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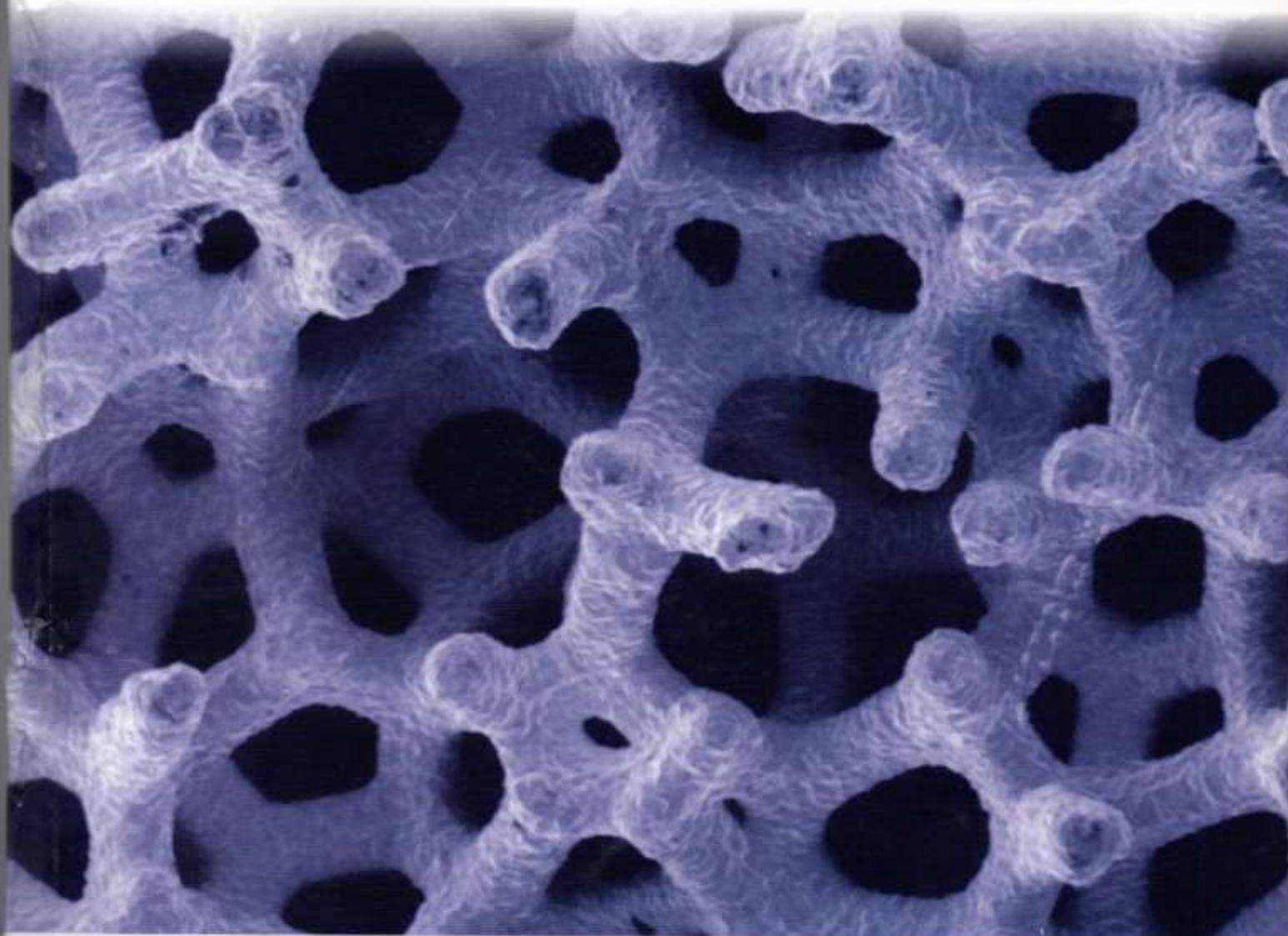
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Cell Science & Stem Cell Research

November 12-14, 2012 Hilton San Antonio Airport, USA



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Impact Factors (IF) and Index Copernicus Values (ICV)

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Journal of Analytical & Bioanalytical Techniques	J Anal Bioanal Tech	2.63	5.33
Journal of AIDS & Clinical Research	J AIDS Clin Res	4.9	5.3
Journal of Addiction Research & Therapy	J Addict Res Ther	1.13	5.22
Journal of Aquaculture Research & Development	J Aquacult Res Dev	0.62	5.15
Journal of Allergy & Therapy	J Allergy Ther	1.07	4.47
Journal of Anesthesia & Clinical Research	J Anesth Clin Res	0.48	5.13
Journal of Antivirals & Antiretrovirals	J Antivir Antiretrovir	2.65	4.81
Journal of Biometrics & Biostatistics	J Biom Biostat	1.5	4.47
Journal of Bioequivalence & Bioavailability	J Bioequiv Availab	2	-
Journal of Bioanalysis & Biomedicine	J Bioanal Biomed	1.21	6.17
Journal of Biosensors & Bioelectronics	Biosens Bioelectron	3.57	-
Journal of Bioterrorism & Biodefense	J Bioterror Biodef	1.27	4.66
Journal of Bioremediation & Biodegradation	J Bioremed Biodeg	3.5	5.07
Journal of Cancer Science & Therapy	J Cancer Sci Ther	4.25	5.09
Journal of Cell Science & Therapy	J Cell Sci Ther	3.14	4.14
Journal of Clinical & Experimental Ophthalmology	J Clin Exp Ophthalmol	0.5	4.9
Journal of Carcinogenesis & Mutagenesis	J Carcinogen Mutagen	4.14	5.04
Journal of Chemical Engineering & Process Technology	J Chem Eng Process Technol	-	5.04
Journal of Clinical & Experimental Cardiology	J Clin Exp Cardiol	1.07	5.3
Journal of Clinical & Cellular Immunology	J Clin Cell Immunol	2.11	4.45
Journal of Clinical Research & Bioethics	J Clin Res Bioeth	1.14	4.1
Journal of Clinical & Experimental Dermatology	J Clin Exp Dermatol Res	1.13	5.27
Journal of Computer Science & Systems Biology	J Comput Sci Syst Biol	2.53	5.81
Journal of Cytology & Histology	J Cytol Histol	1.04	4.4
Journal of Chromatography & Separation Techniques	J Chromat Separation Techniq	2.07	4.81
Journal of Data Mining in Genomics & Proteomics	J Data Mining Genomics Proteomics	1.33	4.55
Journal of Diabetes & Metabolism	J Drug Metab Toxicol	3.21	6.07
Journal of Drug Metabolism & Toxicology	J Diabetes Metab	1.27	-
Journal of Earth Science & Climatic Change	J Earth Sci Climate Change	0.66	-
Journal of Food Processing & Technology	J Food Process Technol	2.15	4.87
Journal of Forensic Research	J Forensic Res	0.05	4.4
Journal of Genetic Syndromes & Gene Therapy	J Genet Syndr Gene Ther	1.44	-
Hydrology: Current Research	Hydrol Curr Res	0.38	4.93
Journal of Molecular Biomarkers & Diagnosis	J Mol Biomark Diagn	2.04	4.37
Journal of Microbial & Biochemical Technology	J Microb Biochem Technol	2.04	5.51
Journal of Neurology & Neurophysiology	J Neural Neurophysiol	0.83	-
Journal of Nanomedicine & Nanotechnology	J Nanomed Nanotechnol	5.72	4.04
Journal of Proteomics & Bioinformatics	J Proteomics Bioinform	2.22	9
Pharmaceutica Analytica Acta	Pharmaceut Anal Acta	1.4	5.33
Journal of Pharmacogenomics & Pharmacoproteomics	J Pharmacogenomics Pharmacoproteomics	1.3	4.71
Journal of Petroleum & Environmental Biotechnology	J Petrol Environ Biotechnol	3.14	4.81
Journal of Plant Pathology & Microbiology	J Plant Pathol Microb	0.42	4.54
Journal of Steroids & Hormonal Science	J Steroids Horm Sci	1.66	4.37
Journal of Thermodynamics & Catalysis	J Thermodynam Cat	0.14	-
Journal of Tissue Science & Engineering	J Tissue Sci Eng	2.17	4.88
Journal of Vaccines & Vaccination	J Vaccines Vaccin	1.73	6.26
Journal of Veterinary Science & Technology	J Vet Sci Technol	-	4.22

Impact Factor Calculation:

*Unofficial 2011 Impact Factors were established by dividing the number of articles published in 2010 and 2011 to that were cited in 2011 based on a search of the Google Scholar Citation Index database, by the number of articles published in the previous two years (2010 and 2011).

A = the number of times, articles published in 2010 and 2011, were cited by indexed journals during 2011

B = the total number of "citable items" published by that journal in 2010 and 2011.

Impact Factor (IF) = A/B

(Ref: http://en.wikipedia.org/wiki/Impact_factor)

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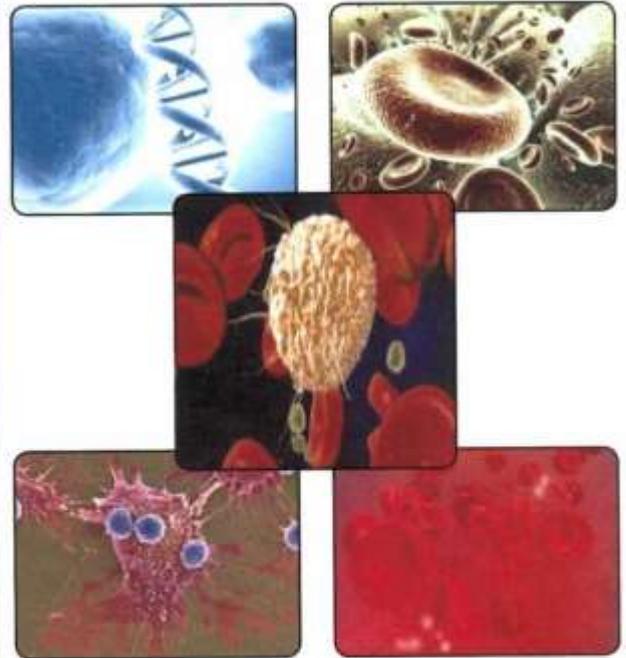


Cell being the smallest part of every organism, is a building block of life. Cell therapies often focus on the treatment of hereditary diseases, with methods of gene therapy. The journal describes biology of a cell and the process of pioneering new cells into a tissue in order to negotiate a disease.

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	Cell Therapy : Clinical Trails Nam H Dang Professor Division of Hematology/ Oncology University of Florida Gainesville, USA Tel: +1-352-273-9103	
	Central Nervous System: Cell Therapy Alluru S Reddi Professor Department of Medicine UMDNJ-New Jersey Medical School New Jersey, USA Tel: +1-973-972-6052	
	Gene Therapy: Somatic & Germline Sha-Jun (Jim) Du Associate Professor Department of Biochemistry and Molecular Biology University of Maryland, USA Tel: +1-410-234-8854 Fax: +1-410-234-8896	
	Cell-based Therapies of Blood Diseases: Malignant and Non-malignant Shengwen Calvin Li Adjunct Professor & Senior Scientist, Department of Neurology Research Laboratory Center University of California, USA Tel: +1-714-289-4964 Fax: +1-714-289-4351	
	Autophagy Ken Hayashi Assistant Director Department of Otolaryngology Keio University Japan	

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	Cell-based Therapies of Blood Diseases: Malignant and Non-malignant Gloria Morris Assistant Professor Department of Medicine Mount Sinai Hospital of Queens, USA Tel: +1-570-342-3675	
	Stem Cells: Reprogramming & Therapy Rajasingh Johnson Assistant Professor Department of Medicine Cardiovascular Research Institute, University of Kansas Medical Center USA	
	T-Cell: Biology and Therapy Tinghua Cao Senior Research Scientist Johnson & Johnson, Baylor Institute for Immunology Research Centocor R&D, USA Tel: +1-610-651-6748 Fax: +1-610-889-4623	
	Transplantation ShouWei Han Associate Professor Department of Hematology and Medical Oncology Emory University, USA Tel: +1-404-727-4523	
	Stem Cell Therapy Yiqiang Zhang Staff Scientist Department of Molecular Medicine, Beckman Research Institute City of Hope, USA	
	Cancer Therapy Zareen Amtul Research Scientist Department of Anatomy and Cell Biology University of Western Ontario, London ON N6A 5C1, Canada	

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Stem cells differ from other types of cells as they are unspecialized cells that are capable of differentiating into almost any type of specialised cells. Stem cells have the ability to replace the diseased and damaged tissue in the body, without the risk of rejection and any side effects. Therapy performed using stem cells is termed as "Regenerative Medicine" and has many potential benefits in treating a wide variety of diseases and injuries. The journal is the major open access forum for translational research in stem cell therapies.

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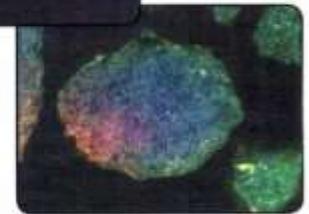
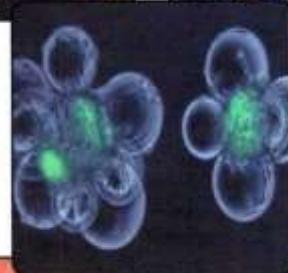
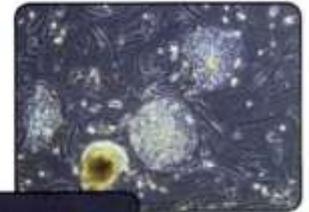
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Upcoming Conferences



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- 3rd International Conference and Exhibition on **Analytical & Bioanalytical Techniques**
November 22-24, 2012 Hyderabad International Convention Centre, India
- International Conference and Exhibition on **Cosmetology & Cosmetics**
November 23-24, 2012 Hyderabad International Convention Centre, India
- 2nd International Conference on **Pharmaceutical Regulatory Affairs**
November 23-24, 2012 Hyderabad International Convention Centre, India
- International Summit on **GMP & GCP: USA, Europe, Japan, Asia Pacific**
December 3-5, 2012 DoubleTree by Hilton Philadelphia Center City, USA
- International Conference on **QA, QC and Validation**
December 3-5, 2012 DoubleTree by Hilton Philadelphia Center City, USA
- 3rd International Conference and Exhibition on **Pharmaceuticals & Novel Drug Delivery Systems**
April 8-10, 2013 Hilton Chicago/Northbrook, USA
- 4th World Congress on **Bioavailability and Bioequivalence: Pharmaceutical R & D Summit**
May 20-22, 2013 Beijing, China
- 2nd International Conference and Exhibition on **Biowaivers & Biosimilars**
September 23-25, 2013 Kansas/Michigan, USA
- 2nd International Conference on **Material Sciences & Engineering**
October 15-17, 2013 Crowne Plaza, CA, USA
- QC, QA and Validation**
October 15-17, 2013 Crowne Plaza, CA, USA
- 2nd International Expo and Conference on **Analytix and HPLC**
October 15-17, 2013 Crowne Plaza, CA, USA
- 2nd Annual **Pharmacovigilance & Clinical Trials Conference**
October 21-23, 2013 Marriott, India
- International Conference and Exhibition on **Pharmacognosy & Phytochemistry**
October 21-23, 2013 Marriott, India
- 2nd International Summit on **Toxicology & Applied Pharmacology**
November 4-6, 2013 Crowne Plaza, California, USA
- International Summit on **Clinical Pharmacy & Dispensing**
November 18-20, 2013 Hilton San Antonio Airport, Texas, USA

Computer Science

- International Conference & Workshop on **Ethical Hacking and Cyber Security**
December 9-11, 2013 India
- International Conference on **Global Networking and Telecommunications**
December 9-11, 2013 India
- International Conference on **Computer Science/Software & Advanced Information Technology**
September 23-25, 2013 Marriott, India
- 2nd International Conference and Exhibition on **In silico & QSAR (CADD)**
September 4-6, 2013 Crowne Plaza, Miami, Florida

Medical Sciences

- International Conference on **Genetic Syndromes & Gene Therapy**
November 19-21, 2012 Hilton San Antonio Airport, USA
- International Conference on **Anesthesia & Perioperative Care**
November 26-28, 2012 Hilton San Antonio Airport, USA
- International Conference and Exhibition on **Surgery & Transplantation**
November 26-28, 2012 Hilton San Antonio Airport, USA
- International Conference on **Hair Transplantation & Trichology**
November 26-28, 2012 Hilton San Antonio Airport, USA
- International Conference and Exhibition on **Obesity & Weight Management**
December 3-5, 2012 DoubleTree by Hilton Philadelphia, USA
- 2nd International Conference on **Gastroenterology & Urology**
June 10-12, 2013 Hilton Chicago/Northbrook, USA
- 2nd International Conference and Exhibition on **Nutritional Science & Therapy**
July 15-17, 2013 DoubleTree by Hilton Philadelphia Center City, USA
- 2nd International Conference and Exhibition on **Addiction Research & Therapy**
July 22-24, 2013 Embassy Suites Las Vegas, USA

- 2nd International Conference and Exhibition on **Nephrology & Therapeutics**
July 29-31, 2013 Embassy Suites Las Vegas, USA
- 2nd International Conference on **Translational Medicine**
August 5-7, 2013 Holiday Inn Chicago-Northshore, USA
- International Conference on **Predictive, Preventive and Personalized Medicine & Molecular Diagnostics**
Holiday Inn Chicago-Northshore, USA
- 4th World Congress on **Diabetes & Metabolism**
August 14-16, 2013 Holiday Inn Chicago-Northshore, USA
- International Conference on **Dental & Oral Health**
August 19-21, 2013 Embassy Suites Las Vegas, USA
- 2nd International Conference and Exhibition on **Orthopedics & Rheumatology**
August 19-21, 2013 Embassy Suites Las Vegas, USA
- International Conference and Exhibition on **Physical Medicine & Rehabilitation**
August 19-21, 2013 Embassy Suites Las Vegas, USA
- World Congress on **Endocrinology**
August 26-28, 2013 Double tree by Hilton, Raleigh NC, USA
- International Conference and Exhibition on **Cognitive, Behavioral Psychology & Psychotherapy**
August 27-28, 2013 Double tree by Hilton, Raleigh NC, USA
- International Conference on **Gynecology & Women's Health**
September 16-18, 2013 Hampton Inn Tropicana, Las Vegas, USA
- International Conference on **Sexology and Sexual Medicine**
September 16-18, 2013 Hampton Inn Tropicana, Las Vegas, USA
- 3rd International Conference on **Pediatrics and Neonatology**
September 16-18, 2013 Hampton Inn Tropicana, Las Vegas, USA
- 2nd International Conference on **Pulmonary & Respiratory Medicine**
September 30-October 2, 2013 Hilton San Antonio Airport, Texas, USA
- 2nd International Conference on **Otolaryngology**
September 30-October 2, 2013 Hilton San Antonio Airport, Texas, USA
- International Conference on **Hematology & Blood Disorders**
October 15-17, 2013 Hampton Inn Tropicana, Las Vegas, USA
- International Conference and Exhibition on **Traditional & Alternative Medicine**
December 9-11, 2013 Marriott, India
- International Conference on **Nursing & Emergency Medicine**
December 2-4, 2013 Hampton Inn Tropicana, Las Vegas, USA
- World Symposia on **Autism, Parkinson's Disease & Alzheimer's Disease**
December 2-4, 2013 Hampton Inn Tropicana, Las Vegas, USA

Clinical

- International **Toxicology Summit & Expo**
November 26-28, 2012 Hilton San Antonio Airport, USA
- 3rd International Conference on **Clinical & Experimental Cardiology**
April 15-17, 2013 Hilton Chicago/Northbrook, USA
- 3rd International Conference on **Clinical & Experimental Dermatology**
April 15-17, 2013 Hilton Chicago/Northbrook, USA
- 3rd International Conference on **Clinical & Experimental Ophthalmology**
April 15-17, 2013 Hilton Chicago/Northbrook, USA
- 2nd International Conference on **Occupational Health & Safety**
May 20-22, 2013 Beijing, China
- 2nd International Conference and Exhibition on **Neurology & Therapeutics**
June 17-19, 2013 Hilton Chicago/Northbrook, USA
- 4th International Conference on **Biomarkers & Clinical Research**
July 16-17, 2013 DoubleTree by Hilton Philadelphia Center City, USA
- 3rd International Conference on **Vaccines & Vaccination**
July 29-31, 2013 Embassy Suites Las Vegas, USA
- 2nd International Conference and Exhibition on **Pathology**
August 5-7, 2013 Embassy Suites Las Vegas, USA
- 2nd International Conference on **Emerging Cell Therapies**
August 12-14, 2013 Marriott, Singapore
- International Conference on **Molecular Epidemiology and Evolutionary Genetics**
August 21-23, 2013 Crowne Plaza, Miami, Florida, USA

2nd International Conference on
Central Nervous System - Drug Effects & Novel Drug Development
October 7-9, 2013 Hampton Inn Tropicana, Las Vegas, USA

2nd International Conference on **Forensic Research & Technology**
October 7-9, 2013 Hampton Inn Tropicana, Las Vegas, USA

3rd World Congress on **Cancer Science and Therapy**
October 21-23, 2013 Crowne Plaza, CA, USA

International Conference on **HIV/AIDS, STDs, & STIs**
October 24-25, 2013 Crowne Plaza, Miami, Florida, USA

Engineering & Applied Sciences

International Conference on **Probiotics**
November 19-21, 2012 Hilton San Antonio Airport, USA

2nd International Conference on **Nanotek and Expo**
October 7-9, 2013 Hilton San Antonio Airport, Texas, USA

2nd International Conference and Exhibition on
Biosensors & Bioelectronics
June 17-19, 2013 Hilton Chicago/Northbrook, USA

2nd International Conference and Exhibition on
Biometrics & Biostatistics
June 10-12, 2013 Hilton Chicago/Northbrook, USA

World Expo on **Robotics and Mechatronics**
August 12-14, 2013 DoubleTree by Hilton, Raleigh NC, USA

International Conference on **Metereology & Cosmology**
August 14-16, 2013 Holiday Inn Chicago-Northshore, USA

International Conference on **Radiology & Imaging**
Aug 14-17, 2013 Holiday Inn Chicago-Northshore, USA

International Conference and Exhibition on **Lasers, Optics & Photonics**
October 7-9, 2013 Hilton San Antonio Airport, Texas, USA

International Conference and Exhibition on
Mechanical & Aerospace Engineering
September 23-25, 2013 Kansas/Michigan, USA

International conference and Exhibition on
Biochemical & Molecular Engineering
October 7-9, 2013 Hilton San Antonio Airport, Texas, USA

2nd **Global Biofuels and Bioproduct Summit**
October 28-30, 2013 Kansas, USA

World Congress on **Petrochemistry and Chemical Engineering**
November 18-20, 2013 Hilton San Antonio Airport, Texas, USA

International Conference and Exhibition on
Solar & Power Generation Technologies
November 20-22, 2013 India

International Conference and expo on
Electrical & Electronics Engineering
November 20-22, 2013 India

World Congress on
Applied Physics: Biomedical Engineering Systems and Technologies
November 20-22, 2013 India

OMICS

2nd International Conference and Exhibition on
Metabolomics & Systems Biology
April 8-10, 2013 Hilton Chicago/Northbrook, USA

3rd International Conference on **Proteomics & Bioinformatics**
July 15-17, 2013 DoubleTree by Hilton Philadelphia Center City, USA

International Conference on **Omics Studies**
September 4-6, 2013 Crowne Plaza, Miami, Florida, USA

International Conference on **Functional & Comparative Genomics**
November 13-14, 2013 Holiday Inn Chicago, NorthShore, USA

Life Sciences

International Conference and Exhibition on
Food Processing & Technology

3rd World Congress on **Virology**
July 15-17, 2013 Marriott, Singapore

International Conference on **Animal & Dairy Sciences**
July 23-24, 2013 Embassy Suites Las Vegas, USA

International Conference on **Integrative Biology Summit**
August 5-7, 2013 Embassy Suites Las Vegas, USA

International Conference and Symposia on
Genetic Engineering & Genetically Modified Organisms
August 12-14, 2013 Double tree by Hilton, Raleigh NC, USA

2nd International Conference on **Tissue Science & Engineering**
September 4-6, 2013 Crowne Plaza, Miami, Florida, USA

2nd International Conference on **Agricultural & Horticultural Sciences**
September 23-25, 2013 Marriott, India

4th World Congress on **Biotechnology**
September 23-25, 2013 Kansas/Michigan, USA

International Conference on **Entomology**
September 30-October 2, 2013 Hilton San Antonio Airport, Texas, USA

International Conference on
Fermentation Technology, Bio Processing & Cell Culture
October 28-30, 2013 Kansas, USA

International Congress on **Bacteriology & Infectious Diseases**
November 20-22, 2013 Hilton Pikes Villa, Baltimore, USA

Environmental

2nd International Conference on **Earth Science & Climate Change**
July 22-24, 2013 Embassy Suites Las Vegas, USA

2nd International Conference on
Biodiversity & Sustainable Energy Development
August 12-14, 2013 Double tree by Hilton, Raleigh NC, USA

International Conference on
Aquatic and Marine Biology (Oceanography)
August 21-23, 2013 Crowne Plaza, Miami, Florida, USA

International Conference on
Manging Environmental Hazards and Natural Disasters
August 21-23, 2013 Crowne Plaza, Miami, Florida, USA

2nd International Conference on **Hydrology and Groundwater Expo**
August 26-27, 2013 Double tree by Hilton, Raleigh NC, USA

International Conference on **Archaeology & Anthropology**
November 18-20, 2013 Hilton San Antonio Airport, Texas, USA

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75th OMICS Group Conference

2nd World Congress on

Cell Science & Stem Cell Research

November 12-14, 2012 Hilton San Antonio Airport, USA

Relevant Conferences



International Conference on

Genetic Syndromes & Gene Therapy

November 19-21, 2012 Hilton San Antonio Airport, USA

Theme: "Building on Clinical Progress & Exploring Advances in Gene Therapy"

The International Conference on Genetic Syndromes & Gene Therapy is a unique platform to advance knowledge, awareness and education by amalgamating Science and Technology using the sanative applications of clinical & sdiagnostic therapeutic strategies in defending various issues related to Genetics and Genetic disorders.

Scientific Tracks**Track 1: Gene Therapy**

- Track 1-1 Novel technologies for gene transfer
- Track 1-2 Gene transfer to induce cellular reprogramming
- Track 1-3 Molecular cloning and expression of a new gene
- Track 1-4 Gene expression in mononuclear cells
- Track 1-5 Transfer and expression of genes in humans

Track 2: Viral Vectors for Gene Therapy

- Track 2-1 Immune response to viral vectors
- Track 2-2 Viral entry and nuclear translocation
- Track 2-3 Host cell response to viral infection
- Track 2-4 Innate & adaptive immune response to viral infection
- Track 2-5 Approaches to blocking the immune response to viral infection
- Track 2-6 Suppression & stimulation of the immune response by gene transfer
- Track 2-7 Improvements in vector development

Track 3: Molecular Therapy

- Track 3-1 Novel anticoagulant therapy
- Track 3-2 Bridging therapy
- Track 3-3 Biomarkers of endocrine therapy
- Track 3-4 Therapeutic cancer vaccines
- Track 3-5 DNA vaccination for treatment of cancer
- Track 3-6 Targeted molecular therapies

Track 4: Diagnosing Genetic Syndromes

- Track 4-1 Molecular techniques
- Track 4-2 FISH analysis
- Track 4-3 Mental retardation syndromes database
- Track 4-4 Neonatal screening
- Track 4-5 Early genetic amniocentesis
- Track 4-6 Chorionic villus sampling
- Track 4-7 Gene silencing

Track 5: Gene Therapy in the Retina

- Track 5-1 RNA based therapeutics for retinal degenerative disorders
- Track 5-2 Vector based strategies for retinal gene therapies
- Track 5-3 Gene therapy for retinal degenerative

Track 6: Developmental Genetics

- Track 6-1 Immunogenetics
- Track 6-2 Neurogenetics
- Track 6-3 Evolution and population genetics
- Track 6-4 Medical genetics and heredity counseling
- Track 6-5 Human genetic disorders
- Track 6-6 Human embryology & developmental analysis of human genetics

Track 7: Genetic Disorders

- Track 7-1 Single gene disorder
- Track 7-2 Multifactorial and polygenic (complex) disorders
- Track 7-3 Prognosis and treatment of genetic disorders
- Track 7-4 Genetic syndrome associated with glucose intolerance
- Track 7-5 Hereditary disorders

Track 8: Gene Therapy for Autoimmune Diseases & Epigenetics

- Track 8-1 Hereditary multiple exostoses
- Track 8-2 Adenomatous polyposis
- Track 8-3 Genomic imprinting and related disorders
- Track 8-4 Transgenerational epigenetic observations
- Track 8-5 Cancer and developmental abnormalities computational epigenetics
- Track 8-6 Induced pluripotent stem cells and potential therapies

Track 9: Applied Molecular Biology

- Track 9-1 Genetic variation and diversity
- Track 9-2 Molecular evolution
- Track 9-3 Genetic diseases caused by alterations of RBP or RNA sequence
- Track 9-4 RNAi mechanisms and miRNAs

Track 10: Current Strategies in Gene Therapy

- Track 10-1 Recombinant DNA and gene transfer
- Track 10-2 Human gene therapy and the role of the food and drug administration
- Track 10-3 Genetics & Oncology
- Track 10-4 Hereditary neuropathy
- Track 10-5 Genome stability and DNA repair

Track 11: Clinical Genetics

- Track 11-1 Pharmacogenetics
- Track 11-2 Neurogenetics
- Track 11-3 Community genetics
- Track 11-4 Molecular cytogenetics
- Track 11-5 Reproductive genetics
- Track 11-6 Gene expression profiling

Track 12: Cancer Genetics

- Track 12-1 Oncogenes
- Track 12-2 Tumor suppressor genes
- Track 12-3 Viruses & human cancer
- Track 12-4 Genetics & toxicity
- Track 12-5 Gene silencing & genome imprinting
- Track 12-6 RNA interference

Track 13: Genetic Mapping Methods / Linkage analysis

- Track 13-1 Cloning and expression systems
- Track 13-2 Molecular genetic processes
- Track 13-3 Mobile genetic elements
- Track 13-4 Cellular and organismal genetic processes
- Track 13-5 Ethical, legal and social implication of genetics

OMICS Group is organizing Gene Therapy-2012 with the overwhelming support from more than 200 Editorial Board Members of related journals, that includes Journal of Genetic Syndromes & Gene Therapy, Hereditary Genetics and Human Genetics & Embryology

Editorial Board Members of Supporting Journals

	Kenneth Blum Professor Department of Psychiatry University of Florida, USA Tel: 619-890-2167			Yiqiang Cai Associate professor Department of Internal Medicine Yale University School of Medicine USA Tel: 203-737-2941	
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	Prem Arora Paediatrics Advisory Member Wayne State University Children's Hospital of Michigan, USA Tel: 313-745-4000			Aldi T Kraja Professor Department of Genetics Washington University, USA Tel: 314-362-2498 Fax: 314-362-4227	

Confirmed Speakers Including

Ricki Lewis

American Society of Human Genetics, USA

Dawn E. Post

SUNY Upstate Medical University, USA

Kirk J. McManus

University of Manitoba, USA

William J. Rowe

Fellow British Interplanetary Society, UK

Chatchai Tayapiwatana

Chiang Mai University, Thailand

Prem Arora

Wayne State University, USA

Yiqiang Cai

Yale University School of Medicine, USA

Kenneth Lundstrom

Pan Therapeutics Rue des Remparts, Switzerland

Juan Ren

Xian Jiao Tong University, China

Jianzhong Su

Harbin Medical University, China

Join your Peers @ Gene Therapy-2012

- Are you interested in organizing a track?
- Organizing a small symposium at this venue?
- Organizing a small workshop at this conference?
- Deliver a speech?
- Present a poster/oral presentation?
- Sponsor the event?
- Exhibit at the event?
- Participate in B2B meeting?

Please contact: genetherapy2012@omicsonline.com
<http://omicsonline.org/genetherapy2012>



Editors

Journal of Genetic Syndromes & Gene Therapy
Hereditary Genetics
Human Genetics & Embryology

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3rd World Congress on**Cancer Science & Therapy**

October 21-23, 2013 California, USA

Theme: "Innovations and Novel Therapeutic strategies in Cancer Science"

OMICS Group is delighted to invite you to attend the 3rd World Congress on Cancer Science & Therapy during October 21-23, 2013 at California, USA.

3rd World Congress on Cancer Science & Therapy serves as a reunion land for scientists in the area of cancer research. This Conference aims to bring together academic scientists, leading engineers, industry researchers and scholars to exchange and share their experiences and research results about all aspects of Cancer Science and therapy, and discuss the practical challenges encountered and the solutions adopted.

The scientific program will include workshops, symposia and poster sessions on a wide range of Cancer Science topics. The conference will also feature a showcase of exhibitors for you to explore. Leading oncologists will descend upon the City to share and examine innovative scientific breakthroughs in cancer science from basic science to clinical research.

The previous two conferences on Cancer Science, which were held at Las Vegas, USA and San Antonio, USA, have explained Novel Approaches in Cancer Research & Therapy and Emerging Trends in Cancer Science. The programme was a rich mix of formats ranging from oral sessions featuring many well-known and thought provoking key speakers to intense and highly interactive discussion sessions. The scientific program also helped to pave a way to gather visionaries through the research talks and presentations and put forward many thought provoking strategies in Cancer Science and Therapy.

Now it is the time for the 3rd World Congress on Cancer Science & Therapy to share the Knowledge and Innovations and Novel Therapeutic strategies in Cancer Science which will be held in California, USA.

Scientific Tracks**Track 1: Cancer Therapy and Clinical Cancer Research**

Track 1-1 Cancer: Gene expression & protein profiling; Surgery & laparoscopy

Track 1-2 Radiotherapy & chemotherapy

Track 1-3 Hormone replacement therapy

Track 1-4 Molecular-targeted therapies

Track 1-5 Clinical medicine & targeting anti cancer drugs

Track 1-6 Therapeutic targets in cancer

Track 1-7 Clinical research in cancer immunology

Track 1-8 Anticancer gene therapy and stem cells therapy

Track 2: Cancer Cell Biology, Diagnostic and Prognostic Cancer Biomarkers

Track 2-1 Cancer stem cells and metastatic growth

Track 2-2 Cell signaling and membrane proteins: Inflammation and inflammatory factors in cancer development

Track 2-3 Metastatic cell growth & adhesion: Apoptosis & cell division

Track 2-4 Biomarkers in cancer therapy & molecular diagnostics

Track 2-5 DNA methylation and mutation based biomarkers, prognostic biomarkers

Track 2-6 Biomarkers based on cancer types

Track 3: Organ-Specific Cancers, Cancer Genetics, Drug Development & Diagnostics

Track 3-1 Breast cancer, lung cancer, brain cancer, skin cancer and sarcomas

Track 3-2 Liver, prostate, kidney, ovarian and cervical cancer

Track 3-3 Blood, lung & leukemia cancer

Track 3-4 Bone & thyroid cancer

Track 3-5 Gastrointestinal & colorectal cancer

Track 4: Carcinogenesis & Mutagenesis and OMICS in Cancer Research

Track 4-1 Metabolism of carcinogens

Track 4-2 Biological & external factors for carcinogenesis

Track 4-3 Cancer Research: Clinical & experimental oncology

Track 4-4 Cancer cell lines: Genomics & proteomics

Track 5: Advances in Cancer Detection, Imaging, Management & Prevention

Track 5-1 Biomarkers in cancer detection

Track 5-2 Diet & physical exercise

Track 5-3 Chemoprevention

Track 5-4 Environmental factors

Track 5-5 Chemotherapy of cancers

Track 6: Anti-Cancer Drug Discovery and Development

Track 6-1 New cancer biomarkers as drug targets

Track 6-2 Anticancer drugs targeting protein kinase inhibitors

Track 6-3 Anticancer drugs targeting Tumor Necrosis Factor (TNF) and chemokine receptors

Track 6-4 Antibodies for cancer therapy

Track 6-5 Anticancer drugs targeting signalling pathways and regulators

Track 6-6 Anticancer drugs targeting GPCR, Nuclear receptor inhibitors and hormonal therapies

Track 6-7 Apoptotic inducers, targeting apoptosis signaling pathways and their mediators

Track 7: Innovation Technologies in Cancer Research

Track 7-1 Protein chips, tissue chips, lab-on-chip and microarray

Track 7-2 Proteomics, genomics and other Omics in cancer research

Track 7-3 PET, cancer digital imaging and image-guided technologies

Track 7-4 Anticancer drug resistance and new molecule searching

Track 7-5 Bioinformatics, drug design and computer aided anticancer drug discovery

Track 8: Tumor Science

Track 8-1 Tumor virology

Track 8-2 Tumor immunology and immunotherapy

Track 8-3 Tumor microenvironment and research

Track 8-4 Tumor varieties: Benign, pre-malignant, malignant

Track 8-5 Tumor progression, invasion and metastasis

Track 9: Industrial Leaders' in Cancer Research

Past Conference Report (Cancer Science-2012)

2nd World Congress on Cancer Science & Therapy, hosted by the OMICS Group was held on September 10-12, 2012 in Hilton San Antonio Airport, USA. Generous response and active participation received from the Researchers, Scientists from cancer research institutes, Government Organizations, Principal Investigators from NCI & NIH and Editorial Board Members of OMICS Group helped in making this meeting an ostentatious success.

Keynote presentations of Dr. Sudhakar Akul Yakkanti, Dr. Dan A. Dixon, Dr. Alexei G Basnakian, Dr. Homer S Black and Dr. Sophia Ran was very prolific to the scientific community and they lifted up solutions and illustrated a way on the theme "Emerging trends in Cancer Science and Therapy."

Especially on the scientific sessions like Organ-Specific Cancers, Cancer Cell Biology, Cancer Genetics: Cancer Therapy, Carcinogenesis & Mutagenesis, Diagnostic and Prognostic Cancer Biomarkers, we found more energetic contribution from scientists, researchers and principal investigators. Presentations during these sessions were excellent. It established a new prospect and hopes on ongoing projects in Cancer Science & Therapy.

With the huge optimistic response from scientific fraternity, industries, renowned personalities and editorial board members of OMICS Group across the world, we would like to announce **3rd World Congress on Cancer Science & Therapy** during December 2-4, 2013 at California, USA.

Join your Peers @ Cancer Science- 2013

- Are you interested in organizing a track?
- Organizing a small symposium at this venue?
- Organizing a small workshop at this conference?
- Deliver a speech?
- Present a poster/oral presentation?
- Sponsor the event?
- Exhibit at the event?
- Participate in B2B meeting?

Please contact: cancerscience2013@omicsgroup.org

<http://www.omicsgroup.com/conferences/cancer-science-therapy-2013/>



Editors

Journal of Cancer Science & Therapy
Journal of Carcinogenesis & Mutagenesis and
Chemotherapy: Open Access

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2nd International Conference on Emerging Cell Therapies

August 12-14, 2013 Raleigh, USA

Theme: "Evolving Technology in Cell Therapy and its Future Perspectives"

OMICS Group invites all the participants across the globe to attend the 2nd International Conference on Emerging Cell Therapies to be held during August 12-14, 2013 at Raleigh, USA.

Cell Therapy-2013 is a remarkable event which brings together a unique and International mix of leading Universities and cell therapy institutions making the Congress a perfect platform to share experience and which paves a way to gather visionaries through the research talks and presentations and put forward many thought provoking strategies in emerging cell therapies.

Scientific Tracks

Track 1: Cell Therapy- Potential Applications

- Track 1-1 Molecular therapy
- Track 1-2 Ocular therapy
- Track 1-3 Neuro therapy for neurological diseases
- Track 1-4 Cardiac cell therapy
- Track 1-5 Celltherapies for renal failure
- Track 1-6 RNA therapeutics

Track 2: Stem Cell Therapies

- Track 2-1 Molecular basis of pluripotency
- Track 2-2 Bone marrow stem cells as therapy
- Track 2-3 Current views of the embryonic & neural stem cells
- Track 2-4 Stem cell therapy for genetic disorders
- Track 2-5 Targeting stem cells for therapeutic benefits
- Track 2-6 Transplantation technologies in stem cell therapy

Track 3: Cellular Therapies

- Track 3-1 Cell replacement therapy
- Track 3-2 Potential uses of defined cell populations
- Track 3-3 Reprogramming cell fate
- Track 3-4 Role of molecular markers in therapies
- Track 3-5 Target tissues and routes of delivery
- Track 3-6 Causes of regenerative failure

Track 4: Cancer Therapies

- Track 4-1 Stem cells & cancer treatments
- Track 4-2 Characteristics of cancer cells
- Track 4-3 Cell cycle and oncology
- Track 4-4 Modern approaches in molecular cancer therapeutics
- Track 4-5 Genomics & cancer drug resistance
- Track 4-6 Targeted cancer therapy
- Track 4-7 Genetically engineered cancer vaccines
- Track 4-8 Challenges & risks of cancer gene therapy

Track 5: Clinical Trials & Research in Cell Therapies

- Track 5-1 Principles of gene therapy & clinical gene therapy
- Track 5-2 Animal & human trials of engineered tissues
- Track 5-3 Emerging clinical aspects of stem cell therapy
- Track 5-4 Pharmacogenomics in cell therapy
- Track 5-5 Clinical trial design and analysis
- Track 5-6 Alternative lab models for cell therapy applications

Track 6: Nanotechnology in Cell Therapies

- Track 6-1 Nano methods to target cancer cells
- Track 6-2 Nano-microfluidics in cell therapy
- Track 6-3 Nano materials and nano engineering
- Track 6-4 Pros and cons of molecular manufacturing
- Track 6-5 Nanovaccines

Track 7: Bioengineering in Cell Therapeutics

- Track 7-1 Biomedical engineering
- Track 7-2 Developing new probes for tissue targeting
- Track 7-3 Therapeutic bioengineering
- Track 7-4 Cellular mechanobiology
- Track 7-5 Tissue engineering from own stem cells
- Track 7-6 Current understanding & challenges in bioprocessing
- Track 7-7 Bioengineering for medical diagnostics and imaging

Track 8: Immunotherapy

- Track 8-1 Cell based immunotherapy
- Track 8-2 Cancers of immune cells
- Track 8-3 New cell therapies for allergies
- Track 8-4 Cell based immunosuppression in transplantation
- Track 8-5 Tumour cells evade/defeat immune system

Track 9: Regulatory & Ethical Issues of Cell Therapy

- Track 9-1 Commercialisation strategy
- Track 9-2 Applications of cell therapy — from bench to bedside
- Track 9-3 Cell therapy in future medicine
- Track 9-4 Ethics involved in human stem cells
- Track 9-5 Logistics in preparing lab models for cell therapy applications
- Track 9-6 Manufacturing of cell therapy products and marketing guidelines
- Track 9-7 Innovative therapeutic technologies
- Track 9-8 FDA & EMA guidelines

Cell Therapy-2012 Report

International Conference on Emerging Cell Therapies, held during October 1-3, 2012 at DoubleTree by Hilton Chicago-North Shore, USA aimed to discuss the evolving "***Evolving Technology in Cell Therapy and its Future Perspectives***".

The zealous participation received from Editorial Board Members of OMICS Group Journals as well as from the researchers & scientists from various clinical research institutes, government organizations and companies related to Molecular Biology and Pharma helped in making this meeting a grand success.

Conference highlighted the following topics:

- Cell Therapy- Potential Applications
- Stem Cell Therapies
- Cellular Therapies
- Cancer Therapies
- Clinical Trials & Research in Cell Therapies
- Nanotechnology in Cell Therapies
- Bioengineering in Cell Therapeutics
- Regulatory & Ethical Issues of Cell Therapy
- Current Research & Future Perspectives on Cell Therapy

The grandeur of the event can be made out from the fact that more than 200 delegates representing 30 countries from different corners of the world became a part of it.

The conference was initiated with a series of invited lectures delivered by Honorable Guests and members of the keynote forum.

The list included Ivan N. Rich, CEO of HemoGenix Inc., USA, Robert W. Mays, Athersys Inc., USA; Kurt C Gunter, International Society for Cellular Therapy, Canada; Lee Buckler, Cell Therapy Group, USA and Tarek El-Bialy, University of Alberta, Canada, These presentations were very prolific to the scientific community and they lifted up solutions and illustrated a way on the theme "Evolving Technology in Cell Therapy and its Future Perspectives".

All accepted abstracts have been indexed in OMICS Group Cell Science & Therapy as a special issue.

With the huge optimistic response from scientific fraternity, industries, renowned personalities and editorial board members of OMICS Group across the world, we would like to announce the **2nd International Conference on Emerging Cell Therapies** during August 12-14, 2013 at North Carolina, USA.

Join your Peers @ Cell Therapy-2013

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Please contact: celltherapy2013@omicsgroup.info

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75th OMICS Group Conference

2nd World Congress on

Cell Science & Stem Cell Research

November 12-14, 2012 Hilton San Antonio Airport, USA

Keynote Forum





David T Harris

University of Arizona, USA

Old stem cells aren't what they used to be

The idea of stem cells as medical therapy has become almost commonplace. Millions of individuals have stored stem cells in biobanks for future use, and tens of thousands of have received stem cell transplants or infusions for regenerative medicine therapies. But often overlooked are everyday factors that may impair the utility of these stem cells, including stem cell age and donor health. There is increasing evidence that both factors can significantly impact the therapeutic potential of stem cells.

The hematopoietic stem cell is the best characterized of all stem cells. Weissman and others have shown significant functional changes with age, a finding confirmed upon analysis of cord blood transplant recipients. Similar findings have also been observed with neural stem cells. In terms of regenerative medicine, many are looking at mesenchymal stem cells (MSC). Numerous studies have indicated that MSCs isolated from older donors, as well as from patients with chronic disease conditions, are neither as prevalent (in terms of the number of cells in the sample) nor as potent as those isolated from younger, healthier donors. MSCs collected from older donors seem less able to differentiate into the different cell types needed for tissue engineering, slower to proliferate and expand to numbers of cells that would allow for multiple treatments, and more prone to dying during culture and use.

Evidence that MSC quality declines with donor age warrants concern for cell based therapies. The ability of older stem cells to respond to injury may be compromised and could contribute to inferior tissue repair. We have observed such results when analyzing the effects of stem cell age in a chronic wound model. In addition, Shen et al at the University of Texas-Arlington found that aging female mice transplanted with young MSCs had prolonged life span (by 15-20%). In contrast, older MSCs failed to prolong life span at all.

Thus, it seems that stem cells, like the rest of the cells in our bodies, also suffer from the ravages of time. Stem cells (of various types) collected from younger, healthier donors are more effective for transplantation and regenerative medicine than those collected from older individuals, which makes a strong case for the preservation of stem cells at the earliest possible time, and for the consideration of donor age when transplanting stem cells.

Biography

Harris is a graduate of Wake Forest University in Winston-Salem, North Carolina where he obtained Bachelor of Science degrees (cum laude) in Biology, Mathematics and Psychology in 1978. He earned a Masters of Medical Sciences (summa cum laude) from Bowman Gray Medical School in 1980 and his Doctorate in Microbiology and Immunology (magna cum laude) from Bowman Gray Medical School in 1982. From 1982-1985 Dr. Harris was a Post-doctorate Fellow at the Ludwig Institute for Cancer Research in Lausanne, Switzerland. In 1985 he joined the faculty at the University of North Carolina-Chapel Hill as a Research Assistant Professor in the Department of Medicine. In 1989 Dr. Harris joined the faculty at the University of Arizona in Tucson as an Associate Professor in the Department of Microbiology & Immunology. In 1996 Dr. Harris was promoted to Professor of Immunology. Dr. Harris established the first cord blood bank in the USA in 1992. He currently serves as Director of the Cord Blood Stem Cell Bank, is a member of the Arizona Cancer Center, a member of the Children's Research Center, and a member of the Arizona Arthritis Center. Dr. Harris's research interests include stem cells and regenerative medicine, cancer research/stem cell transplantation and gene therapy. He has published more than 300 articles (papers, book chapters and abstracts), given more than 100 talks on stem cells over the past 7 years, and has served as a consultant to the governments of China, Hong Kong, Singapore and South Korea. Dr. Harris has also founded 4 companies while at the University of Arizona: Cord Blood Registry, Inc.; Immune Regen Bio Sciences, Inc.; QuReGen, Inc. and AdiCyte
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Lee Buckler

Cell Therapy Group, USA

The state of the cell therapy industry: Metrics, trends, and analysis

This presentation will review the status cell therapy industry from a number of different perspectives including the most recent data regarding the revenue being generated from commercial cell therapy products globally, the late-stage trials currently in the pipeline (by company, indication, cell-type, etc), the overall pipeline as well as some of the notable business, clinical and sector trends

Bullet Points of Presentation Highlights – ATTENDEES WILL LEARN about:

- Commercial cell therapy products and their current revenue
- Late-stage cell therapy products in clinical development by company, indication, cell-type, etc
- Overall business, clinical and sector trends in the cell therapy industry

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Gene P. Siegal

University of Alabama at Birmingham, USA

A common sense approach to the recognition and diagnosing of tumor and tumor-like conditions of bone

Even experienced pathologists are sometimes intimidated by bone biopsies. Histological similarities between reactive lesions and neoplastic processes can cause concern that a bone tumor has been overlooked or fears of under-diagnosis when tumors are present. A common sense approach to the diagnosis of bone diseases using clinical history with correlative appropriate imaging data can help minimize these concerns. In this presentation I intend on surveying interesting diagnostic problems in orthopedic pathology from patients ranging from very young to very old age. Its objectives are to enable participants to construct logical frameworks for categorizing various bone disorders and to be more comfortable in the differential diagnosis of orthopedic diseases. It is most appropriate for practicing pathologists who only see such lesions rarely and for advanced trainees. I intend to begin with a brief introduction to orient participants to the philosophy of diagnosis in orthopedic pathology and how best to put the gamut of possible diagnoses into a logical framework based upon age at presentation, clinical history, imaging parameters and histology. This will be followed by use of the case presentation format to present unknown cases by age range with the most common diagnostic categories in each range

At the end of the session I would expect the participant to be able to:

Create a differential diagnosis of bone diseases/neoplasms based on age of patient

Create a differential diagnosis of bone diseases/neoplasms based on which bone as well as site in bone involved

Create a differential diagnosis of bone diseases/neoplasms based on imaging appearance

Recognize the most common bone lesions based on histologic criteria

Identify and differentiate the most common benign and malignant primary tumors of bone

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Oleksandr Kukharchuk

A.A. Shalimov AMS of Ukraine, Ukraine

Ukrainian experience of fetal stem cells transplantation for severe human diseases treatment: 13 years of clinical applications in legal field

In 1999 Ukrainian Parliament approved Law of Ukraine "About the Transplantation of Organs and Other Anatomical Structures to Human" that regulates the application of fetal stem cells in treatment of people in severe disease conditions. From those moment were conducted dozens of preclinical study and clinical trials on the efficacy of fetal stem cells transplantation in diseases of the heart and vascular, liver and kidney, endocrine and nervous system, blood diseases and pathology of immune system, skin, connective tissue and bones diseases, eye diseases and disturbance in hearing, pathology of stomach and intestine, pancreas and likewise treatment of reproductive system dysfunction.

This Law reviews introduction of fetal stem cells into body as transplantation, and the cells themselves as graft. Clinical trials conducted not by the schedule of implementation for pharmacological drugs, but by protocols of clinical trials of the organ transplantation i.e. first (introduction of cells to healthy people) and fourth (analysis of massive number of observation by their results of multicenter trials) phases of clinical trials are absent. As the result in short period of time developed and implemented in clinical practical the biotechnological methods of treatment in myocardial infarction (introduction of fetal stem cells in the zone of infarction and hibernating myocardium with the help of navigation system NOGA), pancreonecrosis (with the use of differentiating potential of mesenchymal stem cells from Wharton jelly to obliterate the open flow of pancreatic duct), diabetes mellitus I and II types, chronic ischemia of the lower limb, secretory and endocrine male forms of infertility, impotency, degenerative diseases of the nervous system, arterial hypertension, liver cirrhosis and many other diseases.

The indications and contra-indications (absolute and relative) developed were to application of stem cells for treatment of human diseases. Principles of deontology and medical ethics in regenerative medicine using fetal stem cells were determined. The period of treating diseases with the help of regenerative medicine, their doses, frequencies of introduction, possible complications and side effects were established. Passports of fetal stem cells providing their biological safety were developed. Scientists of Ukraine are open for collaboration and ready to share their experiences of development in regenerative medicine using fetal stem cells

Biography

Oleksander L. Kukharchuk, M.D., Research Director of EmProCell Clinical Research Pvt. Ltd., visit-professor MGM University of Health Sciences, Mumbai, Professor of Medicine.

Dr. Oleksander L. Kukharchuk was specialized as "medical practitioner" at Chernivtsi Government Medical Institute (Ukraine, Chernivtsi). C.M.Sc. (Candidate of Medical Science) defended on 1989 in the session of specialized academy council at Kaunaski Medical Institute (Lithuania). D.M.Sc (Doctor of Medical Science) defended 1996 in the session of specialized academic council at Odessa Governmental Medical University (Ukraine). Associate Professor obtained on 1996, Professor obtained on 2001. 1982-1991: Assistant, Department of Pathophysiology Chernivtsi Government Medical Institute (Ukraine, Chernivtsi). 1991-1994: Senior Tutor, Normal Physiology with course of Pathophysiology at Chernivtsi Government Medical Institute (Ukraine, Chernivtsi). Head of the Central Research Laboratory and Senior Tutor of the Pathophysiology Department at Chernivtsi Government Medical Institute (Ukraine, Chernivtsi). 1994-1995: Head of Central Research Laboratory, Associate Professor of the Normal Physiology Department at Bucovinian Government Medical Academy (Ukraine, Chernivtsi). 1995-1997: Director of the Centre for Scientific-Medical Investigation at Bucovinian Government Medical Academy (Ukraine, Chernivtsi). 1997-2002: Head of the Normal Physiology Department at Bucovinian Government Medical University (Ukraine, Chernivtsi). 2002-2005: Research Director of the Centre for Embryonic Cells "EmCell"(Ukraine, Kiev). 2005-2006: Research Director of the Coordination Centre for Transplantation of Organs, Tissues and Cells of the Ukraine Health Ministry (Ukraine, Kiev). 2006-2010: Director of Coordination Centre for Transplantation of Organs, Tissues and Cells of the Ukraine Health Ministry; Chief Specialist of the Ukraine Health Ministry by specialization "Transplantology"; Research Director of Institute of Cell Therapy (Ukraine, Kiev); Director EmProCell Clinical Research Pvt. Ltd. (India, Mumbai)

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Diana Anderson

University of Bradford, UK

Hopeful dads should stop smoking at least 3 months before conception

The relevance of preconceptional and prenatal toxicant exposures for genomic stability in offspring is difficult to analyze in human populations, because gestational exposures usually cannot be separated from preconceptional exposures. To analyze the roles of exposures during gestation and conception on genomic stability in the offspring, stability was assessed via the Comet assay and highly sensitive, semiautomated confocal laser scans of γ H2AX foci in cord, maternal, and paternal blood as well as spermatozoa from 39 families in Crete, Greece, and the United Kingdom. With use of multivariate linear regression analysis with backward selection, preconceptional paternal smoking (% tail DNA: $P>0.032$; γ H2AX foci: $P>0.018$) and gestational maternal (% tail DNA: $P>0.033$) smoking were found to statistically significantly predict DNA damage in the cord blood of F1 offspring. Maternal passive smoke exposure was not identified as a predictor of DNA damage in cord blood, indicating that the effect of paternal smoking may be transmitted via the spermatozoal genome. Taken together, these studies reveal a role for cigarette smoke in the induction of DNA alterations in human F1 offspring *via* exposures of the fetus *in utero* or the paternal germline. Moreover, the identification of transgenerational DNA alterations in the unexposed F1 offspring of smoking-exposed fathers supports the claim that cigarette smoke is a human germ cell mutagen.

Biography

Professor Diana Anderson currently holds the Established Chair of the Division of Biomedical Sciences at the University of Bradford, UK. She obtained her first degree in the University of Wales and second degrees in the Faculty of Medicine, University of Manchester. After tutoring at the University of Sydney, Australia, she became a research worker in the Department of Cancer Studies at the University of Leeds and at the Paterson Laboratories, Christie Hospital, Manchester. In 1974, she was appointed as Head of Mutagenesis Studies at ICI's Central Toxicology Laboratory. She joined BIBRA International in 1981 as Head of Genetic and Reproductive Toxicology and became Assistant Director and Group Forum Co-ordinator in 1987. In 1992, she became Senior Associate and Co-ordinator of External Affairs at BIBRA. She has attended various management courses. She has served on the editorial board of 8 international journals plus 2 on line journals, has over 400 publications, has edited/authored 8 books and guest-edited 9 special issues of 4 international journals. She is Series Editor of books in Current Toxicology for John Wiley and Sons and Issues in Toxicology for the Royal Society of Chemistry. She is an active Committee member and has been Vice-President of the Institute of Biology. She has successfully supervised 26 PhD students and is currently supervising other PhDs and has managed several post-doctoral positions. She has been external examiner for 29 PhDs and was External Examiner for the Dept. of Genetics, University of Wales, Swansea. She has been invited to speak at many international meetings and chair numerous symposia. She has helped establish new research laboratories in India and Korea under the auspices of the British Council and UNIDO. Funded by various international agencies, scientists from America, Australia, the Czech Republic, Italy, India, Iran, Korea, Poland, Serbia, Spain and Turkey have received training under her supervision. She has organised both national and international meetings and was/is a member of various national (e.g. MRC Advisory Board, Veterinary Products Committee) and was of international committees, including the European Union Scientific Committee for Animal Nutrition (SCAN). She recently won a prize as an Enterprise Fellow. She has hosted and participated in 56 meetings for WHO/IPCS. She is a consultant for many international organisations, such as the WHO, NATO, TWAS, UNIDO and the OECD.

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Scientific Tracks & Abstracts



Track 1 & 2

Day 1 November 12, 2012

1: Stem Cell Therapy

2: Cancer Cell Therapy

Session Chair

David T Harris

University of Arizona, USA

Session Co-Chair

Ratna K Vadlamudi

University of Texas Health Sciences Center, USA

Session Introduction

Title: Genetic determinants of breast cancer stem cells defined in mice

Richard G. Pestell, Kimmel Cancer Center, USA



Title: Autologous cord blood infusions for the treatment of pediatric stroke and cerebral palsy

David T. Harris, University of Arizona, USA



Title: Estrogen mediated epigenetic modifications: Role in breast cancer therapy

Ratna K Vadlamudi, University of Texas Health Sciences Center at San Antonio, USA



Title: KDM1 is a novel therapeutic target for the treatment of gliomas

Gangadhara Reddy Sareddy, University of Texas Health Science Center, USA



Title: Delivering cytokine gene therapy to prostate tumors using adipose-derived mesenchymal stem cells

Marxa L. Figueiredo, University of Texas, USA



Title: Targeting neural stem cells in situ to correct the neurological disorders in Atm-null mice

Paul K. Wong, UT MD Anderson Cancer Center, USA



Title: Extracellular mechanical forces ruling the stem-ness of human adult mesenchymal stem cells

Maryam Niapour, Adisave, Canada

Title: Glucose metabolism and vascular progenitors: A link to stem cell kinetics

Madhulika Dixit, Indian Institute of Technology, India



Title: Analysis of TLR4 signaling and PI3K/Akt pathway activation in renal cancer cell line: A clinical approach

Jatawa S K, Rajiv Gandhi Proudhyogiki Vishwavidyalatya, India



Title: The use of autologous mesenchymal stromal cells for treatment of neurodegenerative disorders - past achievements and future goals

Shimon Slavin, International Center for Cell Therapy & Cancer Immunotherapy (CTCI), Israel



Title: Role of cardiac Sca-1+ cells in cardiac homeostasis and injury

Morayma Reyes, University of Washington, USA



Title: Therapeutic potential of genetically modified stem cells: Role of arginine decarboxylase

Jong Eun Lee, Yonsei University, South Korea



Title: Transplantation of human iPS cells generate dopamine neurons and reduce the behaviour impairment in rat model of Parkinson's disease

Sabesan. M, Annamalai University, India



The role of bone marrow transplantation on oocyte-granulosa cell interaction and follicular development of cisplatin-induced ovarian failure in rat

Hendarto H, Komarhadi MF, Darmawanti E, Widjiati R, Suhatno and Rantam FA

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Introduction: Infertility is one of the consequence of chemotherapy in cancer patients due to its cytotoxic effect that induces acute follicular damage, abnormal folliculogenesis leading to ovarian failure. Two crucial growth factors in abnormal folliculogenesis namely Growth Differentiation Factor-9 (GDF-9) and Stem Cell Factor (SCF), which act on the oocytegranulosa cell interaction, will be disrupted and in turn it will affect follicular development. In this study we try to evaluate whether bone marrow transplantation (BMT) has a role on oocyte-granulosa cell interaction by analyzing GDF-9 and SCF expressions and also follicular development by analyzing primordial, primary, secondary and graafian follicles of experimental cisplatin-induced ovarian failure in rat.

Design: Animal laboratory experimental study

Materials and Methods: Forty eight rats (*rattus novergicus* strain wistar) were divided into three groups : control, cisplatin and cisplatin+BMT. Ovarian failure was induced by administration of intraperitoneal cisplatin dose 5 mg/kg body weight for 1 week. BMT 2×10^7 cell was injected through rat tail vein after cisplatin administration. Bone marrow was isolated from rat femur 6-12 weeks of age and characterized by CD44(+), CD45(-), CD105(+). Immunohistochemistry examinations for ovarian GDF-9, SCF and follicle development evaluation were performed after 2 weeks of BMT injection. All three groups datas were compared using the Anova test.

Results: The expressions of GDF-9 (15.91 ± 0.69) and SCF (20.26 ± 1.14) in cisplatin+BMT group were higher than those in cisplatin group: (5.33 ± 1.76) and (12.27 ± 2.88) and control group: (14.53 ± 1.42) and ($20.22 \pm 2,14$) ($p=0.000$).

In cisplatin+BMT group the number of primordial (5.31 ± 1.30), primary (4.37 ± 0.88), secondary (3.62 ± 0.71) and graafian follicles (2.75 ± 0.85) were higher than those in cisplatin group: (4.31 ± 1.19), (3.81 ± 1.22), (2.87 ± 0.95) and (0.37 ± 0.69); but were lower than those in control group (6.12 ± 1.20), (4.93 ± 1.61), (4.25 ± 0.77) and (5.81 ± 1.37) ($p=0.000$).

Positive PKH labeling was seen in cisplatin+BMT group, while negative result in cisplatin group.

Conclusion: On cisplatin-induced ovarian failure in rat, bone marrow transplantation may improve oocyte-granulosa cell interaction and follicular development. Further study is needed

Biography

Hendi Hendarto has completed his Ph.D in medical science (2007) from University of Airlangga Surabaya. He is supervisor of Graha Amerta IVF Clinic at Dr Soetomo Hospital and also Head of Department of Obstetric and Gynecology University of Airlangga Surabaya, Indonesia

