Department, School of Medicine, Menoufia University, Egypt. She has received her undergraduate degree at School of Medicine, Alexandria University, Egypt and her MSc and MD degrees at School of Medicine, Tanta University. She is the President, Chief Scientist, Founder of Stem Cell, Regenerative Medicine, Tissue Engineering & Nanotechnology (SRTN) Group (Inaugural holder of the SRTN Chair). She was appointed as an Editorial Board Member/peer Reviewer of many international journals.

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Joel I Osorio

RegenerAge International, USA

RegenerAge system: Therapeutic effects of combinatorial biologics (mRNA and allogenic MSCs) with a spinal cord stimulation system on a patient with spinal cord section

As it has been previously demonstrated that co-electroporation of *Xenopus laevis* frog oocytes with normal cells and cancerous cell lines induces the expression of pluripotency markers and in experimental murine model studies that mRNA extract (Bioquantine®) purified from intra and extra-oocyte liquid phases of electroporated oocytes) showed potential as a treatment for a wide range of conditions, including Spinal Cord Injury (SCI) among others. The current study observed beneficial changes with Bioquantine® administration in a patient with severe SCI. Pluripotent stem cells have therapeutic and regenerative potential in clinical situations CNS disorders even cancer. One method of reprogramming somatic cells into pluripotent stem cells is to expose them to extracts prepared from *Xenopus laevis* oocytes. The positive human findings for spinal cord injury with the results from previous animal studies with experimental models of traumatic brain injury and SCI, respectively as our evidence and due to ethical reasons, legal restrictions and a limited number of patients, we were able to treat only a very small number of patients, deciding to include in our protocol the RestoreSensor SureScan to complete it. Based on the electrical stimulation for rehabilitation and regeneration after spinal cord injury published by Hamid and MacEwan, we designed an improved delivery method for the *in situ* application of MSCs and Bioquantine® in combination with the RestoreSensor® SureScan®. To the present day the patient who suffered a complete section of spinal cord at T12-L1 shows an improvement in sensitivity, strength in striated muscle and smooth muscle connection, 13 months after the first treatment and 6 months after the placement of RestoreSensor® at the level of the lesion, showing an evident improvement on his therapy of physical rehabilitation (legs movement) on crawling forward and backwards and standing on his feet for the first time and showing a progressively important functionality on both limbs.

Biography

Joel L osorio is the CEO and Founder of Biotechnology and Regenerative Medicine at RegenerAge International™ H Vice President of International Clinical Development for Bioquark, Inc. and Chief Clinical Officer at ReAnima™ Advanced Biosciences. Advance Fellow by the American Board of Anti-Aging and Regenerative Medicine (A4M), Visiting Scholar at University of North Carolina at Chapel Hill (Dermatology). Fellow in Stem Cell Medicine by the American Academy of Anti-Aging Medicine and University of South Florida

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