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Proceedings of

7th International Conference and Exhibition on

CELL AND GENE THERAPY

March 15-16, 2018
London, UK



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Scientific Program

Cell Therapy 2018

Day 1 March 15, 2018

08:30-09:00 Registrations

Hall- Wright

conferenceseries.com 09:00-09:25 **Opening Ceremony**

Keynote Forum

09:25-09:30 **Introduction**

09:30-10:10 **Title: Stem cell therapy: bone regeneration for critical size bone defects**
Shuying Yang, University of Pennsylvania, USA

10:10-10:50 **Title: Assessing cytokine signatures and cytolytic potential for T cells and NK cells used for immune therapy**
Paul von Hoegen, CTL Europe GmbH, Germany

Group Photo@ 10:50-11:00

Networking and Refreshments Break 11:00-11:15 @ Breakout Area

11:15-11:55 **Title: Photobiomodulation affects mitochondria morphogenesis and function**
Katarina Stroffekova, Pavol Jozef Šafárik University, Slovakia

11:55-12:35 **Title: In vitro expanded human adipose-derived stem cells as a model for drug testing and tissue engineering tool**
Michał Pikuła, Medical University of Gdansk, Poland

Lunch Break 12:35-13:15 @ RBG

Sessions: Cell Therapy | Gene Therapy | Cell Culture and Bioprocessing | Clinical Trials on Cell & Gene Therapy | Cell Science and Stem Cell Research | Tissue Science & Regenerative Medicine

Session Chair: Shalini Gupta, King George's Medical University, India

Session Introduction

13:15-13:45 **Title: ZSCAN10 transcription factor regulates glutathione pathway multimodally**
Maria Skamagki, Memorial Sloan Kettering Cancer Center, USA

13:45-14:15 **Title : Ethical issues in cell and gene therapy using CRISPR/Cas9 system**
Yuan-Chuan Chen, National Applied Research Laboratories, Taiwan

14:15-14:45 **Title : Association between NAT- 1 and NAT- 2 and risk of oral pre cancer and cancer in North India**
Shalini Gupta, King George's Medical University, India

14:45-15:15 **Title : p63 silencing overcomes barriers to human cardiac cellular reprogramming**
Todd K Rosengart, Baylor College of Medicine, USA

15:15-15:45 **Title: Graphene based nanomaterials for cancer therapy**
A. Yilmazer, AnkaraUniversity, Turkey

15:45-16:15 **Title: Genetically encoded tools applying in phenotyping and toxicity test**
Yu-Fen Chang, LumiSTAR biotechnology, Taiwan

Networking and Refreshments Break 16:15-16:30 @ Breakout Area

Panel Discussion

Day 2 March 16, 2018

Hall- Wright

Keynote Forum

10:00-10:40 **Title: The Regentime® technique in stem cell therapy: a gate to immortality**
Nassim Abi Chahine, ACE Cells Lab Ltd, UK

10:40-11:20 **Title: Novel gene therapy approaches for the treatment of diabetic cardiomyopathy**
Paolo Madeddu, University of Bristol, UK

Networking and Refreshments Break 11:20-11:35 @ Breakout Area

Sessions: Gene and Cell Therapy for Rare & Common Diseases | Cell Therapy of Cardiovascular Disorders | Nano Therapy | Viral Gene Therapy | Stem Cell Therapies

Session Chair: Shalini Gupta, King George's Medical University, India

Session Introduction

11:35-12:05	**Title: Determinates of cell therapy efficacy for tissue and organ repair** **Williams J K**, Wake Forest School of Medicine, USA
12:05-12:35	**Title: Plant virus nanoparticles: new applications for developing countries** **Kathleen Hefferon**, Cornell University, USA
12:35-13:05	**Title: Novel anti-cancer binary system activated by bacteriophage HK022 integrase** **Amer Elias**, Tel-Aviv University, Israel

Lunch Break 13:05-13:50 @ RBG

13:50-14:20	**Title: The effectivity of novel mesenchymal stem cell therapy in graft-versus-host disease** **E Molnar**, Hungarian National Blood Transfusion Service, Hungary
14:20-14:50	**Title: The most common genetic disease in Hail and diseases related to consanguinity** **Kholoud Mokhtar Al-Azmi**, University of Hail, KSA
14:50-15:20	**Title: SenezRedTM vital fluorescence probe for detecting mesenchymal stem cell senescence** **Joshur Ang**, Agency for Science, Technology and Research (A*STAR), Singapore
15:20-15:50	**Title: Evolution of recombinant adeno-associated viral vectors for application in ocular gene therapy** **Anand David**, University of Bern, Switzerland

Poster Presentations 15:50-16:20 @ Foyer

Poster Judge : Todd K. Rosengart, Baylor College of Medicine, USA

CGT-01	**Title: Production of therapeutically relevant lentiviral vectors for clinical studies** **Johann-Christoph Dettmann**, Miltenyi Biotec GmbH, Germany
CGT-02	**Title: The effect of Anethum on Dyrk1B gene expression in metabolic syndrome and coronary artery disease** **Maryam fathi**, Arsanjan university, Iran
CGT-03	**Title: Efficient method of cancer cells therapy repairing quasi-stationary pathologic State of an organism into stationary normal state of an organism** **M. Ponizovskiy**, Kiev regional Hospital, Ukraine
CGT-04	**Title: The effects of Zataria multiflora extract on Dyrk1B gene expression in metabolic syndrome and coronary artery disease** **Reza Naderipour**, Arsanjan university, Iran
CGT-05	**Title: A scalable microfluidics platform for the development of nanoparticles** **Richard Broadhead**, Precision NanoSystems Inc., Canada

Networking and Refreshments Break 16:20-16:35 @ Breakout Area

Panel Discussion

Awards & Closing Ceremony 16:35-17:50

Bookmark your dates

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March 21-23, 2019 Rome Italy

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Advances in Dairy Research	2329-888X
Agrotechnology	2168-9881
Aquaculture Research & Development	2155-9546
Arabidopsis C. Elegans and Zebrafish	-
Biofertilizers & Biopesticides	2155-6202
Crop Research	2454-1761
Experimental Food Chemistry	-
Fisheries & Livestock Production	2332-2608
Fisheries and Aquaculture Journal	2150-3508
Fisheriessciences	1307-234X
Food & Industrial Microbiology	-
Food & Nutritional Disorders	2324-9323
Food Processing & Technology	2157-7110
Food: Microbiology, Safety & Hygiene	-
Forest Research	2168-9776
Horticulture	2376-0354
International Biodiversity, Bioprospecting and Development	2376-0214
Marine Science: Research & Development	2155-9910
Medicinal & Aromatic Plants	2167-0412
Nutrition & Food Sciences	2155-9600
Plant Pathology & Microbiology	2157-7471
Poultry, Fisheries & Wildlife Sciences	2375-446X
Probiotics & Health	2329-8901
Research & Reviews: Journal of Agriculture and Allied Sciences	2347-226X
Research & Reviews: Journal of Food and Dairy Technology	2321-6204
Rice Research	2375-4338
Traditional Medicine and Clinical Naturopathy (Homeopathy & Ayurvedic Medicine-2167-1206)	-

Business & Management

Accounting & Marketing	2168-9601
Arabian Journal of Business and Management Review	2223-5833
Business & Financial Affairs	2167-0234
Business & Hotel Management	2324-9129
Business and Economics Journal	2151-6219
Defense Studies & Resource Management	2324-9314
Entrepreneurship & Organization Management	2169-026X
Global Economics	2375-4389
Hotel & Business Management	2169-0286
International Journal of Accounting Research	-
International Journal of Economics and Management Science	2162-6359
Internet Banking & Commerce	1204-5357
Review of Public Administration and Management	2315-7844
Stock & Forex Trading	2168-9458
Tourism & Hospitality	2167-0269

Chemical Engineering

Advanced Chemical Engineering	2090-4568
Bioprocessing & Biotechniques	2155-9821
Chemical Engineering & Process Technology	2157-7048
Thermodynamics & Catalysis	2157-7544

Chemistry

Analytical & Bioanalytical Techniques	2155-9872
Analytical & Electrochemical Insights	-
Bioenergetics: Open Access	2167-7662
Chemical Informatics	-
Chemical Sciences Journal	2150-3494
Chromatography & Separation Techniques	2157-7064
Clinical & Medical Biochemistry: Open Access	-
Clinical Chemistry: Open Access	-
Environmental & Analytical Toxicology	2161-0525
Environmental Analytical Chemistry	-
Glycobiology	2168-958X
Herbal Medicine: Open Access	-
Immuno Chemistry: Open Access	-
Industrial Chemistry: Open Access	-
International Journal of Applied Biology and Pharmaceutical Technology	0976-4550
International Journal of Drug Development & Research	0975-9344
Mass Spectrometry: Open Access	-
Medicinal Chemistry	2161-0444
Modern Chemistry & Applications	2329-6798
Natural Products Chemistry & Research Journal	2329-6836
Neuro Chemistry: Open Access	-
Organic & Inorganic Chemistry	-
Organic Chemistry: Current Research	2161-0401
Pharmaceutical Analytical Chemistry: Open Access	-
Physical Chemistry & Biophysics	2161-0398
RROIJ: Medicinal Chemistry	-
Structural Chemsitry & Crystallography Communication	-
Trends in Green Chemistry	-
Vitamins & Minerals	2376-1318

Clinical

Ageing Science	2329-8847
Ancient Diseases & Preventive Remedies	2329-8731
Anesthesia & Clinical Research	2155-6148
Annals of Clinical and Laboratory Research	2386-5180
Arrhythmia: Open Access	-
Atherosclerosis: Open Access	-
Cell Biology: Research & Therapy	2324-9293
Cellular & Molecular Pathology	-
Clinical & Experimental Cardiology	2155-9880
Clinical & Experimental Dermatology Research	2155-9554
Clinical & Experimental Nephrology	-
Clinical & Experimental Oncology	2324-9110
Clinical & Experimental Ophthalmology	2155-9570
Clinical & Experimental Orthopaedics	-
Clinical & Experimental Pathology	2161-0681
Clinical & Molecular Endocrinology	-
Clinical and Experimental Psychology	-
Clinical and Experimental Transplantation	-
Clinical Case Reports	2165-7920
Clinical Depression	-
Clinical Dermatology Research Journal	-
Clinical Diabetes & Practice	-
Clinical Nutrition & Dietetics	-
Clinical Oncology and Practice	-
Clinical Pediatrics	-
Clinical Pediatrics & Dermatology	-
Clinical Psychiatry	-
Clinical Research & Bioethics	2155-9627
Clinical Research On Foot & Ankle	2329-910X
Clinical Respiratory: Open Access	-
Clinical Toxicology	2161-0495
Clinical Trials	2167-0870
Clinics in Mother and Child Health	2090-7214
Cosmetology & Orofacial Surgery	-
Cosmetology & Trichology	-
Dermatitis	-
Diabetes Case Reports	-
Dialysis and Clinical Practice	-
Drug Intoxication & Detoxification : Novel Approaches	2327-4557
Dual Diagnosis: Open Access	-
Eye & Cataract Refractive Surgery	-
Forensic Toxicology & Pharmacology	2325-9841
Glaucoma: Open Access	-
HIV & Retro Virus	-
Immunooncology	-
Insights in Pediatric Cardiology	-

Intensive and Critical Care	-
International Journal of Anesthesiology & Pain Medicine	-
International Journal of Cardiovascular Research	2324-8602
International Journal of Digestive Diseases	-
International Journal of Ophthalmic Pathology	2324-8599
Interventional Cardiology: Open Access	-
JBR Journal of Clinical Diagnosis and Research	2376-0311
Optometry: Open Access	-
Phonetics & Audiology	-
Speech Pathology & Therapy	-
Stem Cell Research & Therapy	2157-7633
Toxicology: Open Access	-
Vasculitis	-

Earth & Environmental Sciences

Advances in Recycling	-
Astrobiology & Outreach	2332-2519
Biodiversity & Endangered Species	2332-2543
Biodiversity Management & Forestry	2327-4417
Bioremediation & Biodegradation	2155-6199
Biosafety	2167-0331
Climatology & Weather Forecasting	2332-2594
Coastal Zone Management	-
Earth Science & Climatic Change	2157-7617
Ecosystem & Ecography	2157-7625
Entomology, Ornithology & Herpetology	2161-0983
Expert Opinion On Environmental Biology	2325-9655
Fundamentals of Renewable Energy and Applications	2090-4541
Geography & Natural Disasters	2167-0587
Geoinformatics & Geostatistics: An Overview	2327-4581
Geology & Geosciences	2329-6577
Geophysics & Remote Sensing	2169-0049
Hydrogeology & Hydrologic Engineering	2325-9647
Hydrology: Current Research	2157-7587
Industrial Pollution Control	-
Innovative Energy Policies	2090-5009
International Journal of Evolution	2324-8548
International Journal of Waste Resources	2252-5211
Marine Biology & Oceanography	2324-8661
Oceanography: Open Access	2332-2632
Oil & Gas: Open Access	-
Petroleum & Environmental Engineering	2157-7463
Plant Physiology & Pathology	2329-955X
Pollution Effects & Control	2375-4397
Research & Reviews: Journal of Ecology and Environmental Sciences	-

EEE

Electrical & Electronic Systems	2332-0796
Electrical Engineering & Electronic Technology	2325-9833

Engineering

Advances in Automobile Engineering	2167-7670
Advances in Robotics & Automation	2168-9695
Aeronautics & Aerospace Engineering	2168-9792
Applied Bioinformatics & Computational Biology	2329-9533
Applied Mechanical Engineering	2168-9873
Architectural Engineering Technology	2168-9717
Automatic Control of Physiological State and Function	2090-5092
Biochips & Tissue Chips	2153-0777
Bioengineering & Biomedical Science	2155-9538
Biomusical Engineering	2090-2719
Biosensors & Bioelectronics	2155-6210
Biosensors Journal	2090-4967
Civil & Environmental Engineering	2165-784X
Computer Engineering & Information Technology	2324-9307
Computer Engineering and Information Technology	2324-9307
Defense Management	2167-0374
Fashion Technology & Textile Engineering	2329-9568
Global Journal of Technology and Optimization	2229-8711
Global Research in Computer Science	2229-371X
Industrial Engineering & Management	2169-0316
Information Technology & Software Engineering	2165-7866
International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	2278-8875
International Journal of Advancements in Technology	0976-4860
International Journal of Biomedical Data Mining	2090-4924
International Journal of Innovative Research in Computer and Communication Engineering	2278-1021
International Journal of Innovative Research in Science, Engineering and Technology	2319-8753
International Journal of Sensor Networks and Data Communications	2090-4886
International Journal of Swarm Intelligence and Evolutionary Computation	2090-4908
Irrigation & Drainage Systems Engineering	2168-9768
Lasers, Optics & Photonics	-
Lovotics	2090-9888
Membrane Science & Technology	2155-9589
Molecular Imaging & Dynamics	2155-9937
Nuclear Energy Science & Power Generation Technology	2325-9809
Research & Reviews: Journal of Engineering and Technology	2319-9873
Steel Structures & Construction	-
Telecommunications System & Management	2167-0919
Textile Science & Engineering	2165-8064

General Science

Computer Science & Systems Biology Journal	0974-7230
Ergonomics	2165-7556
Research and Development	-
International Journal of Advance Innovations, Thoughts & Ideas	2277-1891
Metrology	-
Research & Reviews: Journal of Botanical Sciences	2320-0189
Research & Reviews: Journal of Chemistry	2319-9849
Tomography	-

Genetics & Molecular Biology

Advanced Techniques in Biology & Medicine	2379-1764
Advancements in Genetic Engineering	2169-0111
Advances in Molecular Diagnostics	-
Biochemistry & Analytical Biochemistry	2161-1009
Biochemistry & Molecular Biology Journal	-
Biochemistry & Physiology	2329-9029
Biological Systems	2329-6577
Biotechnology & Biomaterials	2155-952X
Bipolar Disorder: Open Access	-
Cell & Developmental Biology	2168-9296
Cell Science & Therapy	2157-7013
Cell Signaling	-
Cellular & Molecular Medicine: Open Access	-
Chemical Biology & Therapeutics	-
Clinical Epigenetics	-
Cloning & Transgenesis	2168-9849
Current Synthetic and Systems Biology	2332-0737
Cytology & Histology	2157-7099
Down Syndrome & Chromosome Abnormalities	-
Electronic Journal of Biology	-
Enzyme Engineering	2329-6674
Fertilization: in Vitro	2375-4508
Fungal Genomics & Biology	2165-8056
Gene Technology	2329-6682
Genetic Syndromes & Gene Therapy	2157-7412
Hereditary Genetics: Current Research	2161-1041
Human Genetics & Embryology	2161-0436
Insights in Cell Science	-
Insights in Stem Cells	-
International Journal of Genomic Medicine	2332-0672
Metabolomics: Open Access	2153-0769
Metabonomics & Metabolites	2325-9736
Microbial & Biochemical Technology	1948-5948
Microbial Methods & Assays Open Access	-
Molecular and Genetic Medicine	1747-0862
Molecular Biology	2168-9547
Molecular Biomarkers & Diagnosis	2155-9929
Molecular Cloning & Genetic Recombination	2325-9787
Nanomedicine & Biotherapeutic Discovery	2155-983X
Next Generation: Sequencing & Applications	-
Phylogenetics & Evolutionary Biology	2329-9002

Physiobiochemical Metabolism	2324-8793
Plant Biochemistry & Physiology	2329-9029
Proteomics & Enzymology	-
Single Cell Biology	2168-9431
Tissue Science & Engineering	2157-7552
Transcriptomics: Open Access	2329-8936
Translational Biomedicine	2172-0479

Health Care

Diversity and Equality and Health and Care	2049-5471
Health Care: Current Reviews	2375-4273
Health Science Journal	1791-809X
Pregnancy & Child Health	2376-127X
Primary Health Care	2167-1079
Quality in Primary Care	1479-1072
Tropical Diseases & Public Health	2329-891X
Women'S Health, Issues & Care	2325-9795

Immunology

Advances in Antibiotics & Antibodies	-
Allergy & Therapy	2155-6121
Autoimmune Diseases: Open Access	-
Clinical & Cellular Immunology	2155-9899
Cytokine Biology	-
Immunobiology	-
Immunogenetics: Open Access	-
Immunome Research	1745-7580
Immunotherapy: Open Access	-
Infectious Diseases & Immunological Techniques	2325-9752
Inflammatory Bowel Diseases & Disorders	-
Innate Immunity & Immunological Disorders	-
Interdisciplinary Journal of Microinflammation	-
Lupus: Open Access	-
Molecular Immunology	-
Osteoarthritis	-
Reproductive Immunology	-
Rheumatology: Current Research	2161-1149
Sarcoidosis	-
Vaccines & Vaccination	2157-7560

Informatics

Data Mining in Genomics & Proteomics	2153-0602
Glycomics and Lipidomics	2153-0637
Health & Medical Informatics	2157-7420
Proteomics & Bioinformatics	0974-276X
Theoretical and Computational Science	2376-130X

Materials Science

Bioceramics Developments and Applications	2090-5025
Material Sciences & Engineering	2169-0022
Nano Research & Applications	-
Nanomaterials & Molecular Nanotechnology	2324-8777
Nanomedicine & Nanotechnology	2157-7439
Plastic & Polymer Sciences	-
Powder Metallurgy & Mining	2168-9806
Research & Reviews: Journal of Material Sciences	2321-6212

Mathematics

Applied & Computational Mathematics	2168-9679
Biometrics & Biostatistics	2155-6180
Generalized Lie Theory and Applications	1736-4337
Physical Mathematics	2090-0902
Research & Reviews: Journal of Statistics and Mathematical Sciences	-

Medical

Abnormal and Behavioural Psychology	-
Acta Psychopathologica	-
Acta Rheumatologica	-
Addictive Behaviors , Therapy & Rehabilitation	2324-9005
Adenocarcinoma	-
Advances in Cancer Prevention	-
Advances in Genetic Engineering & Biotechnology	-
Advances in Weight Loss Management & Medical Devices	-
Aerobics & Fitness	-
Aesthetic & Reconstructive Surgery	-
Aids & Clinical Research	2155-6113
Air and Water Borne Diseases	2167-7719
Alternative & Integrative Medicine	2327-5162
Analgesia & Resuscitation : Current Research	2324-903X
Anaplastology	2161-1173
Anatomy & Physiology: Current Research	2161-0940
Andrology & Gynecology: Current Research	2327-4360
Andrology	2167-0250
Angiology: Open Access	2329-9495
Annals of Behavioural Science	-
Applied and Rehabilitation Psychology: Open Access	-
Archives in Cancer Research	2254-6081
Archives of Medicine	1989-5216
Archives of Surgical Oncology	-
Archivos De Medicina	1698-9465
Arthritis	2167-7921
Asthma and Bronchitis	-
Athletic Enhancement	2324-9080
Autacoids & Hormones	2161-0479
Biology and Medicine	0974-8369
Biomedical Engineering & Medical Devices	-
Biomedical Sciences	2254-609X
Bioterrorism & Biodefense	2157-2526
Blood	-
Blood & Lymph	2165-7831
Blood Disorders & Transfusion	2155-9864
Blood Pressure: Open Access	-
Bone Marrow Research	2329-8820
Bone Reports & Recommendations	-
Brain Tumors	-
Breast Cancer: Current Research	-
Cancer Biomarkers	-
Cancer Clinical Trials	-
Cancer Diagnosis	-
Cancer Medicine & Anticancer Drugs	-
Cancer Science & Therapy	1948-5956
Cancer Surgery	-
Carcinogenesis & Mutagenesis	2157-2518
Cardiovascular Diseases & Diagnosis	2329-9517
Cardiovascular Pathology: Open Access	-
Celiac Disease: Open Access	-
Cervical Cancer: Open Access	-
Chemotherapy	2167-7700
Chest Diseases	-
Childhood & Developmental Disorders	-
Childhood Obesity	-
Chronic Obstructive Pulmonary Disease: Open Access	-
Colorectal Cancer: Open Access	-
Communication Disorders, Deaf Studies & Hearing Aids	2375-4427
Community Medicine & Health Education	2161-0711
Complex Diseases and Treatment	-
Contraceptive Studies	-
Critical Care Obstetrics & Gynecology	-
Current Trends in Gynecologic Oncology	-
Dental Health: Current Research	-
Dental Implants and Dentures: Open Access	-
Dentistry	2161-1122
Depression and Anxiety	2167-1044
Dermatology Case Reports	-
Diabetes & Metabolism	2155-6156
Diabetes Medication and Care	-
Diabetic Complications and Medicine	-
Drug Abuse	-
Emergency Medicine	2165-7548
Endocrinology & Diabetes Research	-
Endocrinology & Metabolic Syndrome	2161-1017
Epidemiology: Open Access	2161-1165
Evidence based Medicine and Practice	-
Family Medicine & Medical Science Research	2327-4972
Forensic Biomechanics	2090-2697
Forensic Medicine	-

Forensic Nursing: Open Access	-
Forensic Odontology	-
Forensic Psychology	-
Forensic Research	2157-7145
Gastrointestinal & Digestive System	2161-069x
Gastrointestinal Cancer and Stromal Tumors	-
General Medicine	2327-5146
General Practice	2329-9126
Genetic Disorders & Genetic Reports	2327-5790
Genital System & Disorders	2325-9728
Geriatric Psychiatry	-
Gerontology & Geriatric Research	2167-7182
Gynecology & Obstetrics	2161-0932
Gynecology & Obstetrics- Case Report	-
Haematology & Thromboembolic Diseases	2329-8790
Hair: Therapy & Transplantation	2167-0951
Head and Neck Cancer Research	-
Health & Medical Economics	-
Health Care Communications	-
Health Economics & Outcome Research: Open Access	-
Health Education Research & Development (Biosafety & Health Education: Open Access-2332-0893)	-
Health Systems and Policy Research	2254-9137
Heart Transplant and Surgery	-
Heavy Metal & Chelation Therapy	-
Hepatology and Gastrointestinal Disorders	-
Hospital & Medical Management	-
Hypertension- Open Access	2167-1095
Hypo & Hyperglycemia	2327-4700
Imaging and Interventional Radiology	-
Medical Implants & Surgery	-
Informatics and Data Mining	-
Insights in Biomedicine	-
Insights in Medical Physics	-
Integrative Oncology	2329-6771
Internal Medicine	2165-8048
International Journal of Clinical & Medical Imaging	2376-0249
International Journal of Collaborative Research on Internal Medicine & Public Health	-
International Journal of Emergency Mental Health and Human Resilience	1522-4821
International Journal of Mental Health & Psychiatry	2327-4654
International Journal of Pediatric Neurosciences	-
International Journal of Physical Medicine & Rehabilitation	2329-9096
International Journal of Public Health and Safety	-
International Journal of School and Cognitive Psychology	-
Interventional Pediatrics	-
Invasive Cardiology Future Medicine	-
JBR Journal of Interdisciplinary Medicine and Dental Sciences	2376-032X
Kidney	-
Kidney Transplant	-
La Prensa Medica	0032-745X
Laser Surgery and Therapy	-
Leukemia	2329-6917
Liposuction	-
Liver	2167-0889
Liver: Disease & Transplantation	2325-9612
Lung Cancer Diagnosis & Treatment	-
Lung Diseases & Treatment	-
Malaria Control & Elimination	2090-2778
Maternal and Pediatric Nutrition	-
Medical & Surgical Pathology	-
Medical & Surgical Urology	2168-9857
Medical and Clinical Reviews	-
Medical Case Reports	-
Medical Diagnostic Methods	2168-9784
Medical Toxicology and Clinical Forensic Medicine	-
Melanoma and Skin Diseases	-
Mental Health in Family Medicine	2327-4972
Mental Illness and Treatment	-
Metabolic Syndrome	2167-0943
Molecular & Medical Histology	-
Molecular Medicine & Therapeutics	2324-8769
Neonatal Biology	2167-0897
Neonatal Studies	-
Neonatal Medicine	-
Neoplasm	-
Nephrology & Therapeutics	2161-0959
Neurobiotechnology	-
Neuroinfectious Diseases	2314-7326
Neurooncology: Open Access	-
Neurosurgery & Cardiac Surgery	-
Novel Physiotherapies	2165-7025
Nuclear Medicine & Radiation Therapy	2155-9619
Nutritional Disorders & Therapy	2161-0509
Obesity & Eating Disorders	-
Obesity & Weight Loss Therapy	2165-7904
Occupational Medicine Health Affairs	2329-6879
Omics Journal of Radiology	2167-7964
Oncology & Cancer Case Reports	-
Oncology Translational Research	-
Oral Health and Dental Management	2247-2452
Oral Health Case Reports	-
Oral Hygiene & Health	2332-0702
Orthodontics & Endodontics	-
Orthopedic & Muscular System: Current Research	2161-0533
Orthopedic Oncology	-
Osteoporosis & Physical Activity	2329-9509
Otolaryngology:Open Access	2161-119X
Otology & Rhinology	2324-8785
Pain & Relief	2167-0846
Pain Management & Medicine	-
Palliative Care & Medicine	2165-7386
Pancreatic Disorders & Therapy	2165-7092
Pediatric Care	-
Pediatric Dental Care	-
Pediatric Emergency Care and Medicine- Open Access	-
Pediatric Nephrology Practice	-
Pediatric Neurology and Medicine	-
Pediatric Nursing: Open Access	-
Pediatric Oncology: Open Access	-
Pediatric Physiotherapy	-
Pediatric Psychology and Psychiatry	-
Pediatrics & Therapeutics	2161-0665
Periodontics and Prosthodontics: Open Access	-
Pigmentary Disorders	2376-0427
Prevention Infection Control: Open Access	-
Preventive Medicine	-
Primary & Acquired Immunodeficiency Research	2324-853X
Prostate Cancer	-
Psoriasis & Rosacea Open Access	-
Psychiatry	2378-5756
Psychological Abnormalities in Children	2329-9525
Psychology & Psychotherapy	2161-0487
Pulmonary & Respiratory Medicine	2161-105x
Rare Disorders & Diseases	-
Regenerative Medicine	2325-9620
Reproductive Endocrinology & Infertility	-
Reproductive System & Sexual Disorders	2161-038x
Research & Reviews: Journal of Dental Sciences	2320-7949
Research & Reviews: Journal of Medical and Health Sciences	2319-9865
Research Journal of Biology	2322-0066
Sleep Disorders & Therapy	2167-0277
Sleep Disorders : Treatment & Care	2325-9639
Spine	2165-7939
Spine & Neurosurgery	2325-9701
Spine Research	-
Sports Medicine & Doping Studies	2161-0673
Sports Nutrition and Therapy	-
Steroids & Hormonal Science	2157-7536
Stroke Research & Therapy	-
Journal of Surgery [Jurnalul de Chirurgie]	1584-9341
Surgery: Current Research	2161-1076
The Headache Journal	-
The International Journal of Apitherapy	-
The Pancreas	1590-8577
Therapeutic Care and Physical Rehabilitation	-

Thrombosis and Circulation	-
Thyroid Disorders & Therapy	2167-7948
Translational Medicine	2161-1025
Transplant Reports : Open Access	-
Transplantation Technologies & Research	2161-0991
Trauma & Acute Care	-
Trauma & Treatment	2167-1222
Traumatic Stress Disorders & Treatment	2324-8947
Tropical Medicine & Surgery	2329-9088
Tumor Diagnostics and Reports	-
Universal Surgery	2254-6758
Vascular Medicine & Surgery	2329-6925
Vitiligo & Dermatomyositis	-
Voice Medicine & Surgery	-
Women's Health Care	2167-0420
Wound Medicine and Tissue Repair	-
Yoga & Physical Therapy	2157-7595

Microbiology

Advances in Influenza Research	-
Antimicrobial Agents	-
Antivirals & Antiretrovirals	1948-5964
Applied Microbiology: Open Access	-
Archives of Clinical Microbiology	1989-8436
Bacteriology and Parasitology	2155-9597
Clinical Infectious Diseases & Practice	-
Clinical Microbiology: Open Access	2327-5073
Colitis & Diverticulitis	-
Emerging Infectious Diseases	-
Fermentation Technology	2167-7972
Fibromyalgia: Open Access	-
Forensic Pathology	-
Hepatitis	-
Human Papillomavirus	-
Infectious Diseases and Diagnosis	-
Infectious Diseases and Therapy	2332-0877
Medical Microbiology & Diagnosis	2161-0703
Medical Mycology: Open Access	-
Meningitis	-
Mycobacterial Diseases	2161-1068
Pediatric Infectious Diseases: Open Access	-
Research & Reviews: Journal of Microbiology and Biotechnology	2320-3528
Research & Reviews: Journal of Inflammation	-
Research & Reviews: Journal of Pathology & Epidemiology	-
Virology & Mycology	2161-0517

Neuroscience

Addiction Research & Therapy	2155-6105
Alzheimers Disease & Parkinsonism	2161-0460
Autism-Open Access	2165-7890
Brain Disorders & Therapy	2168-975X
Child & Adolescent Behavior	2375-4494
Clinical & Experimental Neuroimmunology	-
Dementia & Mental Health	-
Epilepsy Journal	-
Insights in Clinical Neurology	-
International Journal of Neurorehabilitation	2376-0281
Multiple Sclerosis	2376-0389
Neurological Disorders	2329-6895
Neurology & Neurophysiology	2155-9562
Neurology and Neuroscience	2171-6625
Neuropsychiatry	-
Neuroscience & Clinical Research	-
Schizophrenia Journal	-

Health Care & Nursing

Advanced Practices in Nursing	-
Community & Public Health Nursing	-
Nursing & Care	2167-1168
Nursing & Clinical Research	-
Patient Care	-
Perioperative & Critical Intensive Care Nursing	-
Research & Reviews: Journal of Nursing and Health Sciences	-

Pharmaceutical Sciences

Advances in Pharmacoepidemiology & Drug Safety	2167-1052
Alcoholism & Drug Dependence	2329-6488
Bioanalysis & Biomedicine	1948-593X
Biochemistry & Pharmacology: Open Access Journal	2167-0501
Bioequivalence & Bioavailability	0975-0851
Biomarkers in Drug Development	2327-4441
Biomarkers Journal	-
Biomolecular Research & Therapeutics	2167-7956
Cardiovascular Pharmacology: Open Access	2329-6607
Clinical & Experimental Pharmacology	2161-1459
Clinical Pharmacology and Biopharmaceutics	2167-065X
Current Trends in Nutraceuticals	-
Developing Drugs	2329-6631
Diagnostic Techniques & Biomedical Analysis	-
Drug Designing: Open Access	2169-0138
Drug Metabolism & Toxicology	2157-7609
in Silico & in Vitro Pharmacology	-
Molecular Enzymology and Drug Targets	-
Molecular Pharmaceutics & Organic Process Research	2329-9053
Pharmaceutica Analytica Acta	2153-2435
Pharmaceutical Care & Health Systems	2376-0419
Pharmaceutical Microbiology	-
Pharmaceutical Regulatory Affairs: Open Access	2167-7689
Pharmaceutical Sciences & Emerging Drugs	-
Pharmaceutics & Drug Delivery Research	2325-9604
Pharmacoeconomics: Open Access	-
Pharmacogenomics and Pharmacoproteomics	2153-0645
Pharmacognosy & Natural Products	-
Pharmacokinetics & Experimental Therapeutics	-
Pharmacological Reports	-
Pharmacovigilance	2329-6887
Research & Reviews: Journal of Hospital and Clinical Pharmacy	-
Research & Reviews: Journal of Pharmaceutical Analysis	2320-0812
Research & Reviews: Journal of Pharmaceutical Quality Assurance	-
Research & Reviews: Journal of Pharmaceutics and Nanotechnology	2347-7857
Research & Reviews: Journal of Pharmacognosy and Phytochemistry	2321-6182
Research & Reviews: Journal of Pharmacy and Pharmaceutical Sciences	2320-1215
Virology & Antiviral Research	2324-8955

Physics

Astrophysics & Aerospace Technology	2329-6542
Research & Reviews: Journal of Pure and Applied Physics	2320-2459
Vortex Science and Technology	2090-8369

Social & Political Sciences

Anthropology	2332-0915
Arts and Social Sciences Journal	2151-6200
Civil & Legal Sciences	2169-0170
Forensic Anthropology	-
Global Media Journal	1550-7521
Intellectual Property Rights: Open Access	2375-4516
Mass Communication & Journalism	2165-7912
Political Science & Public Affairs	2332-0761
Research & Reviews: Journal of Educational Studies	-
Research & Reviews: Journal of Social Sciences	-
Socialomics	2167-0358
Sociology & Criminology	2375-4435

Veterinary Sciences

Animal Nutrition	-
Primatology	2167-6801
Research & Reviews: Journal of Veterinary Sciences	-
Research & Reviews: Journal of Zoological Sciences	2321-6190
Veterinary Science & Medical Diagnosis	2325-9590
Veterinary Science & Technology	2157-7579

Impact Factors* (IF)

Journal Name	Pubmed Short Name	Impact Factor
Biological Systems: Open Access	Biol Syst Open Access	0.76
Journal of Biotechnology & Biomaterials	J Biotechnol Biomater	1.94
Journal of Psychology & Psychotherapy	J Psychol Psychother	1.3
Advanced Techniques in Biology & Medicine	Adv Tech Biol Med	1.08
AIDS & Clinical Research	J AIDS Clin Res	2.7
Autism Open Access	Autism Open Access	3.52
Biochemistry & Physiology: Open Access	Biochem Physiol	1.03
Diversity Equality in Health & Care	Divers Equal Health Care	2.49
Drug Designing: Open Access	Drug Des	6
Fungal Genomics & Biology	Fungal Genom Biol	1.15
International Journal of Genomic Medicine	Int J Genomic Med	0.67
Journal of Addiction Research & Therapy	J Addict Res Ther	2.86
Journal of Alzheimers Disease & Parkinsonism	J Alzheimers Dis Parkinsonism	1.18
Journal of Fertilization: In Vitro	JFIV Reprod Med Genet	1
Journal of Genetic Syndromes & Gene therapy	J Genet Syndr Gene Ther	2.34
Journal of Microbial & Biochemical Technology	J Microb Biochem Technol	2.5
Journal of Nursing & Care	J Nurs Care	1.6
Journal of Osteoporosis and Physical Activity	J Osteopor Phys Act	0.66
Journal of Yoga & Physical Therapy	J Yoga Phys Ther	1.17
Molecular Biology	Mol Biol	1.85
Neurology & Neurophysiology	J Neurol Neurophysiol	0.77
Primary health care	Prim Health Care	1
Quality in Primary Care	Qual Prim Care	3.88
Tissue Science & Engineering	J Tissue Sci Eng	2.72
Biochemistry & Analytical Biochemistry	Biochem Anal Biochem	2.6
Molecular and Genetic Medicine	J Mol Genet Med	2.89
Advancements in Genetic Engineering	Adv Genet Eng	1
Enzyme Engineering	Enz Eng	2.3
Depression and Anxiety	J Depress Anxiety	1
Human Genetics & Embryology	Human Genet Embryol	1.2
Current Synthetic and Systems Biology	Curr Synthetic Sys Biol	0.8
Hereditary Genetics: Current Research	Hereditary Genet	1.2
International Journal of Emergency Mental Health and Human Resilience	Int J Emerg Ment Health	6.5
Spine	J Spine	1.9
Cloning & Transgenesis	Clon Transgen	1.5
Journal of Medical Microbiology & Diagnosis	J Med Microb Diagn	1.9
Biosensors Journal	Biosens J	0.33
Defense Management	J Def Manag	0.5
Review of Public Administration and Management	Review Pub Administration Manag	0.2
Single cell biology	Single Cell Biol	1
Gerontology & Geriatric Research	J Gerontol Geriatr Res	1
Neuroinfectious Diseases	J Neuroinfect Dis	2.4
Cell Science & Therapy	J Cell Sci Ther	1.37
Molecular Biomarkers & Diagnosis	J Mol Biomark Diagn	2.1
Brain Disorders & Therapy	Brain Disord Ther	1.6
Clinical Case Reports	J Clin Case Rep	1.2
Gene Technology	Gene Technol	0.83
Socialomics	J Socialomics	2.3
Journal of Trauma and Treatment	J Trauma Treat	0.6
Translational Biomedicine	Transl Biomed	1.06
Journal of Neurology and Neuroscience	J Neurol Neurosci	0.88
Research & Reviews: Journal of Botanical Sciences	J Bot Sci	0.33
Journal of Psychiatry	J Psychiatry	2.32
Anaplastology	Anaplastology	0.73
Tropical Medicine & Surgery	Trop Med Surg	0.4
Orthopedic & Muscular System: Current Research	Orthop Muscular Syst	0.32
Pediatrics & Therapeutics	Pediat Therapeut	1.32
Sports Medicine & Doping Studies	J Sports Med Doping Stud	1.45
Journal of Oral Hygiene & Health	J Oral Hyg Health	0.52
Emergency Medicine	Emerg Med (Los Angel)	0.875
Journal of Transplantation Technologies & Research	J Transplant Technol Res	1.39
Journal of Hypertension: Open Access	J Hypertens (Los Angel)	0.92
International Journal of Waste Resources	Int J Waste Resour	1.95
Surgery: Current research	Surgery Curr Re	0.587
Oral Health and Dental Management	Oral Health Dent Manag	1.23
International Journal of Advancement technology	Int J Adv Tech	5.08
Translational Medicine	Transl Med (Sunnyvale)	1.312
Air and Water Borne Diseases	Air Water Borne Diseases	0.6
Journal of Coastal Zone Management	J Coast Zone Manag	0.54
Biology and Medicine	Biol Med (Aligarh)	3.07
Journal of Bioterrorism and Biodefense	J Bioterror Biodef	0.38
Journal of Tropical Diseases & Public Health	J Trop Dis	0.83
Journal of Surgery	Journal of Surgery [Jurnalul de chirurgie]	0.08
Nephrology & Therapeutics	J Nephrol Ther	0.318
Journal of Fundamentals of Renewable Energy and Applications	J Fundam Renewable Energy Appl	1.41
Advances in Pharmacoepidemiology & Drug Safety	Adv Pharmacoepidemiol Drug Saf	1.37
Bioanalysis & Biomedicine	J Bioanal Biomed	1.67
Biochemistry & Pharmacology: Open Access	Biochem Pharmacol (Los Angel)	2.09
Bioequivalence & Bioavailability	J Bioequiv Availab	1.88
Biomolecular Research & Therapeutics	J Biomol Res Ther	1.67
Cardiovascular Pharmacology: Open Access	Cardiol Pharmacol	1.77
Clinical & Experimental Pharmacology	Clin Exp Pharmacol	1.83
Clinical Pharmacology & Biopharmaceutics	Clin Pharmacol Biopharm	1.69
Data Mining in Genomics & Proteomics	J Data Mining Genomics Proteomics	2
Drug Metabolism & Toxicology	J Drug Metab Toxicol	1.37
Ergonomics	J Ergonomics	1.38
Glycomics & Lipidomics	J Glycomics Lipidomics	1.82
Health & Medical Informatics	J Health Med Inform	1.98
Metabolomics: Open Access	Metabolomics (Los Angel)	3.03
Nanomedicine & Biotherapeutic Discovery	J Nanomedine Biotherapeutic Discov	2.69
OMICS Journal of Radiology	OMICS J Radiol	0.54
Pharmaceutica Analytica Acta	Pharm Anal Acta	1.83
Pharmaceutical Regulatory Affairs: Open Access	Pharm Regul Aff	1.88
Pharmacogenomics & Pharmacoproteomics	J Pharmacogenomics Pharmacoproteomics	1.69
Pharmacovigilance	J Pharmacovigil	2.65
Phylogenetics & Evolutionary Biology	J Phylogenetics Evol Biol	2.76
Proteomics & Bioinformatics	J Proteomics Bioinform	2.55
Advances in Automobile Engineering	Adv Automob Eng	1.750
Advances in Robotics & Automation	Adv Robot Autom	0.813
Arts and Social Sciences Journal	Arts Social Sci J	1.231
Bioceramics Developments and Applications	Bioceram Dev Appl	0.958
Business & Financial Affairs	J Bus & Fin Aff	2.000
Generalized Lie Theory and Applications	J Generalized Lie Theory Appl	1.750
Irrigation & Drainage Systems Engineering	Irrigat Drainage Sys Eng	4.286
Industrial Engineering & Management	Ind Eng Manage	0.474
Aeronautics & Aerospace Engineering	J Aeronaut Aerospace Eng	1.407
Applied & Computational Mathematics	J Appl Computat Math	0.581
Architectural Engineering Technology	J Archit Eng Tech	1.071
Accounting & Marketing	J Account Mark	0.500
Aquaculture Research & Development	J Aquac Res Development	1.272
Bioengineering & Biomedical Science	J Bioeng Biomed Sci	1.235
Biometrics & Biostatistics	J Biomet Biostat	1.272
Biosensors & Bioelectronics	J Biosens Bioelectron	2.137
Civil & Environmental Engineering	J Civil Environ Eng	1.294
Cytology & Histology	J Cytol Histol	0.569
Civil & Legal Sciences	J Civil Legal Sci	0.286
Ecosystem & Ecography	J Ecosyst Ecogr	1.806
Electrical & Electronic Systems	J Elec Electron Syst	0.533
Earth Science & Climatic Change	J Earth Sci Clim Change	2.082
Geography & Natural Disasters	J Geogr Nat Disast	0.800
Hotel & Business Management	J Hotel Bus Manage	1.600
Information Technology & Software Engineering	J Inform Tech Soft Engg	2.789
Molecular Imaging & Dynamics	J Mol Imaging Dynam	2.091

Earth Science & Climatic Change	J Earth Sci Clim Change	2.082
Geography & Natural Disasters	J Geogr Nat Disast	0.800
Hotel & Business Management	J Hotel Bus Manage	1.600
Information Technology & Software Engineering	J Inform Tech Soft Engg	2.789
Molecular Imaging & Dynamics	J Mol Imaging Dynam	2.091
Petroleum & Environmental Engineering	J Pet Environ Biotechnol	2.839
Stock & Forex Trading	J Stock Forex Trad	0.300
Textile Science & Engineering	J Textile Sci Eng	0.667
Tourism & Hospitality	J Tourism Hospit	1.190
Telecommunications System & Management	J Telecommun Syst Manage	0.800
Physical Mathematics	J Phys Math	4.500
Nanomedicine & Nanotechnology	J Nanomed Nanotechnol	4.68
Arabian Journal of Business and Management Review	Arab J Bus Manage Rev	1.42
Research and Reviews: Journal of Engineering and Technology	Engineering and Technology	0.14
Journal of Material Sciences & Engineering	J Material Sci Eng	1.31
Journal of Mass Communication & Journalism	J Mass Communicat Journalism	0.62
Journal of Powder Metallurgy & Mining	J Powder Metall Min	0.71
Journal of Applied Mechanical Engineering	J Appl Mech Eng	1.65
Archives of Clinical Microbiology		0.35
Dentistry	Dentistry	1.22
Journal of Diabetes & Metabolism	J Diabetes Metab	1.77
Otolaryngology: Current Research	Otolaryngol (Sunnyvale)	0.22
Journal of Metabolic Syndrome	J Metabolic Synd	1.27
Journal of Primatology	J Primatol	0.53
Journal of Thyroid Disorders & Therapy	Thyroid Disorders Ther	0.43
Jounal of Novel Physiotherapies	J Nov Physiother	1.24
Journal of Stem Cell Research & Therapy	J Stem Cell Res Ther	2.78
Anatomy & Physiology: Current Research	Anat Physiol	1
Pancreatic Disorders & Therapy	Pancreat Disord Ther	0.54
Journal of Cancer Science & Therapy	J Cancer Sci Ther	4.203
Journal of Biomedical Sciences		0.2
Journal of Nutritional Disorders & Therapy	J Nutr Disord Ther	1.46
Medical & Surgical Urology	Med Surg Urol	0.3
Journal of Biochips & Tissue Chips	J Biochip Tissue Chip	1.7
Journal of Liver	J Liver	0.08
Journal of Family Medicine and Medical Research	Fam Med Med Sci Res	0.78
Gynecology & Obstetrics	Gynecol Obstet (Sunnyvale)	0.52
Journal of Integrative Oncology	J Integr Oncol	1.67
Journal of Neonatal Biology	J Neonatal Biol	0.55
Journal of Glycobiology	J Glycobiology	0.8
Journal of Blood & Lymph	J Blood Lymph	0.12
Journal of Arthritis	J Arthritis	1.87
Journal of Membrane Science & Technology	J Membra Sci Technol	1.18
Medicinal Chemistry	Med Chem (Los Angeles)	2.64
Journal of Physical Chemistry & Biophysics	J Phys Chem Biophys	0.75
Organic Chemistry: Current Research	Organic Chem Curr Res	1.94
Journal of Bioprocessing & Biotechniques	J Bioprocess Biotech	1.74
Journal of Environmental & Analytical Toxicology	J Environ Anal Toxicol	2.58
Journal of Chemical Engineering & Process Technology	J Chem Eng Process Technol	1.21
Journal of Computer Science & Systems Biology	J Comput Sci Syst Biol	1.62
Journal of Analytical & Bioanalytical Techniques	J Anal Bioanal Tech	2.16
Journal of Plant Biochemistry & Physiology	J Plant Biochem Physiol	2.28
Journal of Chromatography & Separation Techniques	J Chromatogr Sep Tech	1.78
Journal of Thermodynamics & Catalysis		0.91
Community Medicine & Health Education	J Community Med Health Educ	1.27
Epidemiology: Open Access	Epidemiology (Sunnyvale)	1.35
Obesity & Weight Loss Therapy	J Obes Weight Loss Ther	0.94
Pain & Relief	J Pain Relief	1.14
Palliative Care & Medicine	J Palliat Care Med	0.88
Steroids & Hormonal Science	J Steroids Horm Sci	0.65
Gastrointestinal & Digestive System	J Gastrointest Dig Syst	0.43
Hair: Therapy & Transplantation		0.6
Andrology	Andrology (Los Angel)	1.16
Endocrinology & Metabolic Syndrome	Endocrinol Metab Syndr	1.12
Internal Medicine		2.48
Sleep Disorders & Therapy	J Sleep Disord Ther	0.5
Nuclear Medicine & Radiation Therapy	J Nucl Med Radiat Ther	0.88
Alternative & Integrative Medicine	Altern Integr Med	1.11
Pulmonary & Respiratory Medicine	J Pulm Respir Med	1.01
Occupational Medicine Health Affairs	Occup Med Health Aff	0.85
Reproductive System & Sexual Disorders	Reprod Syst Sex Disord	1.25
Medical Diagnostic Methods		0.29
Blood Disorders & Transfusion	J Blood Disord Transfus	0.5
General Medicine	Gen Med (Los Angel)	0.86
Bioenergetics: Open Access	Bioenergetics	3.1
Chemotherapy: Open Access	Chemotherapy (Los Angel)	1.8
Clinical & Experimental Pathology	J Clin Exp Pathol	1.54
Carcinogenesis & Mutagenesis	J Carcinog Mutagen	1.9
Clinical Research & Bioethics	J Clinic Res Bioeth	0.95
Vaccines & Vaccination	J Vaccines Vaccin	1.8
Immunome Research	Immunome Res	7.1
Clinical & Experimental Ophthalmology	J Clin Exp Ophthalmol	1.11
Clinical & Experimental Dermotology Research	J Clin Exp Dermatol Res	0.5
Clinical & Experimental Cardiology	J Clin Exp Cardiolog	1.33
Clinical Microbiology: Open Access	Clin Microbiol	0.7
Anesthesia & Clinical research	J Anesth Clin Res	0.7
Mycobacterial Diseases	Mycobact Dis	0.9
Clinical Toxicology	J Clin Toxicol	1.39
Clinical Trials & Research	J Clin Trials	1.33
Antivirals & Antiretrovirals	J Antivir Antiretrovir	1.27
Fermentation Technology	Ferment Technol	3.44
Clinical & Cellular immunology	J Clin Cell Immunol	2.019
Allergy & Therapy	J Allergy Ther	0.762
Bacteriology & Parasitology	J Bacteriol Parasitol	2.025
Rheumatology: Current Research	Rheumatology (Sunnyvale)	1.522
Virology & Mycology	Virol Mycol	0.69
Clinics in Mother and Child Health	Clinics Mother Child Health	0.432
Womens Health Care	J Womens Health Care	0.79
Marine Science: Research & Development	J Marine Sci Res Dev	0.45
Plant Pathology & Microbiology	J Plant Pathol Microbiol	1.75
Geology & Geophysics	J Geol Geophys	0.91
FisheriesSciences	J Fisheries Sci	0.51
Fisheries and Aquaculture Journal	Fish Aquac J	0.69
Bioremediation & Biodegradation	J Bioremediat Biodegrad	2.1
Advances in Crop Science and Technology	Adv Crop Sci Tech	0.39
Journal of Remote Sensing & GIS	J Geophys Remote Sens	0.77
Biofertilizers & Biopesticides	J Biofertil Biopestic.	1.19
Hydrology: Current Research	Hydrol Current Res	1.12
Probiotics & Health	J Prob Health	0.69
Veterinary Science & Technology	J Veterinar Sci Technolo	2.5
Medicinal & Aromatic Plants	Med Aromat Plants	2.02
Forest Research	Forest Res	1.69
International Journal of Sensor Networks and Data Communications	Sensor Netw Data Commun	1.66
Innovative Energy Policies	Innov Energ Policies	0.88
Biodiversity & Endangered Species	J Biodivers Endanger Species	0.25
Biosafety	Biosafety	0.49
Agrotechnology	Agrotechnol	0.69
Journal of Traditional Medicine and Clinical Naturopathy	J Tradition Med Clin Naturopth	0.49
Nutrition & Food Sciences	J Nutr Food Sci	1.14
Entomology, Ornithology & Herpetology	Entomol Ornithol Herpetol	1.26

Impact Factor Calculation:

Impact Factor was established by dividing the number of articles published in 2012 and 2013 with the number of times they are cited in 2014 based on Google search and the Scholar Citation Index database. If 'X' is the total number of articles published in 2012 and 2013, and 'Y' is the number of times these articles were cited in indexed journals during 2014 than, impact factor = Y/X







7th International Conference and Exhibition on

Cell and Gene Therapy

March 15-16, 2018 | London, UK

Supporting Journals

Cell Therapy 2018

Supporting Journals

Journal of Stem Cell Research & Therapy
www.omicsonline.org/stem-cell-research-therapy.php

Journal of Genetic Syndromes & Gene Therapy
www.omicsonline.org/genetic-syndromes-gene-therapy.php

Journal of Cell Science & Therapy
www.omicsonline.org/cell-science-therapy.php



Agri, Food, Aqua & Veterinary





21st Euro-Global Summit on Food and Beverages
March 08-10, 2018 Berlin, Germany
E: eurofood@foodtechconferences.com
W: food.global-summit.com/europe

10th Euro-Global Summit on Aquaculture & Fisheries
May 28-29, 2018 London, UK
E: aquaeurope@aquaconferences.com
W: aquaculture-fisheries.conferenceseries.com/europe

8th International Conference on
Food Safety & Regulatory Measures
June 11-12, 2018 Barcelona, Spain
foodsafety@foodtechconferences.com
W: foodsafety-hygiene.conferenceseries.com

11th International Veterinary Congress
July 02-03, 2018 Berlin, Germany
E: veterinary@veterinaryseries.com
W: veterinary.conferenceseries.com

3rd International Conference on
Food and Beverage Packaging
July 16-18, 2018 Rome, Italy
E: foodpackaging@foodtechconferences.com
W: foodpackaging.conferenceseries.com

5th Annual Congress on
Plant & Soil Science
August 16-17, 2018 London, UK
E: plant-soil@plantscienceconferences.com
W: plantscience-biology.agriconferences.com

13th International Conference on
Agriculture & Horticulture
September 10-12, 2018 Zurich, Switzerland
E: agri@foodtechconferences.com
W: agriculture-horticulture.conferenceseries.com

21st International Conference on
Food Technology & Processing
October 02-04, 2018 London, UK
E: foodtechnology@foodtechconferences.com
W: foodtechnology.conferenceseries.com

22nd International Conference on
Food Processing & Analysis
October 11-13, 2018 Moscow, Russia
E: eurofoodprocessing@foodtechconferences.com
W: foodprocessing.foodtechconferences.org

6th Global Summit on Plant Science
October 29-30, 2018 Valencia, Spain
E: plantscience@plantscienceconferences.com
W: plantscience.global-summit.com

9th European Food Safety & Standards Conference
November 29-30, 2018 Dublin, Ireland
E: eurofoodsafety@foodtechconferences.com
W: foodsafety-hygiene.conferenceseries.com/europe

3rd International Conference on Food Microbiology
November 26-28, 2018 Dublin, Ireland
E: foodmicrobiology@foodtechconferences.com
W: foodmicrobiology.conferenceseries.com

Alternative Healthcare





9th International Conference and Exhibition on
Chinese Medicine, Ayurveda & Acupuncture
March 12-13, 2018 Barcelona, Spain
E: chinesemedicine@healthconferences.org
W: chinesemedicine.conferenceseries.com

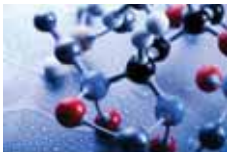
5th International Conference and Exhibition on
Herbal and Traditional Medicine
June 14-15, 2018 Rome, Italy
E: herbalmedicine@annualconferences.org
W: herbalconference.annualcongress.com

8th International Conference & Exhibition on
Traditional & Alternative Medicine
November 01-03, 2018 Valencia, Spain
E: traditionalmedicine@healthconferences.org
W: traditionalmedicine.conferenceseries.com






Biochemistry





3rd International Conference on
Enzymology and Molecular Biology
March 05-06, 2018 London, UK
E: enzymology@annualconferences.org
W: enzymology.conferenceseries.com

13th International Conference on
Metabolomics and Systems Biology
June 11-12, 2018 London, UK
E: eurometabolomics@annualconferences.org
W: europe.metabolomicsconference.com

4th International Conference on
Lipid Science & Technology
July 23-24, 2018 Birmingham, UK
E: lipids@biochemconferences.org
W: lipids.conferenceseries.com

4th Glycobiology World Congress
September 17-19, 2018 Rome, Italy
E: glycobiology@annualconferences.org
W: glycobiology.conferenceseries.com

14th International Conference on Structural Biology
September 24-26, 2018 Berlin, Germany
E: structuralbiology@biochemconferences.org
W: structuralbiology.conferenceseries.com

12th International Conference on
Advancements in Bioinformatics and Drug Discovery
November 29-30, 2018 Dublin, Ireland
E: bioinformatics@annualconferences.org
W: bioinformatics.conferenceseries.com

12th International Conference and Expo on
Proteomics and Molecular Medicine
November 26-28, 2018 Dublin, Ireland
E: proteomics@annualconferences.org
W: www.proteomicsconference.com

Cardiology





24th Annual Cardiologists Conference
June 11-13, 2018 Barcelona, Spain
E: cardiologists@cardiologyconference.org
W: annualmeeting.conferenceseries.com/cardiologists

26th Annual Conference on
Clinical & Medical Case Reports in Cardiology
July 05-06, 2018 Berlin, Germany
E: cardiologycasereports@annualconferences.org
W: casereports.cardiologymeeting.com

3rd International Conference on
Cardiovascular Medicine and Cardiac Surgery
July 05-06, 2018 Berlin, Germany
E: cardiovascular@cardiologyconference.org
W: cardiovascular.conferenceseries.com

4th International Conference on
Hypertension & Healthcare
September 10-11, 2018 Zurich, Switzerland
E: hypertension@cardiologymeetings.com
W: hypertension.conferenceseries.com

27th European Cardiology Conference
October 22-24, 2018 Rome, Italy
E: eurocardiology@cardiologyconference.org
W: cardiology.conferenceseries.com/europe

29th World Cardiology Conference
November 19-20, 2018 Edinburg, Scotland
E: worldcardiology@annualconferences.org
W: worldcardiology.conferenceseries.com






Chemical Engineering





8th International Conference on
Petroleum Engineering
May 17-18, 2018 Rome, Italy
E: petroleumengineering@chemseries.com
W: petroleumengineering.conferenceseries.com

8th World Congress on
Biopolymers
June 28-30, 2018 Berlin, Germany
E: biopolymercongress@chemseries.com
W: biopolymers.conferenceseries.com

11th World Bioenergy Congress and Expo
July 02-04, 2018 Berlin, Germany
E: bioenergy@chemseries.com
W: bioenergy.conferenceseries.com

12th Global Summit and Expo on
Biomass and Bioenergy
September 04-05, 2018 Zurich, Switzerland
E: eurobiomass@chemseries.com
W: materials.conferenceseries.com

13th World Congress on
Biofuels and Bioenergy
September 04-06, 2018 Zurich, Switzerland
E: biofuelscongress@chemseries.com
W: biofuels-bioenergy.conferenceseries.com/europe

5th International Conference on
Advances in Chemical Engineering & Technology
October 04-05, 2018 London, UK
E: eurochemengineering@chemseries.com
W: chemicalengineering.conferenceseries.com/europe

Chemistry





4th European Organic Chemistry Congress
March 01-03, 2018 London, UK
E: euroorganicchemistry@chemistryconference.org
W: organicchemistry.conferenceseries.com/europe

6th International Conference and Exhibition on
Materials Science and Chemistry
May 17-18, 2018 Rome, Italy
E: materialschemistry@chemistryconference.org
W: materialschemistry.conferenceseries.com

4th International Conference on
Electrochemistry
June 11-12, 2018 Rome, Italy
E: electrochemistry@chemistryconference.org
W: electrochemistry.conferenceseries.com

10th World Congress on
Medicinal Chemistry and Drug Design
June 14-15, 2018 Barcelona, Spain
E: medicinalchemistry@chemistryconference.org
W: medicinalchemistry.pharmaceuticalconferences.com/europe

7th World Congress on
Mass Spectrometry
June 20-22, 2018 Rome, Italy
E: euromassspectrometry@chemistryconference.org
W: massspectra.com/europe

8th European Chemistry Congress
June 21-23, 2018 Paris, France
E: eurochemistry@conferenceseries.net
W: chemistry.conferenceseries.com/europe

6th International Conference and Exhibition on
Advances in Chromatography & HPLC Techniques
August 02-03, 2018 Barcelona, Spain
E: hplc@chemistryconference.org
W: hplc.conferenceseries.com






7th International Conference and Exhibition on
Pain Research and Management
September 04-05, 2018 Zurich, Switzerland
E: painmanagement@chemistryconference.org
W: painmanagement.conferenceseries.com

9th International Conference and Expo on
Separation Techniques
September 13-14, 2018 Zurich, Switzerland
E: separationtechniques@chemistryconference.org
W: separationtechniques.conferenceseries.com

8th International Conference on
Environmental Chemistry and Engineering
September 20-22, 2018 Berlin, Germany
E: environmentalchemistry@chemistryconference.org
W: environmentalchemistry.conferenceseries.com

5th International Conference on
Physical and Theoretical Chemistry
October 11-13, 2018 Edinburgh, Scotland
E: physicalchemistry@chemistryconference.org
W: physicalchemistry.conferenceseries.com

3rd International Conference on
Pharmaceutical Chemistry
October 29-31, 2018 Brussels, Belgium
E: pharmaceuticalchemistry@pharmaceuticalconferences.org
W: pharmaceuticalchemistry.conferenceseries.com

Dentistry





21st Annual World Denal Summit
February 26-28, 2018 Paris, France
E: dentalworld@dentalcongress.com
W: worlddental.conferenceseries.com

25th International Conference on
Dental Education
April 9-10,2018 Amsterdam, Netherlands
E: dentaleducation@annualconferences.org
W: dentaleducation.dentalcongress.com

24th Global Dentists and Pediatric Dentistry Annual Meeting
June 11-12, 2018 London, UK
E: dentists@dentalcongress.com
W: annualmeeting.conferenceseries.com/dentists/

25th World Congress on
Dentistry and Oral Health
July 09-10, 2018 Berlin, Germany
E: dentistrycongress@dentistryconferences.com
W: dentalevent.conferenceseries.com

23rd International Conference on
Dentistry and Dental Materials
July 19-20, 2018 Rome, Italy
E: dentalmaterials@dentalcongress.com
W: dentalmaterials.dentistryconferences.com

4th International Conference on
Dental and Clinical Dentistry
September 10-11, 2018 Copenhagen, Denmark
E: clinicaldentistry@dentistryconferences.com
W: clinicaldentistry.dentistryconferences.com

3rd International Conference on
Advanced Dental Education
November 15-16, 2018 Edinburgh, Scotland
E: advdentaleducation@annualconferences.org
W: advanced-dental-education.dentistryconferences.com

26th Euro Congress and Expo on
Dental and Oral Health
December 10-11, 2018 Rome, Italy
E: eurodentalcongress@dentistryconferences.com
W: www.dentalcongress.com/europe

Dermatology





17th European Dermatology Congress
March 01-03, 2018 Paris, France
E: dermatologycongress@dermatologyconference.org
d W: ermatology.conferenceseries.com/europe






13th Global Dermatologists Congress
July 23-24, 2018 Moscow, Russia
E: dermatologists@dermatologyconference.org
W: annualmeeting.conferenceseries.com/dermatologists

14th International Conference and Exhibition on
Cosmetic Dermatology and Hair Care
August 13-14, 2018 Madrid, Spain
E: cosmeticdermatology@dermatologyconference.org
W: cosmeticdermatology.conferenceseries.com

Diabetes







17th Global Diabetes Conference & Nursing Care
March 08-09, 2018 Paris, France
E: globaldiabetes@conferenceseries.net
W: globaldiabetes.conferenceseries.com

27th European Diabetes Congress
June 20-21, 2018 Rome, Italy
E: eurodiabetes@endocrineconferences.com
W: www.diabetesexpo.com/europe

3rd International Conference on
Metabolic Syndrome & Clinical Management
June 18-19 , 2018 Dublin, Ireland
E: metabolicsyndrome@endocrineconferences.com
W: metabolicsyndromes.conferenceseries.com

29th International Congress on
Prevention of Diabetes and Complications
September 27-28, 2018 Berlin, Germany
E: diabetesmeeting@endocrineconferences.org
W: diabetesmeeting.conferenceseries.com

13th European Diabetes and Endocrinology Congress
November 26-27, 2018 Dublin, Ireland
E: euroendocrinology@endocrineconferences.com
W: europe.endocrineconferences.com

Engineering





2nd International Conference on
3D Printing Technology and Innovations
March 19-20, 2018 London, UK
E: 3dprinting@conferenceseries.net
W: 3dprinting.conferenceseries.com

4th International Conference and Business Expo on
Wireless, Telecommunication & IoT
May 28-29 2018 London, UK
E: wireless@enggconferences.com
W: wirelesscommunication.conferenceseries.com

2nd World Congress on
Wind and Renewable Energy
June 14-15, 2018 London, UK
E: windenergy@enggconferences.com
W: winenergy.conferenceseries.com

3rd International Conference on
Power and Energy Engineering
June 18-19, 2018 Rome, Italy
E: powerengineering@annualconferences.org
W: power-energy.conferenceseries.com

4th International Conference and Exhibition on
Satellite & Space Missions
June 18-20, 2018 Rome, Italy
E: satellite@annualconferences.org
W: satellite.conferenceseries.com

5th International Conference on
Big Data Analysis and Data Mining
June 20-21, 2018 Rome, Italy
E: bigdata@enggconferences.com
W: datamining.conferenceseries.com

4th Global Summit and Expo on
Multimedia & Artificial Intelligence
July 19-21,2018 Rome, Italy
E: multimedia@enggconferences.com
W: multimedia.global-summit.com






International Conference on
Aerospace and Aerodynamics
August 02-03, 2018 Barcelona, Spain
E: aerospace@annualconferences.org
W: aerospace-engineering.conferenceseries.com

9th Euro Biosensors and Bioelectronics conference
September 13-14, 2018 London, UK
E: eurobiosensors@conferenceseries.net
W: biosensors.conferenceseries.com/europe

5th International Conference and Exhibition on
Automobile Engineering
September 20-21, 2018 Rome, Italy
E: automobile@enggconferences.com
W: automobile.conferenceseries.com/europe

International Conference on
Cloud Computing and Data Analysis
September 06-07, 2018 London, UK
E: cloudcomputing@annualconferences.org
W: cloud-computing.conferenceseries.com

3rd International Conference on
Battery and Fuel Cell Technology
September 10-11, 2018 London, UK
E: batterytech@enggconferences.com
W: batterytech.conferenceseries.com

2nd International Conference on
Membrane Science and Technology
September 13-14, 2018 London, UK
E: membranescience@annualconferences.org
W: membranescience.conferenceseries.com

2nd International Conference on
Mechatronics, Automation and Control Systems
September, 17-18, 2018 Berlin, Germany
E: mechatronics@enggconferences.com
W: mechatronics.conferenceseries.com

3rd International Conference on
Fluid Dynamics & Aerodynamics
October 25-26, 2018 Berlin, Germany
E: fluiddynamics@enggconferences.com
W: fluid-aerodynamics.global-summit.com

International Conference on
Agricultural Engineering and Food Security
November 12-13,2018 Frankfurt, Germany
E: foodsecurity@annualconferences.com
W: agri-foodsecurity.agriconferences.com

3rd International Conference on
Design and Production Engineering
December 03-04, Valencia, Spain
E: productionengineering@annualconferences.org
W: design-production.conferenceseries.com

Environmental Sciences





World Conference on Ecology
March 19-20, 2018 Berlin, Germany
E: ecology@annualconferences.org
W: ecology.conferenceseries.com

8th World Congress and Expo on
Recycling
June 25-26, 2018 Berlin, Germany
E: recyclingexpo@conferenceseries.net
W: recycling.conferenceseries.com

5th World Congress and Expo on
Green Energy
June 14-16 ,2018 London, UK
E: greenenergycongress@earthscienceconferences.com
W: greenenergy.conferenceseries.com/europe

4th International Conference on
Pollution Control and Sustainable Environment
July 26-28, 2018 Rome, Italy
E: pollutioncontrol@conferenceseries.net
W: pollutioncontrol.conferenceseries.com

5th World Conference on
Climate Change
October 04-06, 2018 London, UK
E: climatechange@annualconferences.org
W: climatechange.conferenceseries.com






Gastroenterology





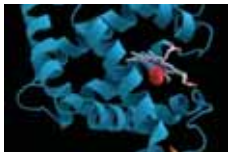
12th Global Gastroenterologists Meeting
March 15-16, 2018 Barcelona, Spain
E: gastro@gastroconferences.org
W: gastro.conferenceseries.com

6th World Congress on
Hepatitis & Liver Diseases
June 18-20, 2018 Dublin, Ireland
E: hepatitis@gastroconferences.com
W: hepatitis.conferenceseries.com

13th Euro-Global Gastroenterology Conference
August 20-21, 2018 Rome, Italy
E: gastrocongress@gastroconferences.com
W: gastroenterology.conferenceseries.com/europe

3rd International conference on
Digestive Diseases
October 22-24, 2018 Berlin, Germany
E: digestivediseases@gastroconferences.com
W: digestivediseases.conferenceseries.com

Genetics and Molecular Biology


7th International Conference and Exhibition on
Cell and Gene Therapy
March 15-17, 2018 London,UK
E: celltherapy@conferenceseries.net
W: cellgenetherapy.conferenceseries.com

20th Global Congress on
Biotechnology
March 05-07, 2018 London, UK
E: biotechcongress@geneticconferences.com
W: biotechnology.conferenceseries.com

6th International Conference on
Integrative Biology
May 21-23, 2018 Barcelona, Spain
E: integrativebiology@conferenceseries.net
W: integrativebiology.conferenceseries.com

10th International Conference on
Genomics and Molecular Biology
May 21-23, 2018 Barcelona, Spain
E: genomics@conferenceseries.net |
W: genomics.conferenceseries.com

4th International Conference on
Synthetic Biology and Tissue Engineering
June 11-12, 2018 Rome, Italy
E: syntheticbiology@conferenceseries.net
W: syntheticbiology.conferenceseries.com

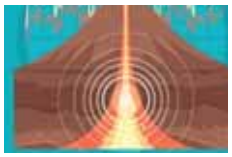
4th International Conference on
Bioscience
July 02-03, 2018 Vienna, Austria
E: bioscience@conferenceseries.net
W: bioscience.conferenceseries.com

10th Annual Conference on
Stem Cell and Regenerative Medicine
August 13-14, 2018 London, UK
E: stemcellcongress@conferenceseries.net
W: stemcell-regenerativemedicine.conferenceseries.com

21st Euro Biotechnology Congress
October 11-12, 2018 Moscow, Russia
E: eurobiotechnology@geneticconferences.com
W: www.biotechnologycongress.com/europe

11th International Conference on
Tissue Engineering & Regenerative Medicine
October 18-20, 2018 Rome, Italy
E: regenerativemedicine@geneticconferences.com
W: tissuescience-regenerativemedicine

Geology and Earth Sciences


2nd Annual Congress on
Soil and Water Sciences
June 14-15, 2018 Dublin, Ireland
E: soilscience@annualconferences.org
W: soilscience.conferenceseries.com






4th International Conference on
GIS and Remote Sensing
September 27-28, 2018 Berlin, Germany
E: giscongress@earthscienceconferences.com
W: gis-remotesensing.conferenceseries.com/europe

Healthcare





3rd World Congress on
Public Health & Nutrition
February 26-28, 2018 London, UK
E: publichealthcongress@healthconferences.org
W: publichealth.global-summit.com

3rd World Congress on
Health Economics & Patient Safety
April 12-13, 2018 Amsterdam, Netherlands
E: healtheconomics@healthconferences.org
W: healtheconomics.global-summit.com

5th International Conference on
Tropical Medicine & Infectious Diseases
May 21-22, 2018 Barcelona, Spain
E: tropicalmedicine@healthconferences.org
W: tropicalmedicine.annualcongress.com

13th World Congress on
Healthcare & Technologies
June 14-15, 2018 Dublin, Ireland
E: healthcaresummit@healthconferences.org
W: healthcare.global-summit.com/europe

2nd International Conference on
Social Sciences & Interdisciplinary Studies
June 18-19, 2018 Rome, Italy
E: socialsciences@healthconferences.org
W: socialsciences.conferenceseries.com

6th International Conference on
Medical Informatics & Telemedicine
July 05-06, 2018 Berlin, Germany
E: medicalinformatics@healthconferences.org
W: medicalinformatics.conferenceseries.com

8th International Conference on
Geriatrics Gerontology & Palliative Nursing
July 30-31, 2018 Barcelona, Spain
E: geriatrics@healthconferences.org
W: geriatrics-gerontology.conferenceseries.com

3rd Internationl Conference on
General Practice & Primary Care
August 16-17, 2018 Madrid, Spain
E: generalpractice@healthconferences.org
W: generalpractice.conferenceseries.com

4th World Congress on Health Economics, Health Policy and Healthcare Management
September 13-14, 2018 Zurich, Switzerland
E: health-economics@healthconferences.org
W: healtheconomics.healthconferences.org

7th International Conference on
Epidemiology & Public Health
September 17-19, 2018 Rome, Italy
E: epidemiology@healthconferences.org
W: epidemiology.conferenceseries.com

3rd International Conference on
Environmental Health & Preventive Medicine
October 15-16, 2018 Warsaw, Poland
E: environmentalhealth@healthconferences.org
W: environmentalhealth.conferenceseries.com

3rd International Conference on
Advances in Skin, Wound Care and Tissue Science
October 18-19, 2018 Rome, Itlay
E: woundcongress@healthcarevents.com
W: woundcare.conferenceseries.com/europe

3rd International Conference on
Healthcare & Hospital Management
October 25-26, 2018 Athens, Greece
E: hospitalmanagement@healthcareevents.com
W: hospitalmanagement.conferenceseries.com

7th International Conference on
Medical & Nursing Education
October 29-30, 2018 Brussels, Belgium
E: medicaleducation@healthconferences.org
W: medicaleducation.conferenceseries.com



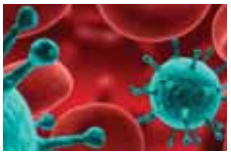
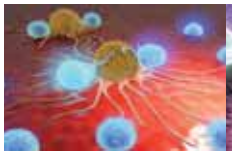



5th International Conference on
Healthcare and Hospital Management
December 03-05, 2018 Rome, Italy
E: hospitalmanagement@healthconferences.org
W: hospital-management.healthconferences.org

3rd International Conference on
Autoimmunity
November 26-27, 2018 Dublin, Ireland
E: autoimmunity@immunologyconferences.org
W: autoimmunity.conferenceseries.com

Immunology

Infectious Diseases




9th Molecular Immunology & Immunogenetics Congress
March 08-09, 2018 London, UK
E: molecularimmunology@immunologyconferences.org
W: molecularimmunology.conferenceseries.com

5th International Congress on
Infectious Diseases
March 01-02, 2018 Berlin, Germany
E: infectioncongress@infectiousconferences.com
W: infectioncongress.conferenceseries.com

9th European Immunology Conference
June 14-16, 2018 Rome, Italy
E: euroimmunology@conferenceseries.net
W: immunology.conferenceseries.com/europe

4th World Congress on
Rare Diseases and Orphan Drugs
June 11-12, 2018 Dublin, Ireland
E: rarediseasecongress@infectiousconferences.com
W: rarediseases.conferenceseries.com/europe

5th International Conference on
Parasitology
July 12-13, 2018 Paris, France
E: parasitology@immunologyconferences.org
W: parasitology.conferenceseries.com

4th International Conference on
Influenza and Zoonotic Diseases
July 02-03, 2018 Vienna, Austria
E: influenza@infectiousconferences.com
W: influenza.conferenceseries.com

10th International Conference on
Clinical and Cellular Immunology
August 06-07, 2018 Madrid, Spain
E: immunologyworld@annualconferences.org
W: immunology.immunologyconferences.org

9th International Conference on
Emerging Infectious Diseases
August 27-28, 2018 Zurich, Switzerland
E: emerginginfections@annualconferences.org
W: emerging-diseases.infectiousconferences.com

11th Annual Congress on
Immunology & Immunotechnology
September 13-14, 2018 Zurich, Swtizerland
E: immunologycongress@annualconferences.org
W: immunologycongress.immunologyconferences.org

6th World Congress on
Control and Prevention of HIV/AIDS, STDs & STIs
August 27-29, 2018 Zurich, Switzerland
E: std@infectiousconferences.com
W: globalhiv-aids-std.infectiousconferences.com

12th International Conference on
Allergy, Asthma & Clinical Immunology
October 01-02, 2018 Moscow, Russia
E: allergy@immunologyconferences.org
W: allergy.conferenceseries.com

10th Euro-Global Conference on Infectious Diseases
September 27-29, 2018 Rome, Italy
E: europe@infectiousconferences.com
W: infection.conferenceseries.com/europe






13th World Congress on
Infection Prevention and Control
October 11-12, 2018 Moscow, Russia
E: ipcc@infectiousconferences.com
W: infectionprevention.conferenceseries.com

7th International Chronic Obstructive
Pulmonary Disease Conference
October 22-23, 2018 Rome, Italy
E: copdconferences@annualconferences.org
W: copd.conferenceseries.com/europe

Materials Science





3rd Annual Conference and Expo on
Biomaterials
March 05-06, 2018 Berlin, Germany
E: biomaterials@materialsconferences.org
W: biomaterials.conferenceseries.com

16th International Conference on
Emerging Materials and Nanotechnology
March 22-23, 2018 London, UK
E: emergingmaterialscongress@materialsconferences.org
W: emergingmaterials.materialsconferences.com

4th International Conference and Expo on
Ceramics and Composite Materials
May 14-15, 2018 Rome, Italy
E: ceramics@materialsconferences.org
W: ceramics.conferenceseries.com

19th World Congress on
Materials Science and Engineering
June 11-13, 2018 Barcelona, Spain
E: materialscongress@materialsconferences.org
W: materialsscience.conferenceseries.com/europe

7th International conference on
Smart Materials and Structures
July 02-03, 2018 Vienna, Austria
E: smartmaterialscongress@annualconferences.org
W: smartmaterials.materialsconferences.com

20th International Conference on
Advanced Energy Materials and research
August 13-14, 2018 Dublin, Ireland
E: advancedenergymaterials@annualconferences.org
W: energymaterials.materialsconferences.com

21st International Conference on
Advanced Materials & Nanotechnology
September 04-06, 2018 Zurich, Switzerland
E: materials@materialsconferences.org
W: materials.conferenceseries.com

International Conference on
Advanced Materials and Simulations
September 11-12, 2018 University of Derby, UK
E: materialssimulation@materialsconferences.org
W: advanced-materials-simulation.materialsconferences.com

3rd International Conference on
Graphene, Carbon Nanotubes, and Nanostructures
September 17-18, 2018 Berlin, Germany
E: carboncongress@materialsconferences.org
W: carbon.materialsconferences.com

Microbiology





16th International Pharmaceutical Microbiology and
Biotechnology Conference
May 21-23, 2018 Vienna, Austria
E: pharmaceutical@microbiologyconferences.org
W: pharmaceuticalmicrobiology.conferenceseries.com/europe

10th International Virology Congress and Expo
July 02-04, 2018 Vienna, Austria
E: eurovirology@microbiologyconferences.org
W: virology.conferenceseries.com/europe

13th International Congress on
Microbial Interactions and Microbial Ecology
July 19-20, 2018 Rome, Italy
E: microbialinteraction@microbiologyconferences.org
W: microbialinteraction.conferenceseries.com

47th World Congress on Microbiology
September 10-11, 2018 London, UK
E: microbiology@microbiologyconferences.org
W: microbiology.conferenceseries.com/europe






9th international summit on
Clinical Microbiology
October 08-09, 2018 Zurich, Switzerland
E: microbiologysummit@microbiologyconferences.org
W: clinicalmicrobiology.conferenceseries.com/europe

5th World Congress and Expo on
Applied Microbiology
November 15-16, 2018 Frankfurt, Germany
E: appliedmicrobiology@microbiologyconferences.org
W: microbiology.conferenceseries.com

Nanotechnology





23rd International Conference on
Nanomaterials and Nanotechnology
March 15-16, 2018 London, UK
E: nanomaterials@nanotechconferences.org
W: nanomaterials.conferenceseries.com

24th World Nano Conference
May 07-08 | 2018 Rome, Italy
E: nano@nanotechconferences.org
W: nano.conferenceseries.com

25th Nano Congress for Future Advancements
August 16-17, 2018 Dublin, Ireland
E: nanocongress@nanotechconferences.org
W: nanocongress.conferenceseries.com

26th International Conference on
Advanced Nanotechnology
October 04-05, 2018 Moscow Russia
E: advancednano@nanotechconferences.org
W: advancednano.nanotechconferences.org

3rd World Congress and Expo on
Graphene and 2D Materials
November 26-28, 2018 Barcelona, Spain
E: graphene@nanotechconferences.org
W: graphene.conferenceseries.com/europe

28th International Conference on
Nanosciences and Nanotechnology
November 26-28, 2018 Barcelona, Spain
E: nanoscience@nanotechconferences.org
W: nanotechnology.conferenceseries.com

Nephrology





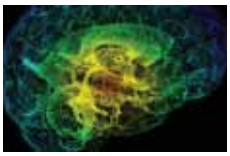
17th International Conference on
Nephrology & Urology
March 12-13, 2018 London, UK
E: nephrology-urology@annualconferences.org
W: nephrology-urology.nephroconferences.com

19th Global Nephrologists Annual Meeting
May 14-15, 2018 Rome, Italy
E: nephrologists@nephroconferences.com
W: annualmeeting.conferenceseries.com/nephrologists/

22nd European Nephrology Conference
October 15-16, 2018 Warsaw, Poland
E: euronephrology@nephroconferences.com
W: nephrology.conferenceseries.com/europe

Neuroscience





21st World Congress on Neurology and Therapeutics
March 15-17, 2018 London, UK
E: neurology@neuroconferences.com
W: neurologyconference.com






22nd International Conference on
Neurology & Neurophysiology
April 23-24, 2018 Rome, Italy
E: neurophysiology@neuroconferences.com
W: neurophysiology.conferenceseries.com

23rd International Conference on
Neurology and Neurosurgery
April 23-24, 2018 Rome, Italy
E: neurosurgery@neuroconferences.org
W: neurosurgery.conferenceseries.com

24th International Conference on
Neuroscience and Neurochemistry
May 21-22, 2018 Birmingham, UK
E: neurochemistry@neuroconferences.com
W: neurochemistry.conferenceseries.com

11th International Conference on
Alzheimers Disease & Dementia
May 24-25, 2018 Vienna, Austria
E: dementiacongress@neuroconferences.com
W: alzheimers-dementia.neurologyconference.com

3rd International Conference on Spine and Spinal Disorders
June 11-12, 2018 London, UK
E: spine@neuroconferences.com
W: spine.conferenceseries.com

25th World Congress on Neurology & Neuroscience
June 18-19, 2018 Dublin, Ireland
E: neurosciencecongress@neuroconferences.com
W: neuroscience.neurologyconference.com

27th Euro-Global Neurologists Meeting
July 23-25, 2018 Moscow, Russia
E: neurologistsconference@neuroconferences.com
W: neurologists.neurologyconference.com

11th International Conference on Vascular Dementia
July 23-25, 2018 Moscow, Russia
E: vasculardementiacongress@neuroconferences.com
W: vasculardementia.neurologyconference.com

7th World Congress on
Addictive Disorders & Addiction Therapy
July 16-18, 2018 London, UK
E: addiction@neuroconferences.com
W: addictiontherapy.conferenceseries.com/europe

26th European Neurology Congress
August 6-8, 2018 Madrid, Spain
E: neurologycongress@neuroconferences.com
W: neurologyconference.com/europe

4th International Conference on Epilepsy & Treatment
August 29-30, 2018 Zurich, Swtizerland
E: epilepsy@neuroconferences.com
W: epilepsytreatment.conferenceseries.com

4th World Congress on Parkinsons & Huntington Disease
August 29-30, 2018 Zurich, Swtizerland
E: parkinson@neuroconferences.com
W: parkinsons.neurologyconference.com

6th International Conference on
Brain Disorders and Therapeutics
September13-15, 2018 Copenhagen, Denmark
E: braindisorders@neuroconferences.com
W: braindisorders.conferenceseries.com

7th International Conference on Neurological Disorders & Stroke
September 20-21, 2018 Rome, Italy
E: strokecongress@neuroconferences.com
W: stroke.neurologyconference.com

27th International Conference on
Neurology and Cognitive Neuroscience
October 18-19, 2018 Warsaw, Poland
E: neurocognitive@neuroconferences.com
W: neurocognitivedisorders.conferenceseries.com

12th International Conference on
Alzheimer's Disease & Dementia
October 29-31, 2018 Valencia, Spain
E: dementia@neuroconferences.com
W: alzheimers-dementia.conferenceseries.com

4th International Conference on Spine Surgery
November 1-2, 2018 Brussels, Belgium
E: spinesurgeryconference@neuroconferences.com
W: spinalsurgery.neurologyconference.com

28th Global Neurologists Annual Meeting on
Neurology and Neurosurgery
November 1-3, 2018 Brussels, Belgium
E: neurologists@neuroconferences.com
W: annualmeeting.conferenceseries.com/neurologists






4th International Conference on Spine and Spinal Disorders
November 12-13, 2018 Frankfurt, Germany
E: spinecongress@neuroconferences.com
W: spine.conferenceseries.com/europe

4th International Conference on
Central Nervous System Disorders & Therapeutics
November 12-14, 2018 Edinburgh, Scotland
E: cns@neuroconferences.com
W: cns.conferenceseries.com

Nursing





47th Global Nursing & Healthcare Conference
March 01-03, 2018 London, UK
E: nursingglobal@nursingconference.com
W: global.nursingconference.com/europe

7th World Congress on Breast Cancer
May 10-11, 2018 Frankfurt, Germany
E: breastcancer@conferenceseries.net
W: breastcancer.conferenceseries.com

3rd International Conference on
Reproductive Health and Medicine
May 21-22, 2018 Vienna, Austria
E: reproductivemedicine@healthconferences.org
W: reproductivehealth.conferenceseries.com/europe

48th World Congress on
Advanced Nursing Research
June 14-15, 2018 Dublin, Ireland
E: nursingresearch@annualconferences.org
W: nursingresearch.nursingmeetings.com

2nd World Congress on
Patient Safety & Quality Healthcare
June 21-22, 2018 Dublin, Ireland
E: patientsafety@healthconferences.org
W: patientsafety.conferenceseries.com

49th International Congress on
Nursing Care Plan and Health
16 -18 July 2018 Rome, Italy
E: nursingcareplan@annualconferences.org
W: nursingcareplan.nursingmeetings.com

50th World Congress On Men in Nursing
July 16-17, 2018 Rome, Italy
mennursing@annualconferences.org
W: men.nursingmeetings.com

5th Annual Congress on
Emergency Nursing & Critical Care
July 16-17, 2018 London, UK
E: emergencynursing@annualconferences.org
W: emergency.nursingmeetings.com

26th Cancer Nursing & Nurse Practitioners Conference
July 16-17, 2018 London, UK
E: cancernursing@nursingconference.com
W: cancernursing.nursingconference.com

31st World Congress on
Advanced Nursing Practice
August 16-18, 2018 Madrid, Spain
E: nursingpractice@nursingconference.com
W: nursingpractice.nursingconference.com

29th International Conference on
Pediatric Nursing & Healthcare
August 16-17, 2018 Madrid, Spain
E: pediatricnursing@nursingconference.com
W: pediatric.nursingconference.com

17th World Congress on
Clinical Nursing and Practice
August 29-30, 2018 Zurich, Swtizerland
E: clinicalnursing@annualconferences.org
W: clinical.nursingmeetings.com

5th World Congress on
Midwifery & Women's Health
September 13-14, 2018 Frankfurt, Germany
E: euromidwifery@nursingconference.com
W: midwifery.conferenceseries.com/europe

24th World Nursing and Healthcare Conference
September 13-15, 2018 Copenhagen, Denmark
E: worldnursing@annualconferences.org
W: world.nursingconference.com






51st World Nursing Leadership & Management Conference
October 04-05, 2018 Moscow, Russia
E: nursingleadership@annualconferences.org
W: nursingleadership.nursingmeetings.com

5th International Conference on
Gynecology and Obstetrics
October 8-10, 2018- Zurich, Switzerland
E: gynecology@nursingconference.com
W: gynecology.conferenceseries.com

33rd Euro Nursing & Medicare Summit
October 8-10, 2018 Edinburgh, Scotland
E: euronursing@nursingconference.com
W: europe.nursingconference.com

27th World Nursing Education Conference
November 12-14, 2018 Frankfurt, Germany
E: nursingeducation@nursingconference.com
W: nursingeducation.nursingconference.com

Nutrition





15th International Conference on Clinical Nutrition
May 24-26, 2018 Vienna, Austria
E: clinicalnutrition@nutritionalconference.com
W: clinicalnutrition.conferenceseries.com

21st European Nutrition and Dietetics Conference
June 11-13, 2018 Dublin, Ireland
E: nutritioncongress@nutritionalconference.com
W: nutritionalconference.com/europe

14th International Congress on Advances in Natural Medicines, Nutraceuticals & Neurocognition
July 19-20, 2018 London, UK
E: nutraceuticals@nutritionalconference.com
W: nutraceuticals.pharmaceuticalconferences.com

6th International Conference on
Sports Nutrition & Fitness
August 16-17, 2018 Dublin, Ireland
E: sports-nutrition@annualconferences.org
W: sportsnutrition.nutritionalconference.com

17th World Congress on
Nutrition and Food Chemistry
September 13-15, 2018 London, UK
E: nutri-foodchemistry@nutritionalconference.com
W: nutrition-foodchemistry.conferenceseries.com

22nd European Nutritional Science Congress
November 26-27, 2018 Barcelona, Spain
E: nutritionalscience@nutritionalconference.com
W: nutritionalscience.nutritionalconference.com

Obesity





11th International Conference on
Childhood Obesity and Nutrition
March 15-16, 2018 Barcelona, Spain
E: childhoodobesity@annualconferences.org
W: childhoodobesity.conferenceseries.com

14th Euro Obesity and Endocrinology Congress
September 13-14, 2018 London, UK
E: euroobesity@obesityconference.org
W: obesity.nutritionalconference.com

Oncology & Cancer





12th World Hematologists Congress
March 15-16, 2018 London, UK
E: hematologists@oncologymeet.com
W: hematology.conferenceseries.com/europe

6th International Congress on
Gynecology & Gynecologic Oncology
July 23-24, 2018 Rome, Italy
E: gynecologyconference@annualconferences.org
W: gynecologyconference.annualcongress.com






29th Euro-Global Summit on
Cancer Therapy & Radiation Oncology
July 23-25, 2018 Rome, Italy
E: eurocancer@oncologyseries.com
W: cancer-radiationoncology.conferenceseries.com

28th Euro Congress on Cancer Science & Therapy
August 09-10, 2018 Madrid, Spain
E: cancerscience@oncologyseries.com
W: cancerscience.conferenceseries.com

4th World Congress on
Medical Imaging and Clinical Research
September 03-04, 2018 London, UK
E: medicalimaging@oncologyseries.com
W: clinical-medicalimaging.conferenceseries.com

4th International Congress on
Epigenetics and Chromatin
September 03-04, 2018 London, UK
E: epigenetics@oncologyseries.com
W: epigenetics.conferenceseries.com

3rd Cancer Diagnostics Conference & Expo
September 20-21, 2018 Berlin, Germany
E: cancerdiagnotics@oncologyseries.com
W: cancerdiagnostics.conferenceseries.com

36th World Cancer Conference
October 11-13, 2018 Zurich, Switzerland
E: worldcancer@annualconferences.org
W: cancer.global-summit.com

13th World Biomarkers Congress
November 29-30, 2018 Dublin, Ireland
E: worldbiomarkers@oncologyseries.com
W: molecular-cancer-biomarkers.conferenceseries.com

Ophthalmology





19th Ophthalmology Summit
Feb 26-27, 2018 Berlin Germany
E: ophthalmologysummit@ophthalmologyconferences.com
W: ophthalmologysummit.conferenceseries.com

3rd Global Pediatric Ophthalmology Congress
March 22-23, 2018 London, UK
E: pediatricophthalmology@ophthalmologyconferences.com
W: pediatricophthalmology.conferenceseries.com

2nd International Conference on
Cataract and Advanced Eye Care
June 14-16, 2018 Rome, Italy
E: cataract@ophthalmologyconferences.com
W: cataract.conferenceseries.com

2nd Global Meeting and Expo on
Vision Science & Eye
August 29-30, 2018 Zurich, Swizeland
E: visionscience@ophthalmologyconferences.com
W: visionscience.conferenceseries.com

3rd International Conference and Expo on
Optometry and Vision Science
October 8-9, 2018 Edinburg, Scotland
E: optometry@ophthalmologyconferences.com
W: optometry.conferenceseries.com

17th International Conference on
Clinical & Experimental Ophthalmology
October 1-3, 2018 Moscow, Russia
E: ophthalmology@ophthalmologyconferences.org
W: ophthalmology.conferenceseries.com

28th European Ophthalmology Congress
November 26-28, 2018 Dublin, Ireland
E: ophthalmologycongress@ophthalmologyconferences.com
W: ophthalmology.conferenceseries.com/europe

Pathology





13th International Conference on
Laboratory Medicine and Pathology
June 25-26, 2018 Berlin, Germany
E: laboratorymedicine@pathologyconferences.org
W: laboratorymedicine.conferenceseries.com

14th International Conference on
Surgical Pathology & Cancer Diagnosis
May 17-18, 2018 Rome, Italy
E: surgicalpathology@annualconferences.org
W: surgicalpathology.conferenceseries.com






8th European Conference on Predictive, Preventive, Personalized Medicine & Molecular Diagnostics
August 20-21, 2018 Rome, Italy
E: europersonalizedmedicine@confernceseries.net
W: personalizedmedicine.conferenceseries.com/europe

Pediatrics





3rd International Conference on Pediatric Surgery
May 7-8, 2018 Frankfurt, Germany
E: pediatricsurgery@annualconferences.org
W: pediatricsurgery.conferenceseries.com

17th International Conference on Clinical Pediatrics
June 14-16, 2018 Rome, Italy
E: clinicalpediatrics@pediatricsconferences.org
W: clinicalpediatrics.conferenceseries.com

Advances in Neonatal and Pediatric Nutrition
July 19-21, 2018 London, UK
E: neonatalnutrition@annualconferences.org
W: pediatricnutrition.pediatricsconference.com

20th International Conference on
Pediatrics Primary Care
September 03-04 2018 Zurich, Switzerland
E: pediatricprimarycare@annualconferences.org
W: primarycare.pediatricsconferences.com

18th International Conference on
Pediatrics Health
August 06-07, 2018 Madrid, Spain
E: pediatricshealth@annualconferences.org
W: health.pediatricsconferences.com

24th European Pediatrics Conference
September 10-12, 2018 Copenhagen, Denmark
E: europediatrics@pediatricsconferences.org
W: pediatrics.conferenceseries.com/europe

24th World Pediatrics Conference
October 18-20, 2018 Warsaw, Poland
E: worldpediatrics@annualconferences.org
W: worldpediatrics.pediatricsconferences.org




26th International Conference on
Neonatology and Perinatology
November 15-17 2018 Edinburgh, Scotland
E: neonatology@pediatricsconferences.com
W: neonatology.conferenceseries.com

Petroleum





9th International Conference and Expo on
Oil and Gas
August 9-10, 2018 Madrid, Spain
E: petroleum@oilgasconferences.org
W: oil-gas.conferenceseries.com

Physical Therapy & Rehabilitation





5th International Conference and Expo on
Novel Physiotherapies
March 19-20, 2018 Berlin, Germany
E: novelphysiotherapies@annualconferences.org
W: novelphysiotherapies.conferenceseries.com

6th International Conference & Exhibition on
Physiotherapy & Physical Rehabilitation
August 13-14, 2018 London, UK
E: physiotherapy@annualconferences.org
W: physiotherapy.annualcongress.com

Pharma





12th World Congress on
Pharmaceutical Sciences and Innovations in Pharma Industry
February 26- 27, 2018 London, UK
E: pharmaindustry@pharmaceuticalconferences.org
W: industry.pharmaceuticalconferences.com




16th International Conference and Exhibition on
Pharmaceutics & Novel Drug Delivery Systems
March 19-21, 2018 Berlin, Germany
E: pharmaceutica@pharmaceuticalconferences.org
W: novel-drugdelivery-systems.pharmaceuticalconferences.com

11th European Biosimilars Congress
April 26-27, 2018 Rome, Italy
E: eurobiosimilars@pharmaceuticalconferences.org
W: biosimilars-biologics.pharmaceuticalconferences.com/europe

15th Annual European Pharma Congress
May 07-09, 2018 Frankfurt, Germany
E: pharmaeurope@pharmaceuticalconferences.org
W: europe.pharmaceuticalconferences.com

4th World Congress and Exhibition on
Antibiotics and Antibiotic Resistance
June 14-15, 2018 Barcelona, Spain
E: antibiotics@pharmaceuticalconferences.org
W: antibiotics.pharmaceuticalconferences.com

9th International Conference and Exhibition on
Pharmacovigilance
June 21-22, 2018 London, UK
E: pharmacovigilance@pharmaceuticalconferences.org
W: pharmacovigilance.pharmaceuticalconferences.com

4th International Conference and Exhibition on
Natural Products, Medicinal Plants & Marine Drugs
June 11-12, 2018 Rome, Italy
E: naturalproducts@pharmaceuticalconferences.org
W: naturalproducts.pharmaceuticalconferences.com

16th International Conference and Exhibition on
Pharmaceutical Formulations
July 26-27, 2018 Rome, Italy
E: formulations@pharmaceuticalconferences.org
W: formulation.pharmaceuticalconferences.com

10th World Congress on Pharmacology
July 30-Aug 01, 2018 Barcelona, Spain
E: pharmacology@pharmaceuticalconferences.org
W: pharmacology.pharmaceuticalconferences.com

4th International Conference and Expo on
Drug Discovery, Designing & Development
September 06-07, 2018 London, UK
E: drugdiscovery@pharmaceuticalconferences.org
W: drug-discovery.pharmaceuticalconferences.com

6th International Conference on
Advanced Clinical Research and Clinical Trials
September 10-11, 2018 Zurich, Switzerland
E: clinicalresearch@pharmaceuticalconferences.org
W: clinicalresearch.pharmaceuticalconferences.com

18th World Pharma Congress
October 18-19, 2018 Warsaw, Poland
E: pharmacongress@pharmaceuticalconferences.org
W: world.pharmaceuticalconferences.com

18th Annual Pharmaceutical and Chemical Analysis Congress
November 05-06, 2018 Madrid, Spain
E: analysis@pharmaceuticalconferences.org
W: analysis.pharmaceuticalconferences.com

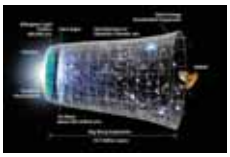
3rd International Conference on
Generics Drugs and Biosimilars
November 15-17, 2018 Frankfurt, Germany
E: genericpharma@pharmaceuticalconferences.org
W: generic-market.pharmaceuticalconferences.com

9th Global Experts Meeting on
Neuropharmacology
November 15-16, 2018 Frankfurt, Germany
E: neuro@pharmaceuticalconferences.org
W: neuro.pharmaceuticalconferences.com

23rd International Conference on
Pharmaceutical Biotechnology
December 10-11, 2018 Rome, Italy
E: pharmabiotech@pharmaceuticalconferences.org
W: biotech.pharmaceuticalconferences.com

Physics



3rd International Conference on Nuclear and Plasma Physics
June 07-08, 2018 London, UK
E: plasmaphysics@annualconferences.org
W: plasmaphysics.physicsmeeting.com

5th International Conference on
Theoretical and Applied Physics
July 02-03, 2018 Vienna, Austria
E: appliedphysics@annualconferences.org
W: appliedphysics.physicsmeeting.com






9th International Conference on
Optics, Photonics & Lasers
July 02-04, 2018 Berlin, Germany
E: eurooptics@annualconferences.org
W: optics.physicsmeeting.com

4th International Conference on
Condensed Matter and Materials Physics
August 16-17, 2018 London, UK
E: materialsphysics@annualconferences.org
W: materialsphysics.physicsmeeting.com

3rd International Conference on
Quantum Optics and Quantum Computing
September 10-11, 2018 London, UK
E: quantumoptics@annualconferences.org
W: quantumoptics.physicsmeeting.com

4th International Conference on Physics
September 17-18, 2018 Berlin, Germany
E: physics@physicsconferences.org
W: physics.conferenceseries.com

4th International Conference on
Quantum Physics and Quantum Technology
October 18-19, 2018 Rome, Italy
E: quantumphysics@physicsconferences.org
W: quantumphysics.conferenceseries.com

3rd International Conference on
Astronomy and Space Science
October 18-19, 2018 Rome, Italy
E: astrospace@physicsconferences.org
W: astronomy-space.physicsmeeting.com

3rd International Conference on
Magnetism and Magnetic Materials
October 22-23, 2018 Rome, Italy
E: magneticmaterials@annualconferences.org
W: magneticmaterials.physicsmeeting.com

4th International Conference on
High Energy & Particle Physics
December 03-04, 2018 Valencia, Spain
E: highenergy@physicsconferences.org
W: highenergyphysics.conferenceseries.com

Psychiatry



4th International Conference on
Mental Health & Human Resilience
April 26-27, 2018 Rome, Italy
E: mentalhealth@conferenceseries.net
W: mentalhealth.conferenceseries.com

4th International Conference on
Depression, Anxiety and Stress Management
May 10-11, 2018 Frankfurt, Germany
E: stress@psychiatrycongress.com
W: stressmanagement.global-summit.com

27th World Congress on
Psychiatry & Psychological Syndromes
June 21-23, 2018 London, UK
E: psychiatrycongress.com

28th Euro Congress on
Psychiatrists and Psychologists
July 05-06, 2018 Vienna, Austria
E: europsychiatry@psychiatrycongress.com
W: psychiatry.global-summit.com/europe

29th International Conference on
Psychiatry & Psychology Health
July 09-10, 2018 Paris, France
E: psychologyhealth@annualconferences.org
W: psychologyhealth.conferenceseries.com

33rd International Conference on
Adolescent Medicine & Child Psychology
Sep 04-05, 2018 Zurich, Switzerland
E: childpsychology@conferenceseries.net
W: childpsychology.conferenceseries.com

3rd International Congress on
Forensic Science and Psychology
October 22-23, 2018 Athens, Greece
E: forensiccongress@psychiatrycongress.com
W: forensic.conferenceseries.com



35th International Conference on
Psychiatry & Psychosomatic Medicine
November 01-03, 2018 Brussels, Belgium
E: psychosomaticmedicine@psychiatrycongress.com
W: psychosomatic.conferenceseries.com

Surgery





3rd International Conference on
Metabolic and Bariatric Surgery
March 15-16, 2018 Barcelona, Spain
E: bariatricsurgery@annualconferences.org
W: bariatricsurgery.conferenceseries.com

7th International Conference and Exhibition on Surgery
June 21-23, 2018 Dublin, Ireland
E: surgery@surgeryconferences.org
W: sugery.conferenceseries.com

3rd International Conference on Anesthesia
June 21-22, 2018 Dublin, Ireland
E: anesthesia@annualconferences.org
W: anesthesia.conferenceseries.com

13th International Conference on
Arthroplasty and Orthopedics
August 08-09, 2018 Rome, Italy
E: arthroplasty@annualconferences.org
W: orthopedics.surgeryconferences.com

8th International Conference and Expo on
Cosmetology, Trichology & Aesthetic Practices
August 13-14, 2018 Madrid, Spain
E: cosmetologycongress@surgeryconferences.org
W: cosmetology.surgeryconferences.com

World Congress on
Neurology and Neuromuscular Disorders
September 13-14, 2018 Frankfurt, Germany
E: neuromuscular@annualconferences.org
W: neuromuscular.neuroconferences.com

3rd European Otolaryngology-ENT Surgery Conference
October 08-10, 2018 London, UK
E: ent@surgeryconferences.org
W: ent.conferenceseries.com

2nd International Conference on
Craniofacial Surgery
October 08-09, 2018 London, UK
E: craniofacial@annualconferences.org
W: craniofacial.surgeryconferences.com

9th European Congress of Rheumatology,
Autoimmunity and Orthopedics
October 16-17, 2018 Warsaw, Poland
E: rheumatology@annualconferences.org
W: rheumatology.conferenceseries.com

Toxicology





15th Euro-Global Summit on
Toxicology and Applied Pharmacology
July 02-04, 2018 Berlin, Germany
E: eurotoxicology@annualconferences.org
W: toxicology.global-summit.com/europe

16th Annual Meeting on
Environmental Toxicology and Life Sciences
August 13-14, 2018 London, UK
E: euroenvitox@annualconferences.org
W: environmentaltoxicology.toxicologyconferences.com

Vaccines





29th International Conference on
Vaccines and Immunization
March 19-20, 2018 London, UK
E: vaccinessummit@immunologyconferences.org
W: vaccines-immunization.conferenceseries.com

31st Euro Global Summit and Expo on
Vaccines & Vaccination
June 14-16, 2018 Barcelona, Spain
E: eurovaccines@vaccineconference.com
W: europe.vaccineconferences.com












7th International Conference and Exhibition on

Cell and Gene Therapy

March 15-16, 2018 | London, UK

Exhibitors

Cell Therapy 2018



Exhibitor

Precision NanoSystems

Precision NanoSystems' proprietary NanoAssemblr™ Platform enables the rapid and controlled manufacture of nanomedicines (liposomes, lipid nanoparticles, polymeric nanoparticles). It enables controlled, bottom-up, molecular self-assembly of nanoparticles via custom-engineered microfluidic mixing cartridges that allow millisecond mixing of nanoparticle components at the nanolitre scale. Rapid mixing on a small scale allows reproducible control over particle synthesis. The NanoAssemblr Platform solves significant issues associated with incumbent nanoparticle manufacturing such as tuning for size. The platform is ideally suited for nanoparticle research and nucleic acid delivery to primary cells

The microfluidic approach to nanoparticle research and synthesis is at the heart of the NanoAssemblr Platform. Users can control size by process and composition, and adjust parameters such as mixing ratio, flow rate and lipid composition in order to fine-tune nanoparticle size, encapsulation efficiency and much more. The system's technology enables nanoparticle manufacturing scale-up through microfluidic reactor parallelization similar to the arraying of transistors on an integrated chip. Superior design ensures that the platform is fast and easy to use with a software controlled manufacturing process. This usability allows for the simplified transfer of manufacturing protocols between sites, which accelerates clinical development, reduces waste and ultimately saves money

Exhibitor

BECKMAN COULTER

Beckman Coulter develops, manufactures and markets products that simplify, automate and innovate complex biomedical testing. Our products are making a difference in people's lives by improving the productivity of medical professionals and scientists, supplying critical information for improving patient health and delivering trusted solutions for research and discovery.

At Beckman Coulter, we are dedicated to advancing and optimizing the laboratory. For more than 80 years, we have been a trusted partner for laboratory professionals, helping to advance scientific research and patient care. We have a vital role: our focus on innovation, reliability and efficiency has led us to become the partner of choice for clinical, research and industrial customers around the globe.

In the life sciences, researchers use Beckman Coulter's precision instruments to study complex biological problems, including causes of disease and potential new treatments. Our team of experts dedicates the time and energy to understand the complexity of research for laboratory customers in a wide variety of settings: universities, government, biotechnology and pharmaceutical companies, hospitals, and commercial laboratories. By innovating new processes and technologies, we're challenging conventional wisdom; our goal is to develop the best, most widely trusted laboratory solutions available on the market today.

More than 275,000 Beckman Coulter systems operate in both Diagnostics and Life Sciences laboratories around the world







7th International Conference and Exhibition on

Cell and Gene Therapy

March 15-16, 2018 | London, UK

Keynote Forum

Day 1

Shuying Yang, J Stem Cell Res Ther 2018, Volume 8
DOI: 10.4172/2157-7633-C1-031

7th International Conference and Exhibition on

Cell and Gene Therapy

March 15-16, 2018 | London, UK



Shuying Yang

University of Pennsylvania, USA

Stem cell therapy: Bone regeneration for critical size bone defects

Critical-sized bone defects (CSBDs) are wounds that cannot be spontaneously bridged and results in the formation of fibrous connective tissue rather than bone when left untreated. Clinical therapies of CSBDs represent a great challenge for orthopedic and craniomaxillofacial surgeons, because current treatments rely on grafting materials such as autografts, allografts, or xenografts. However, recent advancements in stem cell based bone repair and regeneration have shown great promise in animal models and clinical studies. In this talk, the speaker will report her lab findings including using new injectable and moldable nano calcium sulfate scaffolds (nCS), and growth factor conjugated controllably released fibrin gel system to deliver mesenchymal stem cells, endothelial progenitor cells, genes, growth factors and PRP (Platelet rich plasma) for promoting angiogenesis and bone regeneration in critical sized bone defect models.

Recent Publications

1. Liu Z et al. (2017) The combination of nano-calcium sulfate/platelet rich plasma gel scaffold with BMP2 gene- modified mesenchymal stem cells promotes bone regeneration in rat critical-sized calvarial defects. Stem Cell Res Ther. 8(1):122.
2. Fernandes G and Yang S (2016) Application of platelet-rich plasma with stem cells in bone and periodontal tissue engineering. Bone Res. 4:16036.
3. Yuan X et al. (2016) Hybrid biomaterial with conjugated growth factors and mesenchymal stem cells for ectopic bone formation. Tissue Eng Part A. (13-14):928-939.
4. Fernandes G, Wang C, Yuan X, Liu Z, Dziak R and Yang S (2016) Combination of controlled release platelet-rich plasma alginate beads and bone morphogenetic protein-2 genetically modified mesenchymal stem cells for bone regeneration. J Periodontol. 87(4):470-80.
5. He X et al. (2013) BMP2 genetically engineered MSCs and EPCs promote vascularized bone regeneration in rat critical-sized calvarial bone defects. PLoS One. 8(4):e60473.

Biography

Shuying Yang is an Associate Professor in the Department of Anatomy & Cell Biology, Penn Dental School - University of Pennsylvania, USA. She received her MD and PhD in China, and then completed Postdoctoral Fellowships in Bone Biology at the University of Michigan, USA and later The Forsyth Institute & Harvard School of Dental Medicine, USA. She joined the Department of Oral Biology in The State University of New York, Buffalo campus in 2008 as an Assistant Professor and then became a Tenured Associate Professor in 2014. She is an author of over 50 papers published in international journals including Nature Communication, Cell Death & Differentiation, JBMR, Human Molecular Genetics, a reviewer for numerous journals and NIH and other study sections and Editorial Board Member of several journals. She has pursued innovative research on the mechanisms of bone formation and resorption, including craniofacial and bone development, metabolism and mechanostransduction and stem cell-mediated bone regeneration.

shuyingy@upenn.edu

Paul von Hoegen, J Stem Cell Res Ther 2018, Volume 8
DOI: 10.4172/2157-7633-C1-031

7th International Conference and Exhibition on

Cell and Gene Therapy

March 15-16, 2018 | London, UK



Paul von Hoegen

CTL Europe GmbH, Germany

Assessing cytokine signatures and cytolytic potential for T cells and NK cells used for immune therapy

Cancer and infectious diseases can be treated by enhancing immune surveillance. Suitable immune therapies can rely on in vitro expansion of the reactive lymphocytes through cell line development, e.g. the expansion and activation of natural killer cells, or of antigen-specific T cells for T cell therapy. Gene therapy is suited for the induction or enhancement of immunity to cancer and infectious agents via vaccination, or the generation of chimeric antigen receptor (CAR)-T cells. All these immune therapeutic measures have in common the induction and expansion of rare effector cell types, along with gearing these cells towards the desired effector functions. Therefore, measurements of frequencies and functions of the specific effector cells are key for judging therapeutic potentials. The talk will focus on a technology that permits to do this by multiplex ImmonoSpot® measurements, establishing the cytokine signatures and cytolytic potential of antigen-specific T cells and NK cells. This technology has been validated for immune monitoring in clinical trials and also lends itself for batch testing of cells to be injected for cell therapy.

Biography

Paul von Hoegen is Senior Director Business Development at CTL Europe. Before, he was leading the European science based business development for JPT Peptide Technologies. He managed Biotechnology and Biobanking projects at the Weinberg Group in Brussels (Belgium) and served as Scientific Leader in several biotechnology companies (Biovector Therapeutics, Pharmexa and Europroteome) working in Immunology and vaccine development for infectious diseases and cancer. He studied Biology at the University of Cologne, Germany, and obtained his PhD in Immunology at the University of Heidelberg, Germany. He worked at the Stanford University and SyStemix, USA and headed a Junior Group in Cancer Vaccination at the German Cancer Centre Heidelberg, Germany. In 1995, he joined GSK Biologiclas where he headed the Cellular Immunology Group and initiated several therapeutic vaccine projects. He is the author and co-author of numerous publications and has been involved in multiple R&D collaboration projects.

Paul.vonHoegen@immuospot.eu

Katarina Stroffekova, J Stem Cell Res Ther 2018, Volume 8
DOI: 10.4172/2157-7633-C1-031



Katarina Stroffekova
Pavol Jozef Šafárik University, Slovakia

Photobiomodulation affects mitochondria morphogenesis and function

The world's population is gradually aging. At the biological level, aging leads to the accumulation of a wide variety of molecular and cellular damage, and consequently to an increased cardiovascular and neurodegenerative diseases incidence. Most neurodegenerations are associated with a progressive neuron loss and their treatments focus on slowing down the progress of disease and to alleviate the symptoms. Thus, any additional neuroprotective and neuroregenerative approaches to the classical ones will have great socio-economic impact. Increasing number of studies show that impaired mitochondrial function and dynamics play crucial roles in aging and pathogenesis of neurodegenerative diseases such as Parkinson (PD), Alzheimer (AD), and Huntington disease (HD). Photobiomodulation (PBM) represents a very promising therapeutic approach that can improve mitochondria functionality, however, PBM mechanism of action are complex and not well understood. PBM effects are observed at the cellular and systemic level. In our study, we have focused on the acute PBM effects at the direct cellular level in control and rotenone challenged cells (PD model) with respect on mitochondria morphogenesis, cell viability and metabolism. Our results indicate that PBM effects depend on irradiation wavelength and dose. In both, control and rotenone challenged cells, we observed that PBM treatment resulted in significant increase in mitochondria fusion with corresponding improvement in mitochondria function. Thus, our data indicates that PBM has the potential to improve challenged mitochondria function.

Biography

Katarina Stroffekova received her PhD in 1997 from Institute of Molecular Physiology and Genetics SAS, Bratislava, Slovakia. She continued her Post-doctoral studies in USA at University of Cincinnati, Ohio and at Colorado State University, USA. She is an Associate Professor at the Department of Biophysics, PJ Safarik University in Košice, Slovakia. She has published more than 19 peer reviewed articles and had more than 30 presentations at international conferences worldwide. She is a Member of the Biophysical Society, USA and Slovak Biophysocal Society, and has been serving as an Editorial Board Member of *General Physiology and Biophysics*.

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Michał Pikuła, J Stem Cell Res Ther 2018, Volume 8
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Michał Pikuła
Medical University of Gdansk, Poland

In-vitro expanded human adipose-derived stem cells as a model for drug testing and tissue engineering tool

Adipose-derived stem cells (ASCs) are of great therapeutic potential, owing to their vast biological activity. These cells exhibit immunomodulatory, immunosuppressive, pro-angiogenic and pro-regenerative activities. The mechanism of their action is based on the production of various compounds, exosomes, as well as direct influence on other cells. Our research revealed that ASCs may be successfully isolated from plastic and oncological patients. Simultaneously, the immunophenotypic analysis of ASCs showed no difference between these two groups of patients. Due to relatively fast proliferation, ASCs can be easily expanded for pre-clinical and clinical trials. These cells express specific markers of mesenchymal stem cells such as: CD73, CD90, CD105 and no/low expression of CD45, CD19, CD11, CD14. ASCs undergo strong activation in in vitro conditions; however, this process depends on the microenvironment and may be influenced by several factors including potential drugs. In our study, the compounds with pro-regenerative properties increase the expression of antigens such as CD34 and decrease the expression of CD105 and CXCR4. However, significant donor-to-donor variabilities of cells in response to pro-regenerative compounds appear. Therefore, we should aim to increase the number of patients-donors in order to obtain reliable results. In conclusion, ASCs constitute a promising pre-clinical model for the assessment of the activity of potential drugs.

Biography

Michał Pikuła is an Associate Professor at the Department of Clinical Immunology and Transplantology, Medical University of Gdansk, Poland. He received his MSc Degree from University of Gdansk (Molecular Biology, 2003), MPharm from Medical University of Gdansk (Pharmacy Practice, 2005), and his PhD Degree from Medical University of Gdansk (Medical Biology, 2007). He is currently responsible for several projects focused on Experimental Immunology, Tissue Engineering and Regenerative Medicine.

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7th International Conference and Exhibition on

Cell and Gene Therapy

March 15-16, 2018 | London, UK

Scientific Tracks & Abstracts

Day 1

Cell Therapy 2018

Sessions:

Cell Therapy | Gene Therapy | Cell Culture and Bioprocessing | Clinical Trials on Cell & Gene Therapy | Cell Science and Stem Cell Research | Tissue Science & Regenerative Medicine

Session Chair
Shalini Gupta
King George's Medical University, India

Session Introduction

Title: **ZSCAN10 transcription factor regulates glutathione pathway multimodally**
Maria Skamagki, Memorial Sloan Kettering Cancer Center, USA

Title: **Ethical issues in cell and gene therapy using CRISPR/Cas9 system**
Yuan-Chuan Chen, National Applied Research Laboratories, Taiwan

Title: **Association between NAT- 1 and NAT- 2 and risk of oral pre cancer and cancer in North India**
Shalini Gupta, King George's Medical University, India

Title: **p63 silencing overcomes barriers to human cardiac cellular reprogramming**
Todd K Rosengart, Baylor College of Medicine, USA

Title: **Graphene based nanomaterials for cancer therapy**
A. Yilmazer, AnkaraUniversity, Turkey

Title: **Genetically encoded tools applying in phenotyping and toxicity test**
Yu-Fen Chang, LumiSTAR biotechnology, Taiwan

Maria Skamagki, J Stem Cell Res Ther 2018, Volume 8
DOI: 10.4172/2157-7633-C1-032

ZSCAN10 transcription factor regulates glutathione pathway multimodally

Maria Skamagki
Memorial Sloan Kettering Cancer Center, USA

Induced pluripotent stem cells (iPSC), which are generated from a patient's own cells and used to produce transplantable tissues, may particularly benefit older patients who are more likely to suffer from degenerative diseases. However, iPSC generated from aged donors (A-iPSC) exhibit higher genomic instability, defects in apoptosis, and a blunted DNA damage response compared to iPSC generated from younger donors (Y-iPSC). This raises significant safety concerns, as transplantable tissues produced from A-iPSC may be functionally impaired and carry a higher risk of cancer development. When we consider the complex genomic and epigenetic variations that occur during aging, genomic instability in A-iPSC is likely caused by multiple mechanisms. We describe the discovery of mechanisms that contribute to A-iPSC genomic instability. We demonstrated that A-iPSC exhibit excessive glutathione-mediated reactive oxygen species (ROS) scavenging activity, which blocks the DNA damage response and apoptosis and permits survival of cells with genomic instability. We found that the pluripotency factor ZSCAN10 is poorly expressed in A-iPSC and addition of ZSCAN10 to the four Yamanaka factors (OCT4, SOX2, KLF4, and c-MYC) during A-iPSC reprogramming normalizes ROS/glutathione homeostasis and the DNA damage response and recovers genomic stability. We have shown that ZSCAN10 regulates glutathione-ROS homeostasis in at least three ways: (1) direct transcriptional regulation of GSS and de novo synthesis of glutathione (2) indirect regulation of GPX2 degradation though regulation of core RNA exosome subunits and (3) and by regulating oxidative phosphorylation through Glut3.

Biography

Maria Skamagki has completed her PhD from Cambridge University, UK and Post-doctoral studies at Memorial Sloan-Kettering Cancer Center, Sloan-Kettering Institute for Cancer Research, New York.

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Yuan-Chuan Chen et al., J Stem Cell Res Ther 2018, Volume 8
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Ethical issues in cell and gene therapy using CRISPR/Cas9 system

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National Applied Research Laboratories, Taiwan

The CRISPR/Cas9 system has revived many safety issues regarding organisms and living systems such as environmental pollution, ecological calamity, risk assessment and genome editing in germline. The new concern is the simplicity, rapidity, accuracy and economics of CRISPR/Cas9 for cell and gene therapies, with the possibility of ethical issues. These issues may include balance of benefits and risks, compatibility of private interests and the public good, random manipulation of genes, and commercialization of human therapy. CRISPR/Cas9 has multiple advantageous applications, but hazards are unavoidable. A scientific evaluation system is needed to assure that benefits are greater than risks. There have been many disputes and frictions among companies over patenting CRISPR/Cas9 for human therapy because many commericial interests are involved. An agreement to regulate patent holders and licensees to consider the public goods is required. Altering a gene may produce new or undesired species, and lead to unknown or unpredictable diseases. The use of CRISPR/Cas9 in gene editing should be deliberately evaluated and strictly controlled, especially in human germline. CRISPR/Cas9 has been demonstrated, promising many disease treatments; however, cell and gene therapies usually require a long course of treatment and cost much. The therapy should be affordable for all patients. Ethics should never be a barrier to science, but allow it to develop in the long-term. It is necessary to have public opinion over the social, legal and ethical implications with the policy/regulatory needs of the system.

Biography

Yuan-Chuan Chen completed his PhD in Biochemistry at the University of California, Berkeley, USA in 2015 and Postdoctoral studies at the Taiwan Food and Drug Administration (TFDA) from 2015 to 2017. He has published 12 co-authored articles in peer-reviewed journals and three chapters in three reputed books, including the fields of basic science, biomedicine, and related policy/regulation. He is now an Assistant Researcher at the National Applied Research Laboratories (NARL), Taiwan. His research focuses on the perspectives and challenges of cell and gene therapy based on gene editing technologies such as the CRISPR/Cas9 system.

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Shalini Gupta, J Stem Cell Res Ther 2018, Volume 8
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Association between NAT1 and NAT2 and risk of oral pre-cancer and cancer in North India

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King George's Medical University, India

Background: Two N-acetyltransferase isozymes, NAT1 and NAT2, are polymorphic and catalyze both N-acetylation (usually deactivation) and O-acetylation (usually activation) of aromatic and heterocyclic amine carcinogens.

Objective: To evaluate the association of NAT1 and NAT2 polymorphisms and its susceptibility in oral cancer patients in North Indian population.

Methods: A total of 250 patients with oral cancer and 250 healthy volunteers were genotyped for the NAT1 and NAT2 polymorphism. Genotypes were identified by polymerase chain reaction (PCR) and restriction fragment length polymorphism (RFLP). Genotype frequencies were evaluated by Chi-square test, odds ratio (OR) and relative risk (RR).

Result: NAT 1 and NAT2 polymorphism was significantly associated with oral cancer patients as compared to healthy volunteers.

Conclusion: We conclude that the NAT1 and NAT2 polymorphism is significantly associated with oral cancer.

Biography

Shalini Gupta is the Associate Professor, Department of Oral Pathology & Microbiology, King Georges Medical University, Lucknow, India. She had University Merit Scholarship and got fourteen Gold Medals. She has involved with various research projects & reviewer in various journals. She has written two books and published around 50 papers in reputed journals and serving as an editorial member of many reputed journals

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Todd K Rosengart, J Stem Cell Res Ther 2018, Volume 8
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p63 silencing overcomes barriers to human cardiac cellular reprogramming

Todd K Rosengart
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Congestive heart failure (CHF) typically occurring as a result of myocardial infarction (MI) is the leading cause of cardiac mortality in the West. Recent CHF treatment research strategies have focused on exogenous stem cell administration to replenish cardiomyocytes in myocardial infarct zones and thereby enhance cardiac function, but the results of stem cell trials have largely been disappointing; likely due to inadequate implant phenotypes and/or poor implant survival and integration into the host myocardium. Despite some evidence of limited endogenous myocyte replication or regeneration from resident stem cells, native adult cardiac muscle does not effectively regenerate itself *de novo* after cardiomyocyte death. Strategies have therefore been devised which administer exogenous stem cells or reserve cells (e.g., embryonic stem cells, mesenchymal stem cells or skeletal myoblasts) into the infarct zone to enhance cardiac function. The seminal finding, that cellular reprogramming strategies could be used to produce induced pluripotent stem (iPS) cells from adult somatic cells was soon followed by findings of several groups that iPS cells could be re-differentiated into cells with a cardiomyocyte-like phenotype. The more recent discovery that "cardio-differentiating" transcription factors (e.g., GATA4, MEF2C and TBX5 ["GMT"]) generate "induced cardiomyocyte-like" (iCM) cells directly from somatic cells suggests that in situ cardiomyocyte regeneration could be used to completely bypass stem cell or (potentially immunogenic and/or tumorigenic) iPS staging. Notably, cellular reprogramming has been shown to significantly improve cardiac function in rodent MI models, yielding up to 30% increase in ventricular function. Low reprogramming efficiency in human cells remains, however, as a challenge to this new field. Given evidence that the resistance of human cells to reprogramming might be related to restraints on the cell "plasticity" of higher-order species, and given that the *p53* family of genes appears to modulate such plasticity in induced pluripotent stem (iPS) cells, we have demonstrated that *p53* downregulation enhances rodent cardiac fibroblast reprogramming into iCMs. Given the association of *p53* mutations with human neoplasm, we refocused these investigations onto the *p53* family member *p63*, which has been shown to have "anti-plasticity" effects similar to *p53* in iPS models, but which possesses a negligible human oncogenic profile compared to *p53*. We have now shown that *p63* silencing is even more effective than *p53* downregulation in enhancing fibroblast transdifferentiation into iCMs, and that the combined administration of the cardio-differentiating factors Hand2 and Myocardin with *p63* silencing induces iCM contractility in vitro. We have now also demonstrated that shRNA-mediated downregulation of *p63* induces up to a 40-fold increase in expression of the cardiomyocyte marker cTnT in cardiac fibroblasts harvested from CHF patients compared to "classic" reprogramming with Gata4, Mef2c, and Tbx5. Taken together, these data suggest that cellular reprogramming may represent an encouraging new approach to treatment of post-infarct cardiomyopathy, and that *p63* silencing may be a compelling strategy for overcoming the resistances of human cells to reprogramming.

Biography

Todd K Rosengart is Professor and Chairman of the Michael E DeBakey Department of Surgery at Baylor College of Medicine (BCM). He also holds the DeBakey-Bard Chair of Surgery, and is Professor of Heart and Vascular Disease at the Texas Heart Institute. Amongst other institutional roles, he is Board Chairman of the Affiliated Medical Services, a 1000-Provider Medical Services Consortium of BCM and University of Texas Faculty for the Harris Health County Medical System, Vice-Chair of the BCM Faculty Group Practice, overseeing its 350-provider BCM Private Clinical Faculty, and he serves on the Joint Venture Board of Baylor St Luke's Medical Center. He also recently served as National Chairman of the CHI Cardiothoracic Surgery Clinical Standards Committee, with oversight of cardiovascular surgery activities for 20 institutions performing cardiac surgery as members of CHI, a national non-profit organization with 120 member hospitals.

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A. Yilmazer, J Stem Cell Res Ther 2018, Volume 8
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Graphene based nanomaterials for cancer therapy

A. Yilmazer
AnkaraUniversity, Turkey

Graphene, a two-dimensional, single-layer sheet of sp^2 hybridized carbon atoms, carbon-based material with physical properties such as electronic conductivity, thermal stability, mechanical strength. There are different forms of grapheme including graphene oxide (GO). Different forms can be easily processed and functionalized. These functionalized forms can have different interactions with biological structures. Graphene based materials have different applications in the biomedical field, one of which is cancer therapy. This talk will summarize various studies involving graphene based materials in cancer research. Specific focus will be placed on photocatalytic and photodynamic therapies involving graphene derivatives. Furthermore, the importance of using 2-dimensional or 3-dimensional cultures in these graphene based cancer therapy protocols will be discussed in detail.

Biography

A Yilmazer is working as an Assistant Professor in the Biomedical Engineering Department of Ankara University. She has been the Vice Director of the Stem Cell Institute of Ankara University since December 2016. She completed her MSc degree in Cancer Immunotherapy from the University of Nottingham (UK) and obtained her PhD in the Nanomedicine Lab based in the School of Pharmacy, University College London. She has published papers on nanomedicine, cancer therapy and cellular reprogramming in various distinguished journals.

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Yu-Fen Chang et al., J Stem Cell Res Ther 2018, Volume 8
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Genetically encoded tools applying in phenotyping and toxicity test

Yu-Fen Chang[1, 3], **Jiahui Wu**[2], **Qian Yong**[2], **Frances Brook**[1], **Matthew Daniels**[1] and **Robert Campbell**[2]
[1]University of Oxford, UK
[2]University of Alberta, Canada
[3]LumiSTAR Biotechnology, Inc., Taiwan

Induced pluripotent stem cell (iPSC) models hold great promise for disease modeling and drug discovery. Genetically encoded light emitting reporters offer the prospect of multichannel resolution of events within subcellular compartments. The endoplasmic reticulum (ER) contains a major intracellular store of calcium ions (Ca^{2+}). Cyclical emptying and refilling of the ER is required for many aspects of life, from the release of insulin to the beat of the heart. ER Ca^{2+} concentrations can be 1000 fold higher than the cytoplasm making this process difficult to directly study with existing probes or dyes which saturate at lower Ca^{2+} concentrations. In heart cells, the ER is known as the sarcoplasmic reticulum (SR). The SR is the predominant source of the amplifying Ca^{2+} induced Ca^{2+} release (CICR) that enables the small membrane localized voltage dependent Ca^{2+} entry event to lead to myofilament contraction. Contraction is inevitably associated with micrometer scale motion of the SR, and hence, ratiometric (as opposed to intensiometric) imaging approaches are necessary to correct for movement artefacts. Here, we report development of a series of ratiometric and non-ratiometric low affinity red fluorescent Ca^{2+} indicators targeted to the ER/SR and demonstrate their application in cultured cardiomyocytes. We shall also demonstrate combing use of optogenetic tool with red shift calcium indicators, R-GECO or K-GECO, in cardiac toxicity test and drug screening.

Biography

Yu-Fen Chang has completed her PhD from Life Science in Hokkaido University and been awarded the Japanese Society for Promotion of Science (JSPS) fellowship . She has finished postdoctoral studies from Radcliffe Department of Medicine in University of Oxford and published more than 25 papers in reputed journals. She currently is the research director of LumiSTAR biotechnology, Inc.

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Notes:







7th International Conference and Exhibition on

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Keynote Forum

Day 2

Nassim Abi Chahine, J Stem Cell Res Ther 2018, Volume 8
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7th International Conference and Exhibition on

Cell and Gene Therapy

March 15-16, 2018 | London, UK



Nassim Abi Chahine

ACE Cells Lab Ltd, UK

The Regentime® technique in stem cell therapy: A gate to immortality

As people are living longer, they are more likely to acquire chronic diseases or develop age-related conditions. Globally, there is an increasing incidence of chronic and degenerative diseases. In the Declaration of Helsinki (DoH), innovative therapy has a sacred place in the advancement of medicine, and the role of the scientists diffusing the good information has been blessed since days of Hippocrates. Since the first decade of the 21st century, a widespread group of stem cell scientists lead a marvellous innovation in medicine, but also a tough confrontation on some sides. We aim to show the good part of this new sector and that our work has its transparent purpose; accelerating the process of knowledge about regeneration. Looking for a more satisfying solution at all medical levels, we at ACE Cells Lab the Regentime® developed a procedure which is based on the transplantation of proliferated partially differentiated and specifically redirected autologous adult bone marrow derived mononuclear progenitor stem cells. After nine years of devotion for regenerative medicine based on technique development, academic lecturing, and conferencing, we tend to emphasize the importance of stem cells as a biological noble tool in our war against diseases today. This presentation will review, discuss, and analyze the latest in the stem cell field; all into a homogenous corpus serving the new generation of medics, enlightening the way for a better health. At the end, we will expose the results of different research therapies in a realistic figure facilitating physicians to choose the best stem cell therapeutic methods, making the expected result clearer.

Biography

Nassim Abi Chahine is a Lebanese Neurosurgeon, with a Polish Medical Doctorate. In 2008, he was the first in his region to start research, development and application of bone marrow autografts. He created a wide series of stem cell therapeutic protocols, and in 2014, he finalized his Regentime® procedure based on the transplantation of proliferated, partially differentiated and specifically redirected autologous bone marrow derived mononuclear progenitor stem cells. Regentime® is mostly known to be a safe technique for different organ regeneration, based on "as soon as better concept" with its famous equation to estimate the percentage of biological improvement. He treats non-responsive to conventional medicine hopeless cases, pioneering the field of Regeneration in the Middle East and Neuroregeneration worldwide. He is based in the United Kingdom and his State of the Art Stem Cell and Cell Product Research Lab is amongst one of the best CPD accredited laboratories in 2017.

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7th International Conference and Exhibition on

Cell and Gene Therapy

March 15-16, 2018 | London, UK



Paolo Madeddu
University of Bristol, UK

Novel gene therapy approaches for the treatment of diabetic cardiomyopathy

A common form of cardiomyopathy directly related to diabetes mellitus (DM), i.e., diabetic cardiomyopathy, typically progresses from diastolic dysfunction to heart failure in the absence of coronary artery disease or hypertension. Studies in animal models illustrate the complexity of the underpinning pathogenic mechanisms. Hence, a deeper understanding of targets for early therapeutic interventions is critically needed. Here, we report a series of studies highlighting the potential of AAV-mediated systemic gene therapy for the treatment of diabetic cardiomyopathy. We describe two major approaches, the first based on the restoration of selected molecular deficits centered on the neurotrophin/Akt/Pim1 axis and the second on the transfer of gene products conferring extended healthy phenotype in ageing individuals. These new findings may pave the way to novel treatment of cardiac disease in diabetic patients.

Biography

Paolo Madeddu is the Chair of Experimental Cardiovascular Medicine at Bristol University. He obtained an MD and Specialty in Cardiology, at Sassari University, Italy. He has an international reputation in the field of Cardiovascular Regenerative Medicine. He is the author of 414 publications referenced in Web of Science with a citation index of 43. He is the Editor-in-Chief of *Frontiers in Cardiovascular and Regenerative Medicine*, Associate Editor *Circulation Research, ATVB, PLOS One, Scientific Reports and Regenerative Medicine*. He is also the Advisory Board Member for ReNeuron and Multimedica Research Institute (Milan, Italy).

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7th International Conference and Exhibition on

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Scientific Tracks & Abstracts

Day 2

Cell Therapy 2018

Sessions:

Gene and Cell Therapy for Rare & Common Diseases | Cell Therapy of Cardiovascular Disorders Nano Therapy | Viral Gene Therapy | Stem Cell Therapies

Session Chair
Shalini Gupta
King George's Medical University, India

Session Introduction

Title: **Determinates of cell therapy efficacy for tissue and organ repair**
Williams J K, Wake Forest School of Medicine, USA

Title: **Plant virus nanoparticles: new applications for developing countries**
Kathleen Hefferon, Cornell University, USA

Title: **Novel anti-cancer binary system activated by bacteriophage HK022 integrase**
Amer Elias, Tel-Aviv University, Israel

Title: **The effectivity of novel mesenchymal stem cell therapy in graft-versus-host disease**
E Molnar, Hungarian National Blood Transfusion Service, Hungary

Title: **The most common genetic disease in Hail and diseases related to consanguinity**
Kholoud Mokhtar Al-Azmi, University of Hail, KSA

Title: **SenezRedTM vital fluorescence probe for detecting mesenchymal stem cell senescence**
Joshur Ang, Agency for Science, Technology and Research (A*STAR), Singapore

Title: **Evolution of recombinant adeno-associated viral vectors for application in ocular gene therapy**
Anand David, University of Bern, Switzerland

Williams J K et al., J Stem Cell Res Ther 2018, Volume 8
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Determinates of cell therapy efficacy for tissue and organ repair

Williams J K, Dean A, Lankford S, Andersson K E
Wake Forest School of Medicine, USA

It is not unusual for animal models of disease to inaccurately predict the outcome of clinical studies. One such example is stem cell therapy for stress urinary incontinence (SUI), where preclinical studies report almost complete remission of symptoms, whereas clinical studies report only around 50% remission in 50% of patients. The answer is most likely explained because animal models (which create acute SUI in relatively young animals) do not represent the most common clinical scenario where SUI is most common as a chronic disease in peri/post-menopausal women with co-existing risk factors such as obesity and type-2 diabetes. To better predict the effects of cell therapy for UI, we developed a cynomolgus monkey model of urinary incontinence (surgical nerve and muscle damage to the urinary sphincter complex) that reproduces the functional and structural changes in the urinary sphincter complex seen in women with clinical SUI. In these studies, we modeled both acute and chronic SUI in younger and older female NHPs with varying degrees of estrogen deficiencies and impaired glucose/insulin metabolism. With an n=6/experimental group, autologous skeletal muscle precursor cells (skMPCs) were isolated from a muscle biopsy, expanded to five million cells and injected directly into the urinary sphincter complex of NHPs with SUI. skMPCs almost completely restored sphincter muscle content and urethral pressures in younger (5–8years) NHPs ($p<0.05$ vs. SUI/no treatment), but not older (15–28 years) NHPs ($p>0.05$ vs. SUI). This same pattern of efficacy was observed in NHPs with acute vs. chronic SUI, in intact vs. ovariectomized NHPs; in normal cycling dominant NHPs vs. dysmenorrheic subordinate NHPs and in normal weight/normal glucose metabolism vs. heavier impaired glucose/insulin ratio NHPs. Thus, there are multiple determinants of cell therapy efficacy that can be modeled in NHPs and are critical to translational applicability of regenerative medicine approaches to tissue repair.

Recent Publications:

1. Williams J K, Dean A, Lankford S, Criswell T, Badlani G, et al. (2017) Determinates of muscle precursor cell therapy efficacy in a nonhuman primate model of intrinsic urinary sphincter deficiency. Stem Cells Transl Med 8(1):1.
2. Williams J K, Dean A, Badra S, Lankford S, Poppante K, et al. (2016) Cell versus chemokine therapy in a nonhuman primate model of chronic intrinsic urinary sphincter deficiency. J Urol. 196(6):1809–1815.
3. Williams J K, Badlani G, Dean A, Lankford S, Poppante K, et al. (2016) Local versus intravenous injections of skeletal muscle precursor cells in nonhuman primates with acute or chronic intrinsic urinary sphincter deficiency. Stem Cell Res Ther. 7(1):147.
4. Williams J K, Andersson K-E (2016) Regenerative pharmacology: recent developments and future perspectives. Regenerative Medicine 11(8)859–870.
5. Williams J K, Eckman D, Dean A, Moradi M, Allickson J, et al. (2015) The dose-effect safety profile of skeletal muscle precursor cell therapy in a dog model of intrinsic urinary sphincter deficiency. Stem Cells Transl Med. 4(3):286–94.

Biography

Williams J K has been at Wake Forest University for 30 years, during which he focused on women's health. While now a Faculty Member of Regenerative Medicine, his past research focused on the use of animal models to explore the effects of aging and sex hormones on the cardiovascular and urogenital systems. His research at the Wake Forest Institute for Regenerative Medicine (WFIRM) on women's health was funded for four years and is now funded for an additional four years to explore the utility of cell therapy for urinary incontinence, using nonhuman primates as the animal model.

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Kathleen Hefferon, J Stem Cell Res Ther 2018, Volume 8
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Plant virus nanoparticles: New applications for developing countries

Kathleen Hefferon
Cornell University, USA

For over two decades now, plants have been explored for their potential to act as production platforms for biopharmaceuticals, such as vaccines and monoclonal antibodies. Without a doubt, the development of plant viruses as expression vectors for pharmaceutical production have played an integral role in the emergence of plants as inexpensive and facile systems for the generation of therapeutic proteins. More recently, plant viruses have been designed as non-toxic nanoparticles which can target a variety of cancers and thus, empower the immune system to slow or even reverse tumor progression. The following presentation describes the employment of plant virus expression vectors for the treatment of some of the most challenging diseases known today. The presentation concludes with a projection of the multiple avenues by which virus nanoparticles could impact developing countries.

Biography

Kathleen Hefferon received her PhD from the Department of Medical Biophysics, University of Toronto. She is currently working as a Post-doctoral Researcher at the Department of Food Sciences at Cornell University. She is also a Visiting Faculty Member at the University of Toronto. She has four patents to her credit and has edited six books. She has written two books on plants and human health, and has recently been commissioned to work on a second edition for one of them. She is currently the Co-Editor of the *Encyclopedia of Food Security and Sustainability.* She has been selected for the Fulbright Canada Research Chair in Food Security at the University of Guelph, beginning in January, 2018. Her research interests include Agricultural Biotechnology, Global Public Health and Food/Energy Security.

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conferenceseries.com

Amer Elias, J Stem Cell Res Ther 2018, Volume 8
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7th International Conference and Exhibition on

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Novel anti-cancer binary system activated by bacteriophage HK022 integrase

Amer Elias
Tel Aviv University, Israel

Gene therapy is a promising tool for cancer therapeutics. However, a major obstacle that persists is the lack of specificity of the expressed toxic gene against cancer cells. Binary systems based on site-specific recombination are one of the most effective potential approaches for cancer gene therapy. In these systems, a cancer specific promoter expresses a site-specific recombinase/integrase that in turn controls the expression of a toxin gene. We have developed a new HK022 bacteriophage integrase (Int) based binary system that activates a diphtheria toxin (*DTA*) gene expression specifically in cancer cells (Fig 1. A). The efficiency, and specificity of the system were assessed *in-vitro* and *in-vivo* in a lung cancer mouse model. The system presents a significant efficiency and specificity in series of criteria. Strikingly, employment of the developed system to treat mice with lung cancer demonstrates significantly increased longevity (Fig.1 B). The molecular factors that contribute to the system specificity will be described.

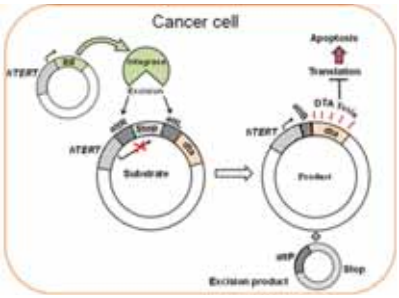


Fig 1A

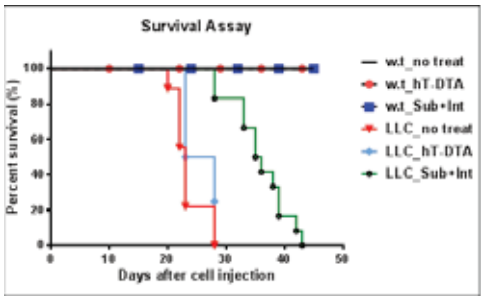


Fig 1B

Figure 1: A. Scheme of the Int-based binary system. The recombination substrate carrying a silenced *DTA* toxin gene separated from its hTERT promoter by a transcription terminator (Stop) flanked by attR and attL recombination substrates. The recombination products generated by Int excision reaction: the activated *DTA* gene separated from its hTERT bacterial recombination site attB (top), and the excised circular attP-Stop (bottom). B. Validation of a binary Int-activated cancer cells killing technology advantage over conventional technology (*hTERT-DTA*) in healthy and LLC-Kat cancer mice. The mice were retro-orbital injected after 10 days of LLC-Kat cells injection systemically each 3-4 days with Sub+Int or *hTERT-DTA* (hT-DTA) plasmid DNA complexed with jetPEI.

Recent Publications:

1. Elias A et al. (2016) Cancer-specific binary expression system activated in mice by bacteriophage HK022 Integrase. Sci. Rep. 6:24971.
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Biography

Amer Elias has his expertise in The Genome Editing and Genome Engineering. He established a model system intended to catalyze a reaction of DNA fragment replacement in the human genome known as, “recombinase mediated cassette exchange (RMCE)” that is based on the site specific recombination system of the coliphage HK022 integrase, with the purpose of developing a gene therapy method to cure human deleterious mutations. He is also developing a specific anti-cancer binary system based on site-specific recombination for targeting tumors with specific suicide gene in animal models, demonstrating its high specificity and safety.

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E Molnar et al., J Stem Cell Res Ther 2018, Volume 8
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The effectivity of novel mesenchymal stem cell therapy in graft-versus-host disease

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Steroid-refractory graft-versus-host disease (GvHD) is a serious complication of allogeneic hematopoietic stem cell transplantation (HSCT) with limited treatment options. We evaluated the efficacy of mesenchymal stem cell (MSC) transfusions in GvHD refractory to conventional treatments. Patients with steroid-resistant GvHD were treated with novel MSC products (derived from 8 bone marrow donors, "MSC-FFM" generated by University of Frankfurt am Main, Germany), 4 times weekly at a dose of 1 million cells/kg. 12 patients received 13 cycles (4 doses/cycle). The median age was 47 (19–56) years, with a male to female ratio of 1:2. Nine patients had allo-HSCT with matched unrelated donors and three with HLA-identic relatives. GvHD was observed on median 63rd (7–455) day after HSCT. The involved organs were skin (2), gut (4), skin and gut combined (7) and lung in three cases. The median time of MSC's first infusion was 274 (114–1981) days after HSCT and 165 (19-1974) days after GvHD onset. Four of the 13 MSC-cycles (30.8%) led to complete and seven (53.8%) resulted in partial remission. GvHD NIH stage score before MSC infusions was three in all cases, which decreased to a median of one after treatment. The overall survival on the 180th day after GvHD onset was 75%. Red blood cell concentrate requirement was reduced from an average of 12.83 to 8.92 (30.5%) and platelet concentrate need from 107.17 to 50.75 (52.6% reduction) after MSC treatment. In summary, MSC-FFM product is an effective, promising alternative treatment for GvHD with 83% response rate.

Biography

E Molnar was awarded PhD from Semmelweis University, Budapest in the year 2017. He holds a Master's Degree (MSc) in Medicine Development from Semmelweis University, Budapest, followed by a Bachelor's Degree (BSc) in Business and Management from Corvinus University, Budapest. He has extended his valuable service in Healthcare from 2008 till date and has been a recipient of many award and grants. Currently, he is working as a Medical Fellow/Attending Physician for the Hungarian National Blood Transfusion Service. His international experience includes various programs, contributions and participation in different countries for diverse fields of study. His research interests reflect in his wide range of publications in various national and international journals.

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Notes:

Kholoud Mokhtar Al-Azmi, J Stem Cell Res Ther 2018, Volume 8
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The most common genetic disease in Hail and diseases related to consanguinity

Kholoud Mokhtar Al-Azmi
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Background & Objective: There are common genetic diseases in Hail, but the information about them are still limited. The objective of this cross-sectional study was to detect the most common genetic disease and the risk factor of consanguinity on genetic diseases in Hail.

Subjects & Methods: The study samples were determined by multistage probability random sampling procedure in Hail city was about personal information, family history and quesitions about diseases if found. Genetic diseases were obtained from 500 papers and electronic questionnaires. The data was analyzed by using SPSS and calculator.

Results: The proportions of genetic diseases were ordered from highest to lowest as follows: type 1 diabetes mellitus (20%), congenital heart disease (9%), breast cancer (8.2%), Down syndrome (6.4%), sickle cell disease (3.8%), muscular dystrophy (1.8%) and thalassemia (1%). However, 49.6% of samples was showed about consanguineous.The proportions showed thalassemia was the highest disease affected by consanguinity relationship (100%, p=0.023), followed by sickle cell disease (73.68%, p=0.032) and breast cancer (34.14%, p=0.039).

Conclusion: The data suggested that the most common genetic disease in Hail is type1 diabetes mellitus and consanguinity is one of the risk factor in some of these genetic diseases such as thalassemia, sickle cell disease and breast cancer.

Biography

I am Kholoud Mokhtar Al-Azmi is from the College of Medicine, University of Hail, Hail, Saudi Arabia.I have 22 years old. I still a student at colleage of Medicine in 5th year, I have done research in genetics and diseases related to consanguinity and I submitted an article on this topic and the most common genetic disease in Hail is Type 1 Diabetes Mellitus and consanguinity is one of the risk factor on some of these genetic diseases as Thalassemia.

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Joshur Ang et al., J Stem Cell Res Ther 2018, Volume 8
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SenezRedTM vital fluorescence probe for detecting mesenchymal stem cell senescence

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There is a growing therapeutic interest in human Mesenchymal Stromal Cells (hMSCs), owing to their immunomodulatory properties, differentiation potential and multiple cell sources. To meet clinical demands, transition from planar to scalar technologies is vital for production of industrial grade hMSCs. However, existing methods in detecting cellular senescence are poorly aligned with industrial bioprocesses. Herein we report the discovery of a membrane-permeable fluorescent probe, SenezRed™, which selectively stains live, senescent hMSCs. Senescent fetal bone marrow hMSC was generated by continuous passaging of hMSC to achieve >120 hours of population doubling time. Cellular senescence was validated using cell cycle analysis and beta-galactosidase assay. Utilizing Diversity-Oriented Fluorescence Library Approach (DOFLA), a library of fluorescent small molecules was screened against proliferative and senescent hMSC. This led to the identification of SenezRed™, a red fluorescent small molecule (Ex/Em: 631/673 nm) that selectively stains live senescent hMSC in both monolayer and microcarrier cultures. The specificity of SenezRed™ was further validated with beta-galactosidase assay and Ki-67 proliferative staining. Staining conditions were optimized to one hour, significantly reducing the staining time compared to conventional senescent assays. Co-staining of SenezRed™ with Mito-Tracker® Green suggested the sub-cellular localisation of the probe in mitochondria. However, further work is required to decipher the detailed mechanism on the selective localisation of SenezRed™. In summary, we have developed a specific senescent hMSC probe that can potentially be used as a rapid screening tool for quality control purposes of hMSC bioprocessing.

Biography

Joshur Ang has completed his Masters of Research (MRes) from University of Manchester and has been working in Agency for Science Technology and Research (A*STAR) Singapore for the past five years.

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A David et al., J Stem Cell Res Ther 2018, Volume 8
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Evolution of recombinant adeno-associated viral vectors for application in ocular gene therapy

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Most retinal degenerative diseases, including retinitis pigmentosa and age-related macular degeneration, are characterized by the progressive loss of photoreceptors. In present clinical efforts, AAV-based vectors are typically applied subretinally, which has shown decrease in retinal thickness and visual acuity in clinical trials. In addition, subretinal application leads to transduction of cells only in the local "bleb" of injected fluid. An effective gene therapy should reach cells along the entire width of the retina. Therefore, AAV vectors are being developed that penetrate through the retinal barriers when introduced into the vitreous humor — the jelly filling of the eye. We applied *in vivo* directed evolution strategy to endow AAV variants with enhanced retinal transduction properties. First, we used a novel peptide display design to disrupt the native receptor binding motif and generated a highly diverse AAV2 library. Next, we iteratively enriched the de-targeted AAV variants possesing desired inner retinal penetration properties. Fianlly, we ranked the receptor binding motifs of the converged library by NGS and the 'top hits' were probed for their transduction fingerprint by intravitreal injection of reporter transgene carrying capsids. Here, we present three evolved AAV variants that mediated highly efficient and pan-retinal transgene delivery to the photoreceptors of wild type murine retina. Our novel AAV vectors, mediating robust, pan-retinal gene expression from the vitreous, meet the challenges of penetrating and targeting distal retinal cells. These vectors may have clinical relevance for implementation in the cell targeted ocular gene therapies and for optogenetic approaches targeting dormant photoreceptors or inner retinal cells.

Biography

A David is pursuing his PhD at the Department of Physiology, University of Bern. His project focuses on developing AAV-based vectors showing enhanced gene delivery into inner retinal cells to meet the requirements of ocular gene therapy. His research is supervised by Dr. Sonja Kleinglogel and Dr. Hildegard Büning, Hannover Medical School, Germany..

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Posters

Johann-Christoph Dettmann et al., J Stem Cell Res Ther 2018, Volume 8
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Production of therapeutically relevant lentiviral vectors for clinical studies

Johann-Christoph Dettmann, Martin Meyer and **Thomas Noll**
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The successful genetic engineering of patient-specific T cells with lentiviral vectors (LVV) expressing, e.g., chimeric antigen receptors for late phase clinical trials and beyond, requires the large-scale manufacturing of high-titer vector stocks. Their mass production remains a challenge and limits their potential therapeutic use, requiring robust, scalable and regulatory-compliant processes for industrial vector production. The state-of-the-art production of lentiviral vectors is based on 10 to 40 layer cell factories transiently transfected in the presence of serum. This manufacturing process is extremely limited by its labor intensity, open-system handling operations and its requirement for significant incubator space, plus costs and patient risk due to the presence of serum. To circumvent these limitations, this study aims to develop a stable and serum-free process to produce lentiviral vectors with PEI-mediated transfection. In addition, this study also focuses on the development of a production system not only using a GFP marker but also therapeutically relevant transgenes to overcome the limitations of GFP as process prediction model. Three different cell lines (HEK 293, HEK 293T, HEK 293FT) were investigated concerning their productivity of LVV and their growing behavior in the in-house serum free medium TransMACS. As part of this, a design of experiment was used to investigate the optimal conditions for PEI/DNA-transfection. Furthermore, this statistical approach was used to identify an ideal ratio between the four 3rd generation plasmids (transfer plasmid, envelope plasmid, packaging plasmids). In addition, several different transfection enhancers were investigated concerning their enhancing effects on productivity, comparing HEK cultures producing LVV encoding for different transfer genes.

Biography

Johann-Christoph Dettmann completed his Master of Science in Biochemistry and Microbiology in 2014 at the University of Rostock, Germany. After this, he took up a Trainee position at the company, Miltenyi Biotec and is now working on his PhD thesis.

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Notes:

Maryam Fathi, J Stem Cell Res Ther 2018, Volume 8
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The effect of *Anethum* on *Dyrk1B* gene expression in metabolic syndrome and coronary artery disease

Maryam Fathi
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Introduction: Cardiovascular disease (CVD) is one of the main causes of death in the world. Metabolic syndrome is known as insulin resistance syndrome, which leads to atherosclerosis and coronary artery diseases. One of the most important genes that may be involved in metabolic syndrome is *Dyrk1B*. In this study, we used *Anethum* in metabolic syndrome by studying the gene expression of *Dyrk1B*. *Anethum* has been proven to reduce fat and cholesterol.

Methods: First, we extracted the RNA from differentiated mesenchymal cells and drug treated mesenchymal cells. Using real-time PCR method, were measured the *Dyrk1B* gene expression. Results were analyzed with One-way ANOVA method.

Results: Expression was *Dyrk1B* when subjected to differentiation, 4.34 fold increases (pvalue=0.0062). It was also shown that *Dyrk1B* expression in differentiated cell groups treated with *anethum* decreased gene expression compare differentiated cell group alone. (Differentiation: 4.343, *Anethum* 1: 1.838, *Anethum* 2: 1.064).

Discussion: *Anethum* has been proven to reduce fat and cholesterol. This study *Anethum* reduced .

Biography

Maryam Fathi is pursuing her MS in Genetics. She has done a research on *Dyrk1B* gene and medicinal plants. She has worked in a genetic counseling center for a while. She has also done a project on Liver Transplantation as a part of her BS Degree.

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M Ponizovskiy, J Stem Cell Res Ther 2018, Volume 8
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Efficient method of cancer cell therapy, repairing quasi-stationary pathologic state of an organism into stationary normal state of an organism

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Stable balance catabolic and anabolic processes induce cytoplasm's basophilic chemical potential through staining cells, forming stable internal energy cells via resonance waves of cellular capacitors operations in norm. Excessive shift balance catabolic and anabolic processes in abundance. Anabolic processes lead to transmutation of able-bodied cells into cancer cells, exhibiting Warburg effect mechanism. Viral oncogenes and excessive shifts balance catabolic and anabolic processes leading to huge anabolic processes, which in turn results in exertion cellular cycle due also to operations of excessive ROS/H_2O_2/free radical produced in mitochondria causing irrepressible cancer proliferative processes. Offered method cancer therapy proposes combination "prolonged medical starvation" with considerably decreased dosage of cytotoxic drugs. Inflow substances and energy in condition of prolonged medical starvation occurs from the organism's depots, both for the organism metabolism and for the cancer cells metabolism. Exhausted organism's depots in condition of prolonged medical starvation exerts mechanism maintenance stabile internal energy of an organism (temperature 36.5°C by which all enzymes operate) that causes shift both an organism's metabolism and cancer tumor metabolism into catabolic exergonic pathway violating anabolic endergonic processes in tumor metabolism that results in cancer cells depression. Thereby, treatment with considerably decreased dosages of cytotoxic drugs in condition depressed cancer cells' metabolsim damage tumor metabolism and rearrange Warburg effect of cancer metabolism into Pasteur effect of normal tissue metabolism, causing efficiently cancer therapy. Advantage this method of cancer treatment is that this method cancer treatment does not violate functions cells of immune and hormonal systems.

Biography

M Ponizovskiy graduated from N I Pirogov Vinitsa National Medical University, Kiev National Institute of Post Diploma Education and Lvov National Medical University, Faculties of Laboratory Clinical Diagnostics, Laboratory Clinical Biochemistry, Laboratory Toxicology. In 1969, he worked as a Scientist at A V Palladin Institute of Biochemistry of Ukraine Academy Sciences on "Biochemistry of Growth". From 1972–1990, he worked as Head of Clinical and Biochemical Laboratory of the First Kiev Regional Hospital, and obtained a PhD in 1990. From 1990–2002 she worked as the Head of Toxicological and Biochemical Laboratory of the Kiev Regional p/n Hospital.

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Reza Naderipour, J Stem Cell Res Ther 2018, Volume 8
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The effects of *Zataria multiflora* extract on *Dyrk1B* gene expression in metabolic syndrome and coronary artery disease

Reza Naderipour
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Introduction: *Zataria multiflora*, known as Avishan-e-Shirazi in Persian, is a wild plant that grows in Central and Southern Iran. In Iran, *Zataria multiflora* is used in traditional folk remedies for its antiseptic, pain-relieving and carminative. Cardiovascular disease (CVD) is the most common cause of death in developed countries and many developing countries. Metabolic syndrome (MS) is a collection of disorders that occur together and increase the risk of developing type 2 diabetes or cardiovascular diseases (stroke or heart disease). In addition, recent studies have shown *Dyrk1b* gene involved in metabolic syndrome.

Methods: Mesenchymal cells were grown in Dulbecco's modified eagle medium (DMEM) supplemented with 10% fetal bovine serum, and 1% pen/strep. After differentiating of mesenchymal cells, cells were treated separately in the presence of *Zataria multiflora* extract. RNA extraction from mesenchymal cells was performed and *Dyrk1b* expression levels were examined by real-time PCR method.

Results: Expression of *Dyrk1b* when subjected to differentiation, increased 4.34 fold (p value=0.0062). It was also seen that *Dyrk1B* expression in differentiated cell groups treated with Zataria (6 µg/ml: thyme 1, 12 µg/ml: thyme 2) decreased gene expression compared to differentiated cell group.

Discussion: This study provides evidence that *Zataria multiflora* can reduce *Dyrk1B* expression and it may be used as an effective and safe therapy for treatment in MS patients.

Biography

Reza Naderipour a MS student in Genetics. He has done research on *Dyrk1B* gene and medicine plants. He has worked in a genetic counseling center for a while.

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Notes:

R Broadhead et al., J Stem Cell Res Ther 2018, Volume 8
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A scalable microfluidics platform for the development of nanoparticles

R Broadhead, J Singh, K Ou, A Thomas, S M Garg, M Ma, B Versteeg, S Ip, T J Leaver, AW Wild, J R Taylor, R Lockard and **E C Ramsay**
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Microfluidic devices have been broadly used to produce nucleic acid-delivery nanoparticles for genetic medicine because they offer control, reproducibility and scalability of the nanoparticle precipitation process to overcome a significant challenge in the translation of these therapeutics. Control over process parameters afforded by microfluidics, allows optimization of nanoparticle quality and encapsulation efficiency. Automation improves the reproducibility and optimization of formulations. The continuous nature of the microfluidic process is inherently scalable, allowing optimization at low volumes to conserve scarce or costly materials, and seamless scale-up of optimized formulations by employing multiple microfluidic mixers performing identical unit operations in parallel. In this study, we present a scalable microfluidic platform for producing nanomedicines. The platform includes a system designed for production under cGMP conditions employing eight parallel microfluidic mixers capable of producing a 25L formulation of RNA lipid nanoparticles (LNP) in ~4h. Seamless scale up of production was demonstrated by producing a test batches of siRNA-LNPs against the blood clotting protein factor VII (FVII) on each of three systems designed for different stages of nanomedicine development. The physico-chemical characteristics (DLS, and HPLC) and *in vivo* efficacy (FVII levels in murine models) of the formulations were consistent across the platform. Additional performance testing determined that 5L can be produced with a single mixer without loss of particle quality. These results suggest that parallel microfluidic formulation is a viable path forward for overcoming challenges in scaling nucleic acid LNP formulations for a variety of gene and cell therapies.

Biography

R Broadhead is a PhD with wide experience of both the business and academic areas of the biological and medical sciences to drive the success of a company. He has achieved excellence in research, having been first author of a paper in *Nature*. I now combine my knowledge and understanding of cutting edge science with my significant product management and global business development experience to achieve success in the commercial side of science.

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E-Poster

Cell Therapy 2018

Tatiana V. Egorova et al., J Stem Cell Res Ther 2018, Volume 8
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New insight into exon-skipping approach for Duchene muscular dystrophy treatment

Tatiana V. Egorova[1,2] and **Alexei V Deikin**[1]
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Exon-skipping is one of the most promising tool for Duchenne muscular dystrophy (DMD) treatment. Approximately, 80% of all possible mutations in dystrophin gene are amenable to exone-skipping therapy. The idea of exon-skipping is to the restore reading frame of dystrophin mRNA at the splicing level and get a shortened form of protein with functional N- and C-ends, which are crucial for binding to actin myofibers and membrane protein complex, correspondingly. We created a new mice model of DMD with deletion of exons 8–34 and tested antisense oligonucleotides (AON) for skipping of exons six and seven on primary murine myoblasts derived from 16 day old model mice embryos. Three days after the AONs, addition skipping success has been analized by RT-PCR, following sequencing of products. B009 vivo-morpholino addition resulted in only short deletion instead of full-exon skipping. 36 base upstream of 7th exon-intron junction alternative non-canonical splice site (AT-GC) has been activated. Occasionally or not, 36 base skipping doesn't lead to frameshift and can move to 12 amino acid deletion of translated protein. As soon as sequence of murine of 7th exon is completely identical to the human one, analysis of predicted splice sites was performed. Surprisingly, there was no such variant in the database. So, splicing involving such splice sites can be driven by unknown mechanisms. Presence of unknown intra-exonic splice sites can explain naturally occuring exon-skipping in DMD patients and animal models. Discovery of new splice sites in DMD gene can ease the exon-skipping approach, leading to the treatment of a large number of pateints.

Biography

Tatiana V Egorova has completed a specialization course from the M V Lomonosov Moscow State University. She is Junior Researcher at Institute of Gene Biology, RAS and Researcher at Marlin Biotech LLC. She has published six papers in reputed journals and took a part in six research projects, and attended research schools for young scientists in Russia and Europe.

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Accepted Abstracts

Cell Therapy 2018

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Different concentrations of nitric oxide changed the histone deacetylase 2 gene expression and activity of glutathione peroxidase

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Nitric oxide (NO) is a two atom free radical that plays an important role as a secondary messenger in cell physiological functions and change of its value influences proteins activity and triggering intracellular signaling cascades. Low frequency electromagnetic field (EMF) by targeting the plasma membrane as well as entering force to the ions and small electrical liga nds alters the cell biology such as cell differentiation. One way of protein activity regulation is post translation modifications that changes structure and function of proteins. Nitric oxide is a signaling molecule in cells that high concentration of this free radical modifies proteins after the translation. NO binds to tyrosine and cysteine residues and influence on the enzyme activity and following that cell fate. In this study effect of high and low concentrations of NO and electromagnetic field as physical inducer were investigated on the histone deacetylase 2 (HDAC2) gene expression and glutathione peroxidase (GPx) enzyme activity in rat bone marrow mesenchymal stem cells. The cell viability examined in different concentrations of nitric oxide too. The results showed high and low concentrations of NO and EMF alter the gene expression of HDAC2 differently than the control group. NO decreases the activity of GPx. Reduction of cell viability by high concentration of NO attended with the decreased gene expression of HDAC2 and GPx activity, preview important role of NO in cell physiology and fate. NO in high concentration can lead apoptosis and cause to differentiate the stem cells.

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Modes of Cell Death Induced by Photodynamic Therapy Using Zinc Phthalocyanine in Lung Cancer Cells Grown as a Monolayer and Three-Dimensional Multicellular Spheroids

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Photodynamic therapy (PDT) involves interaction of a photosensitizer, light, and molecular oxygen which produces singlet oxygen and subsequent tumour eradication. The development of second generation photosensitizers, such as phthalocyanines, has improved this technology. Customary monolayer cell culture techniques are, unfortunately, too simple to replicate treatment effects in vivo. Multicellular tumour spheroids may provide a better alternative since they mimic aspects of the human tumour environment. This study aimed to profile 84 genes involved in apoptosis following treatment with PDT on lung cancer cells (A549) grown in a monolayer versus three-dimensional multicellular tumour spheroids (250 and 500 µm). Gene expression profiling was performed 24 h post irradiation (680 nm; 5 J/cm2) with zinc sulfophthalocyanine (ZnPcSmix) to determine the genes involved in apoptotic cell death. In the monolayer cells, eight pro-apoptotic genes were upregulated, and two were downregulated. In the multicellular tumour spheroids (250 µm) there was upregulation of only 1 gene while there was downregulation of 56 genes. Apoptosis in the monolayer cultured cells was induced via both the intrinsic and extrinsic apoptotic pathways. However, in the multicellular tumour spheroids (250 and 500 µm) the apoptotic pathway that was followed was not conclusive.

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Nanocarriers for Nose-To-Brain, Non-invasicve Delivery of Gene Therapy

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The overall objective of the present research was to develop a nanocarrier system for non-invasive delivery to brain of molecules useful for gene therapy. Manganese-containing nanoparticles (mNPs) carrying anti-eGFP siRNA were tested in cell cultures of eGFP-expressing cell line of mouse fibroblasts (NIH3T3). The optimal mNPs were then tested *in vivo* in mice. Following intranasal instillation, mNPs were visualized by 7T MRI throughout brain at 24 and 48 hrs. mNPs were effective in significantly reducing GFP mRNA expression in Tg GFP+ mice in olfactory bulb, striatum, hippocampus and cortex. Intranasal instillation of mNPS loaded with dsDNA encoding RFP also resulted in expression of the RFP in multiple brain regions. In conclusion, mNPs carrying siRNA, or dsDNA were capable of delivering the payload from nose to brain. This approach for delivery of gene therapies to humans, if successful, will have a significant impact on disease-modifying therapeutics of neurodegenerative diseases.

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Impact of DIY home manufacturing with 3D printing on the toy and game market

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The 2020 toy and game market is projected to be US$135 billion. To determine if 3D printing could affect these markets if consumers offset purchases by 3D printing free designs, this study investigates the 100 most popular downloaded designs at MyMiniFactory in a month. Savings are quantified for using a Lulzbot Mini 3D printer and three filament types: commercial filament, pellet-extruded filament, and post-consumer waste converted to filament with a recyclebot. Case studies probed the quality of: (1) six common complex toys; (2) Lego blocks; and (3) the customizability of open source board games. All filaments analyzed saved the user over 75% of the cost of commercially available true alternative toys and over 90% for recyclebot filament. Overall, these results indicate a single 3D printing repository, among dozens is saving consumers well over $60 million/year in offset purchases. The most common savings fell by 40%–90% in total savings, which came with the ability to make novel toys and games. The results of this study show consumers can generate higher value items for less money using the open source distributed manufacturing paradigm. It appears clear that consumer do-it-yourself (DIY) manufacturing is set to have a significant impact on the toy and game markets in the future.

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Development of economic DLP & resin based 3D printing system for micro fabrication of fine resolution

Shweta Thapa
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3D printing using optics is one of the most novel & ground-breaking technologies being explored for precise micro-fabrication. A compact & portable 3D printing system composed of a simple desktop & light projector can be used to make micro-structures & soft materials of the order of 50-100 microns. The system is based on projection micro stereo-lithography which involves additive layer by layer manufacturing of the 3D polymer on application of UV light from the projector. The study involves the development of the 3D printer experimental setup, optical & material characterization of the system. Shape memory polymers are advanced soft materials that can configure to a specified shape on application of heat & retain their original shape once the thermal stimulus is removed. A biomedical stent is capable of dilating constricted coronary artery blood vessels to allow for smooth blood regulation. The possibilities of shape memory polymer to be used as a biomedical stent has been explored in the study.

INDEX

A David	65	Nassim Abi Chahine	54
A. Yilmazer	51	Paolo Madeddu	55
Amer Elias	61	Paul von Hoegen	41
E Molnar	62	R Broadhead	72
Johann-Christoph Dettmann	68	Reza Naderipour	71
Joshur Ang	64	Shalini Gupta	49
Katarina Stroffekova	42	Shuying Yang	40
Kathleen Hefferon	60	Tatiana V. Egorova	74
Kholoud Mokhtar Al-Azmi	63	Todd K Rosengart	50
M Ponizovskiy	70	Williams J K	59
Maria Skamagki	47	Yuan-Chuan Chen	48
Maryam Fathi	69	Yu-Fen Chang	52
Michał Pikuła	43		

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- Diabetes & Endocrinology
- Gastroenterology
- Healthcare Management
- Hematology
- Infectious Diseases
- Medical Ethics
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- Neuroscience
- Nephrology
- Nursing
- Obesity
- Oncology & Cancer
- Ophthalmology
- Palliativecare
- Pathology
- Pediatrics
- Physical Therapy Rehabilitation
- Psychiatry
- Pulmonology
- Radiology
- Surgery
- Vaccines
- Reproductive Medicine &
- Women Healthcare

Journals and Conferences by Subject

- Agri, Food & Aqua
- Biochemistry
- Business & Management
- Chemical Engineering
- Chemistry
- EEE & Engineering
- Environmental Science
- Genetics & Molecular Biology
- Geology & Earth Science
- Immunology
- Materials Science
- Microbiology
- Nanotechnology
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- Oncology & Cancer
- Petroleum
- Pharma Marketing & Industry
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- Veterinary

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Upcoming Cell Therapy Conferences

6th International Conference on Integrative Biology
May 21-23, 2018 Barcelona, Spain
https://integrativebiology.conferenceseries.com/

10th International Conference on Genomics and Molecular Biology
May 21-23, 2018 Barcelona, Spain
https://genomics.conferenceseries.com/

12th Annual Conference on Stem Cell and Regenerative Medicine
June 04-06, 2018 Prague, Czech Republic
https://stemcellcongress.conferenceseries.com/

4th International Conference on
Synthetic Biology and Tissue Engineering
June 11-12, 2018 Rome, Italy
https://syntheticbiology.conferenceseries.com/

13th International Conference on
Tissue Engineering and Regenerative Medicine
July 12-13, 2018 Paris, France
https://tissue-engineering.conferenceseries.com/

10th Annual Conference on Stem Cell and Regenerative Medicine
August 13-14, 2018 London, UK
https://stemcell-regenerativemedicine.conferenceseries.com

Bookmark your dates

9th International Conference and Exhibition on

Cell and Gene Therapy

March 21-23, 2019 Rome Italy

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