

WHS/SAWC Meeting, San Diego 2008
Sessions/Co-Chairs & Speakers for WHS Part of the Program

Wednesday, April 23, 2008

WHS Board of Directors' Meeting, Hyatt Windsor BC, Wed. 4/23, 11 AM - 7 PM
WHS Networking Room, SDCC Room 27A, TH 4/24 thru SAT 4/26
Speaker Ready Room-SDCC, Room 21, Meeting duration

Finance Committee Meeting, Windsor BC, Sat. 4/26, 7:00 to 8:00 PM

Thursday, April 24, 2008

POSTER SET-UP 8:00 AM TO 4:00 PM

PRE-CONFERENCES, Thursday the 24th, 7:30-11:30 am

A. Principles of Wound Care (SDCC/Room 28 ABC) – **Leader:** Aamir Siddiqui (Henry Ford Hospital)

Wound care is a complex and changing field. This course will focus on evidence-based core competencies of wound care. You will learn the basic principles that experienced wound care professionals use to diagnose and treat some of the most difficult wounds. New to this year's course are clinical case scenarios. Although it is an overview introduction to many areas of wound healing, it also serves as an excellent review for all levels of expertise and understanding. Space is available. Please sign up for the Principles of Wound Care (Session 6) Thursday, April 24, 2008 7:30 to 11:30 am.

B. Laser Capture Microscopy (SDCC/Room 23 ABC) – **Leader:** Sashwati Roy (Ohio State University)

Biopsies collected from human wounds are highly heterogeneous in cellular composition. Laser capture microdissection (LCM) permits rapid procurement of spatially resolved and histologically defined tissue samples. This workshop is based on a Zeiss-PALM system that will demonstrate laser microdissection pressure catapulting techniques including sample preparation and genome/proteome analysis.

SBIR Meeting with Carl Baker/NIH

NIAMS Small Business Innovation Research and Small Business Technology Transfer (SBIR/STTR) Discussion
Thursday April 24, 2008 - 8:30-11:00 AM, Hyatt Connaught

Industrial Advisory Committee Meeting, Hyatt Windsor BC, Thurs. 4/24, 11:30 AM-1:30 PM

RESEARCH SESSIONS

Session: Stem Cells/Tissue Engineering & Wound Healing

Thursday the 24th, 4:00-6:00 pm - SDCC Room 28 ABC

Co-Chairs: Linda Griffith (MIT)
Geoff Gurtner (Stanford University)

Speakers: Alan Russell (McGowan Institute for Regenerative Medicine)
Title: " Is regenerative wound healing ready for prime time? Facts or fiction"
David Mooney (Harvard University)
Title: "Materials to program cells in situ"
Catherine Verfaillie (Director, Stamcelinstituut, K U Leuven)
Title: "Can we exploit greater potency of adult stem cells in regenerative medicine?"
Hari Reddi (University California Davis)
Title: "Tissue Engineering and Regeneration of Articular Cartilage: Signals, Stem Cells and Scaffolds "

Grand Opening of Exhibits/WHS Booth/Cocktail Reception, SDCC-Hall H 6:15 - 8:30 PM

WHS Member Welcome Reception, Hyatt Pool Terrace & America's Cup A-D, Thurs. 4/24, 8:30 -10:00 PM

Friday, April 25, 2008

Discussion Panel Meeting with Manueala Martins-Green, Ph.D., Hyatt Edward D, Fri. 4/25, 7-8:30 AM

Morning Poster Session, Friday, April 25 from 7:00 to 8:45 am

Session: Young Investigator Podium Presentations

Friday the 25th, 8:30 to 11:00 am - SDCC Room 23 ABC

NOTE: The YI panel of judges will be in the audience during the presentations. Questions will be facilitated by the moderators on stage. Young Investigators will be honored at the WHS annual business meeting and reception on Saturday, April 26 at 6:00 p.m.

Moderators: Adrian Barbul (President)
Jeff Davidson (Past President)
Allen Holloway (President-Elect)
Patricia Hebda (Vice President)

Speakers: Adrian Barbul (Opens session)

Young Investigators:

1 - Identification of Altered Genomic Signatures in Diabetic Endothelial Progenitor Cells Through a Computational Systems Biology Approach

Arturo R. Maldonado^{1,2}, Bruce J. Aronow^{3,4}, Eva Uzvolgyi^{3,5}, Robert M. Cohen⁶, Jignesh K. Parvadia^{1,2}, Lee M. Morris^{1,2}, Jose Fernando Vuletin Solis^{1,2}, Foong-Yen Lim^{1,2}, Timothy M. Crombleholme^{1,2,1} Department of Surgery, University of Cincinnati², Division of General, Thoracic, and Fetal Surgery, ³Department of Pediatrics, ⁴Divisions of Biomedical Informatics and Computational Medicine, Cincinnati Children's Hospital Medical Center, ⁵Division of Human Genetics, ⁶Division of Endocrinology, Diabetes, and Metabolism, Department of Internal Medicine, University of Cincinnati, Cincinnati, OH USA

2 - A Murine Model of Ischemic Wounds

S. Biswas, S. Roy, S. Khanna and C. K. Sen
The OSU Comprehensive Wound Center (CWC), Davis Heart and Lung Research Institute and The Department of Surgery, The Ohio State University Medical Center, Columbus, Ohio

3 - Transgenic Mice Overexpressing Cd109, a Novel TGF-Beta Co-Receptor, in the Skin Display Elevated Expression of Collagen I and Fibronectin

Joshua Vorstenbosch, Albane Bizet, Gen Chaput, Stephane Roy, and Anie Philip, Division of Plastic Surgery, Department of Surgery, McGill University Montreal, Quebec, Canada

4 - Basement Membrane Formation After Transplantation of Skin to Full Thickness Wounds

Baraa Zuhaili¹, Magdalena Fossum¹, Priyesh Mehta¹, Richard Reish¹, Bohdan Pomahac¹, Feng Yao¹, Elof Eriksson^{1,1} Division of Plastic Surgery, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

5 - Biodegradable Poly-N-Acetyl Glucosamine (PGLCNAC) Nanofibers Enhance Wound Healing by Activating Cell Migration, Angiogenesis and Cell Proliferation

Sandra Saja Scherer, MD¹, Giorgio Pietramaggiore, MD¹, Jasmine Matthews¹, Samuel Perry¹, Anke Assmann, MD², Arun Seth, PhD³, Marina Demcheva, PhD⁴, John N Voumakis, PhD⁴, C. Robert Valeri, MD⁵, Herbert B Hechtman, MD, PhD⁶ and Dennis P Orgill, MD, PhD¹
¹Division of Plastic Surgery, Brigham and Women's Hospital, Harvard Medical School, Boston, MA²Joslin Diabetic Center, Harvard Medical School, Boston, MA³ Department of Laboratory Medicine and Pathobiology, University of Toronto, Canada⁴ Marine Polymer Technologies, Danvers, MA⁵Naval Blood Research Laboratory, Inc., Boston, MA⁶Department of Surgery, Brigham and Women's Hospital, Harvard Medical School, Boston, MA

6 - Accumulation of Oxygen Free Radicals Impairs HIF-1 Alpha Transactivation Resulting in a Decreased Response to Ischemic Injury

Edward I. Chang, Michael G. Galvez, Samyra El-ftesi, Geoffrey C. Gurtner Stanford University, Stanford CA, USA

7 - Role of T Lymphocytes in the Formation of Hypertrophic Scarring

Kelantan M., Bhatt K, Vial I, Longaker MT, Gurtner GC, Stanford University, Stanford, CA

8 - Hyaluronan facilitates TGF-β-1 mediated fibroblast differentiation and proliferation

Soma Meran -- ETRS Young Investigator Awardee, University Hospital of Wales

Session: Controversial Treatments of Wounds: Hyperbaric Oxygen and Negative Pressure Wound Therapy, Friday the 25th, 11:30-12:30 am – SDCC Room 20 D

Co-Chairs: Paul Liu (Roger Williams Medical Center) and Harriet Hopf (University of Utah)

Speakers: Harriet Hopf (University of Utah)

Title: "What is the role of hyperbaric oxygen therapy in management of diabetic limb ulcers?"

Subhas Gupta (Loma Linda University)

Title: "Use, Abuse, and the Truth About Negative Pressure Wound Therapy"

Raj Mani (ETRS President)

Title: "More measurements in wound healing to close the gap between wound science and management?"

Awards Committee Meeting, Hyatt Gregory A, Fri. 4/25, 1:15-2:15 PM

Editorial Board Committee Meeting, Hyatt Molly A-B, Fri. 4/25, 1:45-2:45 PM

Education Committee Meeting, Hyatt Edward A-B, Fri. 4/25, 1:45-2:45 PM

Government Relations Committee Meeting, Hyatt Edward C, Fri. 4/25, 1:45-2:45 PM

Membership Committee Meeting, Hyatt Gregory B, Fri. 4/25, 1:45-2:45 PM

Website Committee Meeting, Hyatt Edward D, Fri. 4/25, 1:45-2:45 PM

Potential Sources of Funding for Wound Healing and Regeneration Research

Friday the 25th, 1:30-3:00 pm Betsy B-C, Located on 2nd. Floor of Seaport Tower of Hyatt

Speakers: Carl Baker (Program Director of the Skin Diseases Program, NIAMS)

Title: "NIH funding sources and special programs for wound healing research"

(this talk would cover the NIH institutes that fund WH research and also any relevant RoadMap projects such as the human Microbiome project)

Cheryl Lapham (Program Director Division of Skin and Rheumatic Diseases, NIAMS, NIH, DHHS)

Title: "Navigating the NIH grant system"

Joseph Wenke – (Manager, Regenerative Medicine Task Area Manager, Orthopaedic Trauma, Research Program US Army Institute of Surgical Research)

Title: "Regenerative Approaches to Combat Related Trauma: Problems, Solutions, and Funding Opportunities"

Jon Mogford (Program Manager, DSO, DARPA)

Title: "Doing business with DARPA"

Private funding

General Session: *Friday the 25th, 4:30-5:30 pm – SDCC Room 20 ABC*

Keynote Speaker: Yoram Vodovotz
Director, Center for Inflammation and Regenerative Modeling
Professor of Surgery, Immunology, and Com. Science and Disorders
University of Pittsburgh

Title: “Translational Systems Biology of Inflammation and Healing”

Friday the 25th, 5:30-6:45 pm – SDCC Room 20 ABC

Panel Discussion: Where are we in wound healing research and where should we be going in the next 10 years?

Moderators: (Manuela Martins-Green and Paul Liu)

Panelists: Timothy Crombleholme
Professor of Surgery, Obstetrics and Gynecology and Pediatrics (Molecular and Developmental Biology), University of Cincinnati College of Medicine
Jeffrey Davidson
Professor of Pathology Department of Pathology C-3321 MCN,
Vanderbilt University School of Medicine
Caroline Fife
Chief Medical Officer, Intellicure, Inc.
Clay Marsh
Vice Chair for Research. Interim Director, Pulmonary and Critical Care
Department of Internal Medicine, College of Medicine, OSU
Martin Robson
Emeritus Professor of Surgery, University of South Florida
Bill Tawil
Senior Research Scientist, Baxter BioScience
Sabine Werner
Professor, Institute of Cell Biology, ETH Zürich

Poster Gala and Awards: Friday, April 25 from 7:00 to 10:00 pm SCDD Hall H (All poster presenters should attend)

WHS President’s Reception, Hyatt Ford A-B, Fri. 4/25, 9:30-11:00PM

Saturday, April 26, 2008

Morning Poster Session, Saturday, April 26 from 7:00 to 8:45 am

WHS General Session-3M Foundation Scholarship Award
Saturday, April 26, 9:45-10:15 AM SDCC-ROOM 20ABC

Session: Cytokines & Growth Factors: In honor of Anita Roberts

Saturday the 26th, 10:30-12:30 pm – SDCC Room 24 ABC

Co-Chairs: Kathleen Flanders (National Institutes of Health)
Hari Reddi (University of California Davis)

Speakers: Kathleen Flanders (National Institutes of Health)
Title: "Anita Roberts: Outstanding Scientist, Mentor and Friend"

Mark Ferguson (Manchester University)
Title: "TGF-betas: Wound Healing and Scarring."

Sharon Wahl (National Institutes of Health)
Title: "TGF-beta - to heal or not to heal?"

Sabine Werner (ETH Zurich)
Title: "Stromal - epithelial interactions in wound healing and skin cancer"

Chandan Sen (Ohio State University)
Title: "Regulation of angiogenesis by microRNA"

Tom Hunt (University of California San Francisco)
Title: "Anita Roberts the right Scientist, the right Person at the right Time"

Anie Philip: Award Description Presentation

Exhibits Open w/lunch- WHS Booth open 12:15-3:30 PM (Hall H)

Meet the Mentors, SDCC Reg. lobby, Saturday. 4/26, 12:45-2:15PM

Nuts & Bolts of Setting Up Your First Laboratory

Mentors: Lisa Gould & Annette Wysocki

Industry Jobs/Career Paths

Mentors: Laura Parnell & Elizabeth Hagerman

Collaboration Between Academia & Industry

Mentors: Bill Tawil & Diane Cooper

Navigating Through the Grant Review Process

Mentors: Luisa DiPietro & Jeff Davidson

Getting Research Published

Mentors: Manuela Martins-Green and Martin Robson

How to Establish Collaboration & Authorship

Mentors: Patricia Hebda and Elof Eriksson

Publications Committee Meeting, Hyatt Molly A, Sat. 4/26, 1:15-2:15 PM

Scientific Liaison Committee Meeting, Hyatt Madeleine D, Sat. 4/26, 1:15-2:15 PM

Industry Session: Outcomes of Clinical Trials, Saturday the 26th, 2:15-3:45 pm SDCC Room 23 ABC

Co-Chairs: Sandy Dethlefsen (Genzyme)
Tony Ratcliffe (Synthasome, Inc.)

Speakers: Scott Batty Jr. M.D., F.A.C.S. (Genzyme)

Title: "Mozobil (Plerixafor) for Mobilization of CD34+ Cells Via the CXCR4/SDF-1 α Pathway."

Barbara Sosnowski (Tissue Repair Company)

Title "Clinical Development of a PDGF-B Gene Matrix Combination for Chronic Dermal Ulcers"

Chris Roberts, (Smith and Nephew UK.)

Title: "Challenges in conducting post marketing studies on advanced topical wound devices"

Doug Losordo (Northwestern Univ., Feinberg Sch. Med.)

Title: "Autologous CD34+ Stem Cells for Microvascular Repair in Myocardial Ischemia"

Mitchell Sanders (ECI Biotech)

Title: "Rapid Point of Care (PoC) Diagnosis of Wound Infection with ExpressDetect®"

Martin Robson (University of South Florida)

Title: "Guidelines to Aid Healing of Acute Wounds by Decreasing Impediments of Healing"

ABSTRACT PRESENTATIONS

A. 3 concurrent sessions - Saturday the 26th 3:45-5:45 pm

ACUTE AND BURN WOUNDS AND EPITHELIALIZATION PODIUM PRESENTATIONS

Saturday, April 26, 2008, 3:45 to 5:45 pm - SDCC Room 25 ABC

Moderators: Tai-Lan Tuan and Joshua Vorstenbosch

9 - Serpine1 (PAI-1) is Deposited Into Keratinocyte Migration "Trails" and Required for Optimal Monolayer Wound Healing

Paul J. Higgins, Albany Medical College, Albany, NY 12208

10 - Woundstat: A New Hemostatic Agent for Severe Arterial Hemorrhage

Robert F. Diegelmann, Ph.D. & Kevin R. Ward, M.D.

Departments of Biochemistry & Emergency Medicine VCU Reanimation, Engineering & Shock Center Virginia Commonwealth University Medical Center Richmond, VA

11 - Effects of Second-Hand Cigarette Smoke on Fak and Rho-Gtpases Lead to Inhibition of Corneal Wound Healing

Chongze Ma and Manuela Martins-Green

Department of Cell Biology and Neuroscience, University of California, Riverside, CA 92521

12 - Rac2 in Redox Regulated Wound Healing

Sashwati Roy, Navdeep Ojha, Guanglong He, Sabyasachi Biswas, Murugesan Velayutham, Savita Khanna, Periannan Kuppusamy, Jay L. Zweier and Chandan K. Sen, The Ohio State University Comprehensive Wound Center, Columbus, OH 43210

13 - A Preclinical Model of Ischemic Wounds

Valerie Bergdall, Jeanne Green, Sabyasachi Biswas, Sashwati Roy, Gayle Gordillo, *Lisa Gould and Chandan K. Sen

The OSU Comprehensive Wound Center and University Laboratory Animal Resources and The Ohio State University (OSU) Medical Center, Columbus, OH 43210; James A. Haley VA Hospital, Tampa, Florida

14 - Protease Inhibitors Prevent Microvesiculation in Sulfur Mustard Wounds on Human Skin Explants

B. Liesenfeld², M. Mol¹, G. Schultz^{2,3},

¹TNO Laboratories, Netherlands, ²Quick-Med Technologies, Gainesville, FL, ³Univ. of Florida

15 - Inhibition of Arginase Improves Wound Healing in Vivo

Aarti R. Uzgare, S. Kavalukas, R Harlan, A. Barbul,
Department of Surgery, Division of Surgical Research, Sinai Hospital of Baltimore, Baltimore MD 21215

16 - Evaluation of the Use of Biobraner for Wound Care in Pediatric Burn Patients in San Antonio

CM Ueno¹, PP Lopez¹, GG Godwiler¹, MG Corneille¹, JG Myers¹, DL Dent¹, SM Cohn¹, RM Stewart¹ SE Wolf¹
University of Texas Health Science Center Center San Antonio (UTHSCSA), TX USA

EXTRACELLULAR MATRIX, BIOENGINEERING AND BIOMATERIALS PODIUM PRESENTATIONS

Saturday, April 26, 2008, 3:45 to 5:45 pm – SDCC Room 24 ABC

Moderators: Alan Wells and Praveen Arany

17 - The Age-Associated Impairment in Cutaneous Wound Healing is Reversed in Collagen III Deficient Aged Mice

SW Volk¹, A Radu³, K Alcorn³, AJ Cohen², L Lasso², SL Adams², and KW Liechty³ ¹School of Veterinary Medicine and ²School of Dental Medicine, University of Pennsylvania, and ³The Children's Hospital of Philadelphia, Philadelphia, PA.

18 - Calreticulin Induces Matrix Proteins and Integrins in Keratinocytes and Fibroblasts for Enhanced Wound Healing

L.I. Gold¹, M.R. Greives¹, C. Woodrell¹, A.S. Chesser¹, T.A. Bancroft¹, J.E. Murphy-Ullrich²,
¹New York University School of Medicine, New York, NY USA,
²University of Alabama, Birmingham, AL USA

19 - Laminin Alpha5 Chain Function in Keratinocyte Attachment and Migration

Tengjiao Cui¹, Meihua Zhang^{1, 2} and Jie Li¹.
¹University of Miami, Miami, FL, USA; ²Nanjing Medical University, Nanjing, China

20 - Impaired Wound Healing in Diabetic (Db/Db) Mice is Associated with Dysregulation of Thrombospondin-1 and -2 Expression

SW Volk¹, L Hakkinen¹, BJ Herdrich², L Zhang², H Shitaye¹, KD Hankenson¹, and KW Liechty²
¹School of Veterinary Medicine, University of Pennsylvania and ²The Children's Hospital of Philadelphia, Philadelphia, PA.

21 - Sustained Release of Reactive Oxygen Species on The Healing of Diabetic Rat Dermal Wounds

Vadivel A, Masilamoni GJ, Bhatt KA, James JP, Sen CK, GC Gurtner, Rajadas J
Stanford University, Stanford CA

22 - Development of Cytokine-Regulating Matrices

Steve Sun¹, Sidi A. Bencherif¹, Adam M. Farkas², Michael T. Lotze², Newell R. Washburn²
¹Carnegie Mellon University, Pittsburgh, PA 15213, ²University of Pittsburgh, Pittsburgh, PA 15213

23 - Wound Healing Around Percutaneous Implants

AD Janis¹, LL Kunz², KN Richmond³
1-DermaPort / Implanted Acoustics, Santa Clarita CA
2-BioGenetics Research Laboratories Inc, Greenview WA
3-BioDevelopment Associates LLC, Mountlake Terrace WA

24 - Using Mathematical Modeling to Predict Performance: Advanced Therapies and Tissue Repair in Real World Settings

Joy Ko, PhD* and Vincent W. Li, MD, MBA
Institute for Advanced Studies, The Angiogenesis Foundation, Cambridge, MA USA*Department of Mathematics, Brown University, Providence, RI USA.

CHRONIC WOUNDS AND AGING PODIUM PRESENTATIONS

Saturday, April 26, 2008, 3:45 to 6:00 pm – SDCC Room 23 ABC

Moderators Nancy Stotts and Kirit Bhatt

25 - Aberrant Expression of Cxcl13 in Chronic Wounds and Keloid Scars

Neil French¹, Darren Hodgson², Haris Rathur³, Rayaz Malik³, Andrew Boulton³, Charles McCollum⁴, Nick Occleston¹, Mark Ferguson¹ and Sharon O'Kane¹

¹Renovo plc., Manchester Incubator Building, Manchester M13 9XX, UK ²AstraZeneca, Alderley Park, Macclesfield, SK10 4TG, UK ³Cardiovascular Research Group, Manchester Royal Infirmary, Manchester, M13 9WL, UK ⁴Dept. of Vascular Surgery, Wythenshawe Hospital, Manchester, M23 9LT, UK

26 - Prevalence of Obstructive Sleep Apnea in Patients of an Academic Wound Center

R. N. Khayat, S. J. Schutzman, B. T. Patt, S. Roy, G. Gordillo, R. Schlanger, L. Lambert, K. Rose, U. Gnyawali, A. Coston and C. K. Sen
Division of Pulmonary Critical Care and Sleep, and the OSU Comprehensive Wound Center The Ohio State University, Columbus, OH USA

27 - Pressure Ulcers; Medical Error, Safety Failure, or Untoward Comorbidity?

M. Meehan, Independent Healthcare Consultant, Clarksville, MD USA

28 - Impaired Diabetic Wounds Have Increased Gene Expression of SDF-1 Alpha and HIF-1 Alpha Compared With Non-Diabetic Heterozygotes Using Real-Time RT-PCR

B.J. Herdrich^{1,2}, S.W. Volk³, L. Zhang¹, K.W. Liechty^{1,2}

¹Children's Hospital of Philadelphia, Philadelphia, PA, USA ²University of Pennsylvania School of Medicine, Philadelphia, PA, USA ³University of Pennsylvania School of Veterinary Medicine

29 - HSF1-/- Cells Are More Susceptible to Hypoxia/Reperfusion Induced Cell Death

X. Ding, R.C. Fang, CL Gallant-Behm, T.A. Mustoe, R.D. Galiano., Division of Plastic Surgery, Northwestern University, Chicago, IL.

30 - Adaptation of a Bench-Top Protease Assay for Use as a Rapid and Non-Instrumented Bedside Test of Wound Fluid Protease Activity

Daniel J. Gibson, John Azeke, Gregory S. Schultz, University of Florida, Gainesville, FL

31 - Upregulation of Cox-2 Protects Dermal Fibroblasts from Hypoxia/Reoxygenation- Induced Death

R.C. Fang^{1,2}, X.Z. Ding¹, R.D. Galiano¹, T.A. Mustoe¹

¹Wound Healing Research Laboratory, Division of Plastic Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Chicago, IL. ²Department of Surgery, Mt. Sinai Hospital, University of Illinois College of Medicine, Chicago, IL.

32 - Wound Bed Preparation Prior to The Use of Bi- Layered Tissue Engineered Skin: The Role of Protease Modulation

Terry Treadwell, MD, FACS, Maryluz Fuentez, MD, MPH, Donna Walker, LPN, Institute for Advanced Wound Care, Baptist Medical Center, 2167 Normandie Drive, Montgomery, Alabama 36111

32a - Mice Lacking Beta6 Integrin in Skin Show Accelerated Wound Repair in Impaired Wound Healing Model

Y. Xie¹, K. Gao², L. Häkkinen¹, H. Larjava¹

¹University of British Columbia, Vancouver, BC Canada ²University of California, Los Angeles, CA USA.

Wound Healing Foundation Meeting, Hyatt Molly A & B, Sat. 4/26, 4-5:45 PM

WHS Business Meeting, Hyatt Randle AB, Sat 4/26, 6:00 - 7:00 PM

WHS Social, Hyatt Randle Terrace, Sat 4/26, 7:00 - 9:00 PM

Sunday, April 27, 2008

B. 3 concurrent sessions: Sunday the 27th, 7:30-9:30 am

ANGIOGENESIS PODIUM PRESENTATIONS

Sunday, April 27, 2008, 7:30 to 9:30 am – SDCC Room 24 ABC

Moderators: Darrell Carney and Shani Goldberg-Shilo

33 - Micro-RNA Regulate Redox Signaling and Angiogenic Response of Human Microvascular Endothelial Cells

Shani Shilo¹, Sashwati Roy, Savita Khanna and Chandan K. Sen²

Comprehensive Wound Center and Department of Surgery, The Ohio State University Medical Center, Columbus, Ohio 43210

34 - High Dose Radiation Impairs Hypoxia Responsiveness and Vascular Recovery in Vitro and in Vivo

P.D. Nguyen, O.Z. Lerman, C.C. Chang, V.D. Thanik, S.M. Warren, P.B. Saadeh, J.P. Levine

Institute of Reconstructive Plastic Surgery New York University Medical Center, New York, NY USA

35 - Temporal Changes in The Granulation Tissue Laser Captured From a Preclinical Model of Ischemic Wounds

T. Rink, S. Roy, S. Biswas, S. Khanna, and C. K. Sen

The OSU Comprehensive Wound Center and Department of Surgery, The Ohio State University Medical Center, Columbus, OH 43210

36 - M-CSF-Induced VEGF Production from Human Monocytes is Regulated By MAPK/Erk Via SP-1

Tim D. Eubank^{1,3}, Jennifer M. Curry^{1,2}, Ryan D. Roberts^{1,2}, Yijie Wang^{1,3}, Nabendu Pore⁴, Amit Maity⁴, Clay B. Marsh^{1,2,3,1}

The Dorothy M. Davis Heart and Lung Research Institute and The Comprehensive Wound Center, ² The Integrated Biomedical Science Graduate Program, College of Medicine and Public Health, and the ³ Department of Internal Medicine, The Ohio State University, Columbus, OH 43210, USA ⁴ Department of Radiation Oncology, University of Pennsylvania School of Medicine, Philadelphia, PA 19004, USA

37 - IP-10/CXCL10 Mediated Calpain Cleavage of Beta-3 Integrin Leads to the Dissociation of Newly-Formed Vessels During Wound Healing

Richard J. Bodnar¹, Cecelia C. Yates¹, Xiaoping Du² and Alan Wells

¹Pittsburgh Veterans Affairs Medical Center¹, and the Department of Pathology, University of Pittsburgh¹, Pittsburgh, PA 15261, and the Department of Pharmacology, University of Illinois², Chicago, IL, 60612, USA.

38 - Aged Impairments in Wound Healing Result from Decreased HIF-1 Alpha Mediated Neovascularization

Edward I. Chang, Michael G. Galvez, Samyra El-ftesi, Shang A. Loh, Geoffrey C. Gurtner

Stanford University, Stanford, CA, USA

39 - Deleterious Effects of Angiotensin Receptor Antagonist Losartan in Normal and Diabetic Wound Healing

Jignesh K. Parvadia¹, Arturo R. Maldonado¹, Lee Morris¹, Fernando Vuletinsolis¹, Maria Ripberger¹, Barbara Kalinowska¹, Foong-yen Lim¹, Bruce Aronow³, Robert M Cohen², Timothy M. Crombleholme¹

¹Center for Molecular and Fetal Therapy, Division of Pediatric and Thoracic Surgery, Division of Endocrinology, ²Diabetes and Metabolism, Department of Medicine, ³Division of Biomedical Informatics, Cincinnati Children's Hospital Medical Center and the University of Cincinnati College of Medicine, Cincinnati, OH 45229

40 - Insulin Acceleration of Healing and its Effects on Human Microvascular Endothelial Cells

Yan Liu and Manuela Martins-Green

Department of Cell Biology and Neuroscience, University of California, Riverside, CA

GENE THERAPY AND CLINICAL TRIALS PODIUM PRESENTATIONS

Sunday, April 27, 2008, 7:30 to 9:30 am SDCC Room 23 ABC

Moderators: Dorothy Supp and Corrie Gallant-Behm

41 - Transgene Expression Over a Prolonged Observation Period After BFGF Gene Therapy to Promote Healing of Injured Flexor Tendons

Yi Cao, MD, Chun Hao Chen, MD, Ya Fang Wu, MD, Jinsong Gao, MD, Xiao Tian Wang, MD, Paul Y. Liu, MD, Jin Bo Tang, MD
Affiliated Hospital of Nantong University, China; Roger Williams Medical Center, Providence, RI

42 - Regeneration of the Appendages of The Skin by Wnt3 and BMP-2 Plasmid Delivery Using Hydroxyapatite Particles

I Ono¹, T Kamiya¹, Y Akasaka³, M Kobune², H Hamada², T Yamashita¹

¹Department of Dermatology, Sapporo Medical University, Sapporo Japan. ²Department of Molecular Biology, Sapporo Medical University, Sapporo Japan. ³Department of Pathology, Toho University, Tokyo, Japan.

43 - Randomized Double-Blind Burn Pruritus Study

B.Nedelec^{3,4*} OT(c), Ph.D, G.Rachelska⁵ M.Sc, L.LaSalle⁶ M.D, LKS. Parnell⁷ M.Sc, CWS.

^{*}McGill University; [^](CHUM) Hôtel-Dieu; [‡]Hôpital de réadaptation Villa Medica, Montréal, Québec, Canada; [†]Precision Consulting, Missouri City, Texas, U. S. A.

44 - Is now 32a

45 - Cryopreserved Bilayered Cellular Matrix (Orcel) is Superior to Standard of Care in The Treatment of Venous Ulcers: Results of a Prospective, Randomized, Controlled Multi Center Clinical Trial

Thomas E. Serena MD FACS and the Orcel Study Group.

NewBridge Medical Research/Penn North Centers for Advanced Wound Care, Waren, PA.

46 - Non-Viral Plasmid Transfection with Hypoxia Inducible Factor-1 Alpha Improves Diabetic Wound Healing

Lixin Liu, Guy P Marti, Xianjie Zhang, Xiaofei Wei, Huafeng Zhang, Ye V Liu, Manuel Nastai, Gregg L Semenza, John W Harmon
Department of Surgery, Johns Hopkins bayview, Baltimore, MD 21224

47 - In Vivo Grafting of Cultured Skin Substitutes Induces Large-Scale Gene Expression Programs That Are Appropriate for Normal Skin – and Suggests Areas for Improvement

Dorothy M. Supp¹, Jennifer M. Klingenberg¹, Kevin L. McFarland¹, Aaron Friedman², and Bruce J. Aronow²

¹Shriners Burns Hospital and ²Cincinnati Children's Hospital Medical Center, Cincinnati, OH

48 - The Role of High-Voltage, Pulsed Electrical Stimulation in Limb Salvage for Diabetic Patients

J. J. Burdge¹, J. F. Hartman², M. L. Wright²

¹Plastic and Reconstructive Surgery, Surgery of the Hand, Columbus, OH USA ²Orthopaedic Research & Reporting, Ltd., Gahanna, OH USA

STEM CELLS PODIUM PRESENTATIONS

Sunday, April 27, 2008, 7:30 to 9:30 am – SDCC Room 26 AB

Moderators: Manuela Martins-Green and Hari Thangaaajah

49 - Topical Therapy for Diabetic Wounds Using Lineage-Negative Progenitor Cells

C.D. Lin¹, J.E. Macklin¹, O.Z. Lerman¹, O.T. Tepper¹, P.B. Saadeh¹, J.P. Levine¹, S.M. Warren¹

¹New York University School of Medicine, NY USA

50 - Lack of Evidence for Circulating Dermal Fibroblast Progenitors in Cutaneous Wound Healing

T. Barisic-Dujmovic, I. Boban, S. H. Clark

Department of Genetics and Developmental Biology, University of Connecticut Health Center, Farmington, CT USA

51 - The Role of Mesenchymal Stem Cells (Mscs) in EPC-Mediated Ischemic Vasculogenesis in Diabetes

Callaghan MJ, Grogan RH, Chang E, Gurtner GC, Stanford University, Stanford, CA

52 - Composition of a Bone Marrow Concentrate Determines its Regenerative Effect: A Comparative in Vivo Study

S. V. Kevy¹, M. S. Jacobson¹, C. Heeschen^{2,1} CBR Institute for Biomedical Research, Boston, MA USA

²Ludwig-Maximilians University, Munich, Germany

53 - Human EPC Mobilization and Differentiation is Influenced by Exercise and by Aging

Edwin Chang¹, Josemarie Paterno¹, Edward Chang¹, Jayakumar Rejadas¹, Kimberley Edwards², John P. Cooke², Geoffrey C. Gurtner¹,
Department of Surgery¹ and Division of Cardiovascular Medicine², Stanford University, Stanford, CA, USA, 94305

54 - Aging and Diabetes Compromises Endothelial Progenitor Cell Function and Differentiation

Edwin Chang¹, Josemarie Paterno¹, Edward Chang¹, Jayakumar Rejadas¹, Kimberley Edwards², John P. Cooke², Geoffrey C. Gurtner¹,
Department of Surgery¹ and Division of Cardiovascular Medicine², Stanford University, Stanford, CA, USA, 94305

55 - Stem Cell Antigen-1 (Sca-1) Ko Mice Do not Show Evidence of Wound Impairment at One Year of Age

B.J. Herdrich^{1,2}, S.W. Volk³, A. Badillo¹, K.W. Liechty^{1,2}

¹Children's Hospital of Philadelphia, Philadelphia, PA, USA, ²University of Pennsylvania School of Medicine, Philadelphia, PA, USA

³University of Pennsylvania School of Veterinary Medicine, Philadelphia, PA, USA

56 - Different Estrogen Receptors Modulate the Differential Secretion of VEGF by Hair Follicle Cells in a Wound Healing Assay

S Stevenson^{1,2}, AH Taylor³, DT Sharpe¹, MJ Thornton²

¹Burns & Plastic Surgery Unit & ²Cutaneous Research, Medical Biosciences, School of Life Sciences, University of Bradford, ³Preterm Birth Research Group, Reproductive Sciences Section, Department of Cancer Studies and Molecular Medicine, University of Leicester, UK

C. 3 concurrent sessions: Sunday the 27th 9:30-11:30 am

WOUND THERAPIES PODIUM PRESENTATIONS

Sunday, April 27, 2008, 9:30 to 11:30 am – SDCC Room 25 ABC

Moderators: Annette Wysocki and Michael Galvez

57 - Active Tumors in Vivo Enhance Platelet Drug Delivery Function

Giorgio Pietramaggiore, MD^{1,3}, Saja S Scherer, MD¹, David Cervi, PhD², Adelaide Carothers, PhD⁴, Giannoula Klement, MD² and Dennis P Orgill MD, PhD¹

¹Division of Plastic Surgery, Brigham and Women's Hospital and Harvard Medical School, Boston, MA

²Department of Surgery, Vascular Biology Program, Children's Hospital Boston, Harvard Medical School, Boston, MA

³Division of Plastic Surgery, University of Geneva, Switzerland

⁴Division of Surgical Oncology, Brigham and Women's Hospital and Harvard Medical School, Boston, MA

58 - Deferoxamine Prophylaxis for Decubitus Ulcers in Aged Animals

M. G. Galvez, E. I. Chang, G. C. Gurtner, Stanford University School of Medicine, Stanford, CA

59 - Increased Fluid Alone Does not Increase Hydroxyproline Levels in Older Nursing Home Residents At-Risk for Pressure Ulcers

N.A. Stotts,¹ H.W. Hopf,² J. Kayser-Jones,¹ G. Chertow,³ B.A. Cooper,¹ H.S. Wu⁴

¹UCSF, San Francisco, CA USA

²University of Utah, Salt Lake City, Utah USA

³Stanford University, Stanford, CA USA

⁴Wayne State University, Detroit, MI USA

60 - Molecular Imaging-Assisted Optimization of Laser Preconditioning for Wound Repair Enhancement

Gerald J. Wilmink¹, Susan R. Opalenik², Lillian B. Nanney³, Anita Mahadevan-Jansen¹, Jeffrey M. Davidson^{2,4}, E. Duco Jansen¹

¹Department of Biomedical Engineering, Vanderbilt University, Nashville, TN 37235

²Department of Pathology, Vanderbilt University, Nashville, TN 37212

³Department of Plastic Surgery, Cell & Developmental Biology, Vanderbilt School of Medicine, Nashville, TN 37212

⁴Research Service, VA Tennessee Valley Health Care System, Nashville, TN 37212

61 - Increased Cell Metabolism Following V.A.C.® Therapy

Amy K. McNulty¹, Marisa Schmidt¹, Teri Feeley¹, Patricia Villaneuva¹, Kris Kieswetter^{1,1} Kinetic Concepts, Inc.

62 - Giving Supplemental Fluid to Older Nursing Home Residents Is Safe But May Not Reduce Under-Hydration

N.A. Stotts,¹ H.W. Hopf,² J. Kayser-Jones,¹ G. Chertow,³ B.A. Cooper,¹ H.S. Wu⁴

¹UCSF, San Francisco, CA USA, ²University of Utah, Salt Lake City, Utah USA

³Stanford University, Stanford, CA USA

⁴Wayne State University, Detroit, MI USA

63 - Histological and Immunohistochemical Studies on Infected Wound Treated With Pexiganan Incorporated Collagen Scaffold

D. Gopinath¹, E. Chang², G.C. Gurtner², R. Jayakumar¹

Department of Surgery¹, Stanford University, Stanford, CA, USA, 94305 and Central Leather Research Institute, Chennai, India, 600-020²

64 - The Use of Amnion-Derived Cellular Cytokine Suspension (ACCS) to Improve Healing in Acute And Chronic Wound Models

Franz MG, Payne WG, Xing, L, Steed DL, Marshall V, Trumpower CJ, Smith CA, and Robson MC

University of Michigan, Bay Pines VAHC, University of Pittsburgh, University of South Florida and Stemnion, Inc.

FIBROSIS/SCARRING AND OXYGEN PODIUM PRESENTATIONS

Sunday, April 27, 2008, 9:30 to 11:30 am – SDCC Room 24 ABC

Moderators Anie Philip and Sabyasachi Biswas

65 - Adenosine A_{2A} Receptor Occupancy Stimulates Wound Matrix Production by Modulating IL-13 and FLII Expression

Patricia Fernandez, Alex Luna, Maria Trojanowska, Bruce N Cronstein, Edwin S. L. Chan
NYU School of Medicine & Medical University of South Carolina

66 - Differential Expression of Transforming Growth Factor (TGF)- β s and TGF- β Receptors During Skin Wound Healing in Adult Mice With Fibromodulin (Fmod) Deficiency

Zhong Zheng, Ph.D., Khoi Nguyen, D.M.D., Joyce Z. Wang, B.S., Xinli Zhang, M.D., Ph.D, Kang Ting, D.M.D., D.M.Sc., Chia Soo, M.D.
University of Southern California, University of California, Los Angeles, Los Angeles, California

67 - Deep Dermal Fibroblasts Contribute to Hypertrophic Scarring

J Wang, C Dodd, H Shankowsky, P Scott, E Tredget
Wound Healing Research Group, University of Alberta, Edmonton, AB Canada

68 - Effects of Transforming Growth Factor Beta 3 in A Clinically Relevant Model of Full Thickness Incisional Wounding in The Gottingen Minipig®

H. Lavery¹, N. Occleston¹, R. Jones¹, J. Little¹, M. Johnson², D. Fairlam¹, M. Ferguson¹ and S. O'Kane¹
¹Renovo Group Plc, 48 Grafton Street, Manchester, M13 9XX, UK
²MPI Research, 54943 North Main St, Mattawan, MI 49071, US

69 - Gene Expression Pathways Upstream from Differentially Expressed Collagen Genes in the Duroc/Yorkshire Porcine Model of Fibroproliferative Scarring

K.Q. Zhu, G.J. Carrougner, M.L. Ramos, N.S. Gibran, L.H. Engrav University of Washington, Seattle, WA

70 - Ischemia Results in a Differential Response to Oxidative Stress in Young and Old

Q. Zhang¹, L. Gould²
¹UTMB, Galveston, TX, ²James A Haley Veterans Hospital, Tampa, FL.

71 - Skin Microvascular Responses to Compression Bandaging and Leg Elevation

D.D. Wipke-Tevis¹ & D.A. Williams²
¹MU School of Nursing, University of Missouri, Columbia, MO USA
²College of Nursing, Montana State University, Bozeman, MT USA

72 - Phenotypic Differences Between Fibroblasts from Normal Mucosa and Subglottic Stenosis: Implications for Fibrotic Upper Airway Mucosal Wound Healing.

Tripti Singh, Joseph E. Dohar, Patricia A. Hebda.
Department of Otolaryngology, University of Pittsburgh and Children's Hospital of Pittsburgh, PA

GROWTH FACTORS & INFLAMMATION PODIUM PRESENTATIONS

Sunday, April 27, 2008, 9:30 to 11:30 am – SDCC Room 23 ABC

Moderators Lisa Gould and Melissa Petreaca

73 - Quantitative Analysis of Gene Expression and Immunohistochemical Staining of Growth Factors at Different Stages of Tendon Healing

Chun Hao Chen, MD, Jin Bo Tang, MD, Ya Fang Wu, MD, Yi Cao, MD, Jinsong Gao, MD, Xiao Tian Wang, MD, Paul Y. Liu, MD
Affiliated Hospital of Nantong University, China; Roger Williams Medical Center, Providence, RI

74 - Inflammatory Protein Deactivation by Proteases

Laura K.S. Parnell[†], B.Sc., M.Sc, CWS, Eric Luo*, Ph.D., Amie Myers[^], B.Sc. [†]Precision Consulting, Missouri City, Texas; *Swiss-American Products, Inc, Carrollton, Texas; [^]MicroConsult, Dallas, Texas

75 - VEGF-Induced Expression of Light/TNFSF14 Promotes Macrophage Apoptosis Through the Lymphotoxin Beta Receptor

Petreaca, M.L., Yao, M., and Martins-Green, M. University of California, Riverside, CA

76 - Differential Expression of Leukocyte Adhesion Molecules in Wounds of MAC-1 Deficient Mice.

L. Yu, B. Naik-Mathuria, J. Hsu, D. Cass and O. Olutoye, Div. of Pediatric Surgery, Dept. of Surgery, and Section of Leukocyte Biology, Dept. of Pediatrics, Baylor College of Medicine, Houston, TX

77 - A Simple 2-Dimensional (2-D) Model of Epidermal Wound Healing

NB Menke, KR Ward, RF Diegelmann, Virginia Commonwealth University, Richmond, VA USA

78 - Comparison of Cytokine Profiles Between Normal and Ischemic Wound Tissue

Tim D. Eubank, Ryan D. Roberts, Valerie Bergdall, Sabyasachi Biswas, Chandan K. Sen, Clay B. Marsh
The OSU Comprehensive Wound Center and The Dorothy M. Davis Heart and Lung Research Institute (DHLRI), Departments of Internal
Medicine and Surgery, The Ohio State University Medical Center, Columbus, OH 43210

79 - Will be presented Saturday, the 26th, 10:30 – 12:30 Session: Cytokines & Growth Factors: In honor of Anita Roberts

Stromal – Epithelial Interactions in Wound Healing and Skin Cancer

Yang, Jingxuan, Meyer, Michael, Ornitz David M., Werner Sabine

80 - Decreased Expression of Type 1 TGF-Beta Receptors in Db/Db Mice

Xiao Tian Wang, Anthony Bais, Jin Song Gao, Jin Bo Tang, Paul Yu Liu, Department of Surgery, Roger Williams Medical Center, Providence,
RI, Boston University School of Medicine, Boston, MA

NOTE: We are pleased to announce that ALL posters will be displayed for the entire meeting, allowing more time for viewing. Blue Ribbon Finalists will have posters on display in a designated section.

Morning Poster Sessions: Friday, April 25 from 7:00 to 8:45 am and Saturday, April 26 from 7 to 8:45 am

Poster Gala and Awards: Friday, April 25 from 7:00 to 10:00 pm (all poster presenters should attend)

Announcement of Blue Ribbon Poster Awards and Annual WHS Business Meeting and Social Event are scheduled for Saturday, April 26 at 6:00 pm at the Manchester Hyatt.

Blue Ribbon Posters

(Top submissions from authors working for and with Industry)

81 - ABSORBENT MICROBICIDAL WOUND DRESSING MATERIAL WITH PROTEASE INHIBITION PROPERTIES

B Liesenfeld¹, G Schultz^{1,2}, J Azeke², O Moloye², W Toreki¹, R. Carr¹, D Moore¹, J Olderman¹;
¹Quick-Med Technologies, Gainesville, FL, ²Univ of Florida

82 - KERATINOCYTE MIGRATION ASSAYS AS A SCREENING TOOL FOR POTENTIAL WOUND HEALING ACTIVES

Dale Telgenhoff, Namrata Barai, Brett Kiedaisch, Stacey Solano-Kiedaisch, and Duncan Aust, Healthpoint, Ltd., Applied Research Division, Fort Worth, TX

83 - BALSAM PERU, CASTOR OIL, AND TRYPSIN OINTMENT ALTERS THE ACTIVITY PROFILES OF MMP-2 AND MMP-9 IN CONTAMINATED PIG WOUNDS

Lei Shi¹, Dale Telgenhoff¹, Ryan Ermis¹, Kan Lam², Duncan Aust¹
¹Applied Research, Healthpoint, Ltd., Fort Worth, TX, ²Bridge PTS, Inc., San Antonio, TX

84 - WOUND FLUID PROTEASE PROFILE FROM CONTAMINATED PIG WOUNDS

Lei Shi¹, Ryan Ermis¹, Dale Telgenhoff¹, Kan Lam², and Duncan Aust¹
¹Applied Research, Healthpoint, Ltd., Fort Worth, TX, ²Bridge PTS, Inc., San Antonio, TX

85 - MICROARRAY ANALYSIS OF DIABETIC RAT WOUNDS TREATED WITH V.A.C. ® THERAPY, MOIST WOUND THERAPY, OR GAUZE UNDER SUCTION

Kathleen Derrick¹, Kris Kieswetter¹, and Amy McNulty^{1,1} KCI, 6203 Farinon Drive, San Antonio, TX 78249

86 - PERSISTENT SKIN SANITIZER WITH SUSTAINED MICROBICIDAL PROPERTIES

W. Toreki¹, D. Moore¹, R. Carr¹, B. Liesenfeld¹, J. Vella¹, G. Schultz^{1,2}, J. Olderman¹, ¹QuickMed Technologies, ²Univ of FL, Gainesville, FL

87 - HO/03/03 IN THE TREATMENT OF DIABETIC FOOT ULCERS - FINAL RESULTS OF A PHASE I STUDY

E Braude, O Halevy-Hachem, M Ben-Hamo, I. Solomonik, L. Braiman-Wiksman, T. Tennenbaum. Heal-Or Ltd. 14 Einstein str., Science Park, Ness-Ziona, Israel

88 - MULTI-RESISTANT STAPHYLOCOCCUS AUREAS SIGNIFICANTLY DELAYS WOUND HEALING IN A SWINE FULL THICKNESS MODEL

Dale Telgenhoff¹, Namrata Barai¹, Egeene Daniels², Brett Kiedaisch¹, Stacey Solano-Kiedaisch¹, and Duncan Aust¹
¹Healthpoint, Ltd., Fort Worth, TX²University of North Texas Health Science Center, Fort Worth, TX

89 - THE ELECTRIC FIELD AT HUMAN SKIN WOUNDS DECLINES SHARPLY WITH AGE

Richard Nuccitelli¹, Pamela Nuccitelli¹, Changyi Li¹, Suman Narsing¹, David Vendt², David Pariser^{2,3} and Antoinette F. Hood³
¹BioElectroMed Corporation, Burlingame, CA 94010;
²Virginia Clinical Research, Inc., Norfolk, VA 23507;
³Department of Dermatology, Eastern Virginia Medical School, Norfolk, VA 23501

90 - SKIN PERMEATION CHARACTERISTICS OF BALSAM OF PERU CONSTITUENTS THROUGH INTACT AND DAMAGED SKIN

Brett Kiedaisch, Namrata Barai, Dale Telgenhoff, and Duncan, Aust Applied Research, Healthpoint, Ltd., Fort Worth, TX

91 - INHIBITION OF ACTIVIN LIKE KINASE 5 (ALK 5) INHIBITS TRANSFORMING GROWTH FACTOR BETA 1 (TGFβ1) MEDIATED SIGNALING IN VITRO BUT DOES NOT REDUCE SCARRING IN VIVO.

Nick Goldspink, Kerry Nield, Joleen Fenwick, Hugh Laverty, Mark WJ Ferguson, Sharon O'Kane and Nick Occleston. Renovo plc. Manchester Incubator Building, 48 Grafton Street, Manchester, M13 9XX

Oral-Poster Presentations

(Posters will be on display at all times during the meeting)

Morning Poster Sessions: Friday, April 25 from 7:00 to 8:45 am and Saturday, April 26 from 7 to 8:45 am

Poster Gala and Awards: Friday, April 25 from 7:00 to 10:00 pm (all poster presenters should attend)

92 - CELLULAR WOUND HEALING ANALYSIS USING FLOW CYTOMETRY AND ePTFE IMPLANTS

J. Tsuji, J. D. Whitney, E. Tolentino, M. Perrin, University of Washington, Seattle, WA USA

93 - IMPACT OF INTRACELLULAR ATP DELIVERY ON CYTOARCHITECTURE OF RABBIT SKIN WOUNDS

M. T. Tseng¹, Sufan Chien²

¹Department of Anatomical Sciences & Neurobiology, University of Louisville, Louisville, KY USA; ²Department of Surgery, University of Louisville, Louisville, KY USA

94 - WOUND INDUCTION OF AN EPITHELIAL CHYMASE

J. D. Firth,¹ V.-J. Uitto² and E. E. Putnins¹, ¹ University of British Columbia, Vancouver, Canada, ² Helsinki University Central Hospital, Helsinki, Finland

95 - A CASE SERIES OF SCROTAL DECUBITI: RISK FACTORS AND OUTCOMES

A. A. MacLean, J. E. Glaser, A. I. Kraev, New York Hospital Queens, Flushing, New York, USA

96 - EFFICACY OF ACORUS CALAMUS EXTRACT ON COLLAGEN CHARACTERISTICS DURING WOUND HEALING IN RATS

Lonchin Suguna, Scientist, Department of Biochemistry, Central Leather Research Institute, Adyar, Chennai 600 020, India.

97 - CASE SERIES OF FOLEY CATHETER PENILE EROSIONS: RISK FACTORS AND TREATMENT

Joseph E. Glaser, MD, Alexandra A. MacLean MD, New York Hospital Queens Flushing, New York, USA

98 - ARE BIOMECHANICAL FORCES RESPONSIBLE FOR THE ANGIOGENIC PROPERTIES OF NEGATIVE PRESSURE WOUND THERAPY (NPWT)?

Sudha Agarwal, Jie Liu, Sabyasachi Biswas, Gayle M Gordillo, Chandan K. Sen and Valerie Bergdall
The Ohio State University Comprehensive Wound Center, Columbus, Ohio

99 - THE EFFECT OF HYPOXIA ON VEGF/sVEGFR-1 PRODUCTION FROM HUMAN MONOCYTES: IMPLICATIONS IN WOUND HEALING

The OSU Comprehensive Wound Center and The Dorothy M. Davis Heart and Lung Research Institute (DHLRI), Department of Internal Medicine, The Ohio State University, Columbus, OH 43210, USA

100 - BIOMECHANICAL SIGNALS SUPPORT ANGIOGENIC PROPERTIES OF HUMAN MICROVASCULAR ENDOTHELIAL CELLS

Jie. Liu¹, Suresh. K. Agarwal², Sashwati Roy¹, Gayle M. Gordillo¹, Keith Gooch¹, and Sudha Agarwal¹.

¹The Ohio State University Comprehensive Wound Center, Columbus, Ohio ²Department of Surgery, Boston University, Boston, MA

101 - 5-HT2A RECEPTOR BLOCKER ACCELERATES LOWER LIMB WOUND HEALING VIA SUPERFICIAL FASCIAL FLAP

Sadanori Akita¹, Kozo Akino², Akiyoshi Hirano^{1,1} Dept of Plastic Surgery, Nagasaki University ² Dept of Neuroanatomy, Nagasaki University, Nagasaki, Japan

102 - DETERMINATION OF RELATIONSHIP OF FIBRINOGEN AND THROMBIN CONCENTRATION TO FIBRIN SCAFFOLD PROPERTIES THROUGH THE USE OF DEXTRAN NANOPARTICLES

Vivian Hecht, Haison Duong, Ben Wu and Bill Tawil, UCLA Department of Bioengineering

103 - INTERVENTIONS FOR ALVEOLAR BONE REGENERATION IN A GINGIVOPERIOSTEOPLASTY MODEL

P.D. Nguyen, C.D. Lin, A.C. Allori, T. Reisler, J.S. Schachar, J.P. Levine, P.B. Saadeh, S.M. Warren
Institute of Reconstructive Plastic Surgery New York University, New York, NY USA

104 - SELENIUM COVALENTLY BOUND TO A WOUND BANDAGE INHIBITS THE ATTACHMENT OF BACTERIA

T. W. Reid^{1,2}, P. Tran¹, T. Mosley², T. Gray¹, A. Hammond¹, J. Cortez¹, M. Shashtri³, J. Spallholz^{2,4}, A. Hamood¹
¹Texas Tech University Health Sciences Center, ²Auxano Biologics Ltd., ³Eburon Organics, Intl., and ⁴Texas Tech University, Lubbock TX USA

105 - SYNTHESIS AND *IN VIVO* CHARACTERIZATION OF INJECTABLE AND BIODEGRADABLE POLYURETHANE SCAFFOLDS IN A WOUND HEALING MODEL

A. E. Hafeman¹, K. J. Zienkiewicz¹, J. M. Davidson^{2,3}, S. A. Guelcher¹
Departments of ¹Chemical Engineering and ²Pathology, Vanderbilt University, Nashville, TN, USA ³VA Tennessee Valley Healthcare System, Nashville, TN, USA

106 - REPLICATING LIGAND DOMAINS OF FETAL MATRIX TO PROMOTE TISSUE REGENERATION

Bhatt KA, Rajadas J, Thangarajah H, Vial N, Chang E, Kelantan M, Longaker MT, Gurtner GC
Stanford University School of Medicine, Stanford, CA

107- Abstract has been pulled

108 - TREATMENT OF SECOND DEGREE BURNS WITH DEHYDRATED, DECELLULARIZED AMNIOTIC MEMBRANE (BIOVANCE) VS A SILVER DRESSING (ACTICOAT)

Terry Treadwell, MD, FACS, Maryluz Fuentez, MD, MPH, Donna Walker, LPN,
Institute for Advanced Wound Care, Baptist Medical Center, Montgomery, AL 36111

109 - IMMUNOHISTOCHEMICAL ANALYSIS OF TGF-BETA AND CTGF IN THERMAL BURN INJURY TISSUE AND NORMAL SKIN

D. McCurry, G. Schultz, D. Mozingo, L. Moldawer, University of Florida, Gainesville, FL USA

110 - DEVELOPMENT OF THIN FILMS FOR RAPID DETECTION OF MATRIX METALLOPROTEINASES IN WOUND FLUIDS

O. Moloye, J. Azeke, A. Maico, C. Batich, and G. Schultz, University of Florida, Gainesville, FL USA

111 - NEUTROPHIL INFILTRATION IS QUANTIFIABLE AS A PRE- NECROTIC INDICATOR OF CUTANEOUS ISCHEMIA/REPERFUSION INJURY IN A MURINE MODEL

R.C. Fang^{1,2}, S.X. Jia¹, X.Z. Ding¹, M. De La Garza¹, R.D. Galiano¹, T.A. Mustoe¹
¹Wound Healing Research Laboratory, Division of Plastic Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Chicago, IL.
²Department of Surgery, Mt. Sinai Hospital, University of Illinois College of Medicine, Chicago, IL.

112 - REPETITIVE ISCHEMIA/REPERFUSION IMPAIRS CUTANEOUS WOUND HEALING IN A NOVEL MODEL IN RABBIT

A.N. Gurjala¹, R. C. Fang^{1,2}, R.D. Galiano¹, T.A. Mustoe¹
¹Wound Healing Research Laboratory, Division of Plastic Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Chicago, IL.
²Department of Surgery, Mt. Sinai Hospital, University of Illinois College of Medicine, Chicago, IL.

113 - BACTERIAL BIOFILMS DELAY CUTANEOUS HEALING IN A NOVEL MURINE CHRONIC WOUND MODEL

Clark F. Schierle MD PhD, Thomas A. Mustoe MD, Robert D. Galiano MD.
Division of Plastic & Reconstructive Surgery, Northwestern University Medical School

114 - A COMBINATION TREATMENT OF A BASIC FIBROBLAST GROWTH FACTOR AND AN ARTIFICIAL DERMIS IMPROVE COMPLICATED WOUNDS---A CLINICAL TRIAL FOR CHRONIC ULCERS CAUSED BY A COLLAGEN DISEASE WITH STEROID USE

Masaki Fujioka, Kiyoshi Oka, Riko Kitamura, Aya Yakabe
Department of Plastic and Reconstructive Surgery, National Hospital Organization Nagasaki Medical Center, Nagasaki Japan

115 - IN VIVO NON INVASIVE NEAR INFRARED ASSESSMENT OF CHRONIC DIABETIC WOUNDS: A PILOT HUMAN STUDY

Michael S. Weingarten, MD, *; Leonid Zubkov, DSc**; Michael Neidrauer, MS**; Linda Zhu, MS**; Kambiz Pourrezaei, PhD**; Jane E. McDaniel, RN; Sarah Kralovic, B.S.*; Usha Kumar, B.S.*; Kimia Pourrezaei, MS.*; Elisabeth S. Papazoglou, PhD**;
*Drexel University College of Medicine, Philadelphia, Pennsylvania ** Drexel University School of Biomedical Engineering, Philadelphia, Pennsylvania

116 - DEVELOPMENT OF A NOVEL IN VIVO DIABETIC MODEL OF NEUROISCHEMIC WOUND HEALING

Leena Pradhan, Szuhuei Wu, Junaid Malek, Nicholas Andersen, Michelle Martin, Sowmya Senani, Frank LoGerfo and Aristidis Veves

117 - LASER DOPPLER: IT'S USE IN EVALUATING THE SUCCESS OF REVASCULARIZATION PROCEDURES OR PREDICTING AMPUTATION LEVELS

J. R. Crew, T.A. Rocas III, San Francisco Center for Advanced Wound Care @ Seton Medical Center @Daly City, CA. U.S.A.

118 - Abstract has been pulled.

119 - DEVELOPING AN IND FOR CLINICAL TRIALS IN TISSUE REPAIR

T.Y.Yufit^{1,2}, P. Carson^{1,2}, J. Butmarc^{1,2}, T. Kwak^{1,2}, V. Falanga¹⁻³

¹ Department of Dermatology and Skin Surgery, Roger Williams Medical Center, Providence, RI USA ² Roger Williams Medical Center NIH-funded Center of Biomedical Research Excellence (COBRE), Providence, RI USA ³ Department of Dermatology and Biochemistry, Boston University, Boston, MA USA

120 - WOUND SHAPE GEOMETRY MEASUREMENTS PREDICT EVENTUAL WOUND HEALING

Matthew Cardinal, M.E.¹, David E. Eisenbud M.D., David G. Armstrong, D.P.M., Ph.D.³

121 - NONLINEAR MODELING OF VENOUS LEG ULCER HEALING RATES

Matthew Cardinal, M.E.¹, David E. Eisenbud M.D., M.B.A.², Tania Phillips, M.D.³, David G. Armstrong, D.P.M., Ph.D.⁴, Keith Harding, M.D.⁵, Jonathan Mansbridge

122 - DEVELOPMENT OF TRANSGENIC MICE THAT INDUCIBLY EXPRESS BETA IG-H3 IN THE EPIDERMIS

T. Kwak^{1,2}, T. Yufit^{1,2}, J. Butmarc^{1,2}, S-J Kim⁴, V. Falanga¹⁻³

¹ Department of Dermatology and Skin Surgery, Roger Williams Medical Center, Providence, RI

² Roger Williams Medical Center NIH-funded Center of Biomedical Research Excellence (COBRE), Providence, RI

³ Department of Dermatology and Biochemistry, Boston University, Boston, MA

⁴ Laboratory of Cancer Biology and Genetics, National Institutes of Health, Bethesda, MD

123 - WOUND HEALING MODEL: STIMULANTS AND ANTAGONISTS

John J. Wille. Histogen, LLC., Eastamton, NJ 08060

124 - DISCOVERY OF A NOVEL MODULATOR OF EXTRACELLULAR MATRIX WITH THE POTENTIAL TO PROMOTE WOUND HEALING

R.A. Borowicz¹, V. Panagopoulos¹, M.O. DeNichilo¹, T.E. Rayner¹, TGR BioSciences Pty Ltd

125 - ABNORMAL COLLAGEN SYNTHESIS IN THE WOUNDS OF TIGHT SKIN MICE

Janson Sullivan¹, Donny Kakati¹, Elliot Carter², and Azin Agah¹

¹ Department of Biomedical Sciences, University of South Alabama, Mobile, AL 36688. ² Department of Pathology, School of Medicine, University of South Alabama, Mobile, AL 36688.

126 - DECREASED FIBROCYTES IN POST-BURN HYPERTROPHIC SCAR AFTER TREATMENT WITH INTERFERON ALPHA-2B

E Tredget, J Wang, H Jiao, T Stewart, H Shankowsky, P Scott, University of Alberta, Edmonton, AB Canada

127 - RAC1 IS REQUIRED FOR TISSUE REPAIR, DERMAL HOMEOSTASIS AND FIBROGENIC RESPONSES IN VIVO

Shangxi Liu¹, Mohit Kapoor¹, Xu Shi-wen², Laura Kennedy¹, David J. Abraham² and Andrew Leask¹

¹ The Canadian Institute of Health Research Group in Skeletal Development and Remodeling, Division of Oral Biology and Department of Physiology and Pharmacology, Schulich School of Medicine and Dentistry, University of Western Ontario, Dental Sciences Bldg., London, ON, Canada, N6A 5C1. ² Centre for Rheumatology, University College London (Royal Free Campus), Rowland Hill St., London, UK, NW3 2PF.

128 - INSULIN ATTENUATES HYPERINFLAMMATION IN HYPERTROPHIC SCAR CELLS

C.C. Finnerty, J. He, B. Herndon, G. Kulp, G.G. Gauglitz, D.N. Herndon, T. Huang, M.G. Jeschke

University of Texas Medical Branch, Galveston, TX USA

129 - Abstract has been pulled.

130 - EFFECTS OF MECHANICAL STRAIN ON SWINE WOUNDS-- CORRELATION WITH HUMAN HYPERTROPHIC SCARS

Bhatt KA, Vial IN, Kelantan M, Wu K, Park Y, Paterno J, Thangarajah H, Dauskardt R, Longaker MT, Gurtner GC, Stanford University School of Medicine, Stanford, CA

131 - ANIMAL MODELS OF EPITHELIAL-TO-MESENCHYMAL TRANSITION IN SKIN FIBROGENESIS AND WOUND HEALING

W Grimm and YP Han, Department of Surgery and Pathology University of Southern California Keck School of Medicine, Los Angeles, California

132 - THE EFFECT OF OCCLUSION ON SKIN HYDRATION AND SCARRING IN A RABBIT MODEL

CL Gallant-Behm, X Ding, TA Mustoe, Division of Plastic Surgery, Feinberg School of Medicine, Northwestern University, Chicago IL

133 - TRANSFORMING GROWTH FACTOR BETA 3 ELICITS ISOFORM SPECIFIC EFFECTS ON SCAR REDUCTION IN THE SKIN COMPARED TO TRANSFORMING GROWTH FACTOR BETA 1: MECHANISM OF ACTION STUDIES.

H. Lavery, J. Fenwick, P. Roby, N. Occleston, M. Ferguson and S. O'Kane., Renovo Group Plc, 48 Grafton Street, Manchester, M13 9XX. UK.

134 - INFLUENCE OF THE EPIDERMAL CELLS IN THE HYPERTROPHIC SCARS.

Simon F¹, Bergeron D¹, Mayrand D¹, Lopez-Vallé C.A², Genest H³, Roy M³, Moulin V¹.

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135 - MICROARRAY ANALYSIS OF DIFFERENTIAL GENE EXPRESSION IN MURINE CUTANEOUS WOUNDS TREATED WITH SEMIOCCCLUSIVE SILICONE GEL

Clark F. Schierle MD PhD, Xian Z. Ding MD PhD, Rami Skaliter PhD, Robert D. Galiano MD, Thomas A. Mustoe MD. Division of Plastic & Reconstructive Surgery, Northwestern University Medical School

136 - SECOND-HAND SMOKE CAUSES INJURY TO THE LIVER THAT RESULTS IN LIPID ACCUMULATION RESEMBLING NON-ALCOHOLIC FAT LIVER DISEASE (NAFLD)

H. Yuan and M. Martins-Green. Department of Cell Biology and Neuroscience, University of California, Riverside CA 92521.

137 - EPITHELIAL TO MESENCHYMAL TRANSITION IN HUMAN SKIN FIBROSIS

YP. Han, W. Grimm, and W. Garner, The Department of Surgery, The Keck School of Medicine of the University of Southern California

138 - CHARACTERIZATION OF THREE NOVEL GENES INVOLVED IN SCARLESS WOUND HEALING

Phillip H. Gallo, Latha Satish, Sandra Johnson, Fen Ze Hu, J. Christopher Post, Garth D. Ehrlich, and Sandeep Kathju Center for Genomic Sciences, Allegheny-Singer Research Institute, Allegheny General Hospital, Pittsburgh, PA.

139 - THE ROLE OF FULL THICKNESS SKIN GRAFTING AND STEROID INJECTION IN THE TREATMENT OF AURICULAR KELOIDS

N.A. Brown, MD; A.Y. Shteynberg, MD; M.H. Bluth, MD, Ph.D; F.R. Ortega, MD. SUNY Downstate Medical Center: Department of Surgery

140 - HEME OXYGENASE MEDIATES PROTECTION AGAINST CURCUMIN-INDUCED FIBROBLAST APOPTOSIS

A. Scharstuhl, R. Mutsaers, B. Pennings, F. Russel & F. Wagener

Department of Pharmacology & Toxicology, Radboud University Nijmegen Medical Centre, Nijmegen, The Netherlands

141 - APPLICATION OF LASER CAPTURE MICRODISSECTION FOR TRANSCRIPTIONAL PROFILING OF RABBIT HYPERTROPHIC SCAR TISSUE

N. K. Roy, S-X Jia, T. A. Mustoe. Wound Healing Research Laboratory, Department of Surgery, Northwestern University, Chicago, IL 60611, USA

142 - MORE SUPERFICIAL WOUNDS RESULT IN LESS HYPERTROPHIC SCARS? NOT NECESSARILY -----EXPLORING A NEW SCAR MODEL

Shengxian Jia, Thomas Mustoe, Wound Healing Research Laboratory, Northwestern University, Chicago, IL, USA

143 - HYPERTROPHIC SCARRING IS CHARACTERIZED BY DIFFERENTIAL IMMUNE CELL PROPORTION AS WELL AS CYTOKINE AND RECEPTOR EXPRESSION

E. Krötzsch, R.M. Salgado, Ch. Hidalgo and L. Alcántara.

Connective Tissue Laboratory, División de Investigación Biomédica. C.M.N. "20 de Noviembre", I.S.S.S.T.E., Mexico City, Mexico.

144 - COLLAGEN-POLYVINYLPIRROLIDONE DOWNMODULATES INFLAMMATORY PROCESS IN HYPERTROPHIC SCARS BY A DIFFERENT MECHANISM OF GLUCOCORTICOIDS

R.M. Salgado, E. Krötzsch. Connective Tissue Laboratory, División de Investigación Biomédica. C.M.N. "20 de Noviembre", I.S.S.S.T.E., Mexico City, Mexico.

144a - MELANOCORTIN 1 RECEPTOR AND ALPHA-MELANOCYTE STIMULATING HORMONE LOCALIZATION IN FIBROPROLIFERATIVE SCARS

L.A. Muffley, A.M. Hocking, K.Q. Khu, L.H. Engrav, N.S. Gibran; Surgery Department, University of Washington, Seattle, WA

145 - RNA INTERFERENCE OF P53 IMPROVES DIABETIC WOUND HEALING

CC Chang, VD Thanik, BR Branson, SM Gupta, JP Levine, SM Warren, PB Saadeh, Institute of Reconstructive Plastic Surgery, NYU School of Medicine

146 - NON-VIRAL GENE TRANSFER VIA LIPOSOMES IN A PORCINE MODEL OF BURN, EXCISION AND AUTOGRAFTING

Ludwik K. Branski, David N. Herndon, Oscar E. Masters, William B. Norbury, J. Regino Perez-Polo, Robert A. Cox, Thomas Albrecht, Daniel L. Traber, and Marc G.

JeschkeShriners Hospital for Children and University of Texas Medical Branch, Galveston, TX

147 - DEVELOPMENT OF AAV2-VEGF FOR GENE THERAPY- IN VITRO KINETICS OF GENE EXPRESSION

Xiao Tian Wang, Jiangzhong Ma, Jin Bo Tang, Paul Yu Liu.

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148 - GHK AND THE BIOCHEMICAL MECHANISM OF REMODELING

Loren Pickart, PhD, presenting author, email lorenpickart@skinbiology.com Francoise Pickart, BS. corresponding author, email fpickart@gmail.com

149 - IMPLANTABLE MEDICAL DEVICES: EXPERIENCE IN A COMPREHENSIVE WOUND CARE PROGRAM

G. Perdrizet, MD, PhD and I. Qureshi, MD, Center for Wound Healing and Hyperbaric Medicine, Hartford Hospital and University of Connecticut, Hartford, Connecticut

150 - PREVENTING PRESSURE ULCERS USING SKIN ASSESSMENT COMPUTER CHARTING TEMPLATES WITH THE BRADEN

Joyce Stechmiller, ARNP, PhD; Lillian Ortiz, MSN, CWCN; Nancy Brainard ARNP; Linda Cowan, ARNP, CWS; Shirl Rogers ARNP CWCN; Michelle Cox-Henley, MSN; Beverly Childress, PhD

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151 - STRESS DYSREGULATES PLASMA AND TISSUE CYTOKINES DURING HUMAN MUCOSAL HEALING

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²Institute for Behavioral Medicine Research, The Ohio State University, Columbus, OH

152 - INTERLEUKIN-1BETA AS A MARKER OF MUCOSAL INJURY AND INFLAMMATION

Tripti Singh, Mark Barsic, Joseph E. Dohar, Patricia A. Hebda

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153 - ROLE OF MACROPHAGES IN SKIN WOUND HEALING

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154 - CYTOKINE AND CHEMOKINE GENE EXPRESSION IN EARLY SKIN AND MUCOSAL WOUNDS

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155 - NETWORK BASED ANALYSIS TO DETERMINE THE ROLE OF INFLAMMATION IN WOUND HEALING

NB Menke, VR Feeser, KR Ward, RF Diegelmann, Virginia Commonwealth University, Richmond, VA USA

156 - THE SIGNIFICANCE OF CELLULAR DEBRIDEMENT IN THE RESOLUTION OF WOUND INFLAMMATION

S. Roy, S. Khanna, C. Kauh, K.J. Caution, S. Biswas and C. K. Sen

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157 - A NOVEL TRANSGENIC STRATEGY TO OVER-EXPRESS LIGHT/TNFSF14 IN MOUSE TISSUES

Petreaca, M.L. and Martins-Green, M., University of California, Riverside, CA

158 - PHYSIOLOGIC BASIS FOR HBO₂-PRECONDITIONING: WHAT EVERY WOUND CARE CLINICIAN NEEDS TO KNOW

G.A. Perdrizet, MD, PhD, and L.E. Hightower, PhD,

The Center for Wound Healing and Hyperbaric Medicine, Hartford Hospital, Hartford, CT., and Cell and Molecular Biology, University of Connecticut, Storrs, CT

159 - CRITICAL ROLE OF ARGINASE IN NITRIC OXIDE METABOLISM IN PRECLINICAL SWINE WOUND HEALING

Leni Moldovan, Nicanor I. Moldovan, Jian Sun, Valerie Bergdall, Sabyasachi Biswas, Chandan K. Sen, Jay L. Zweier

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160 - ANKLE MOBILITY AND CHRONIC VENOUS DISORDERS

B. Pieper¹, T.N. Templin¹, T.J. Birk¹, R.S. Kirsner²

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161 - EXCISIONAL WOUND HEALING IS DELAYED IN A MURINE MODEL OF CHRONIC RENAL FAILURE

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162 - LOSS OF CXCL12 CHEMOKINE RECEPTOR 3 SIGNALING CAUSE A DELAY IN EPIDERMAL AND DERMAL MATURATION AND LEADS TO HYPERTROPHIC SCARRING

Cecelia C. Yates^{1,2}, Diana Whaley¹, Richard Bodnar¹, and Alan Wells^{1,2}

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Pittsburgh PA, Tuskegee University, Carver Research Foundation², Tuskegee AL

163 - TINETTI TESTING ASSOCIATED WITH CHRONIC VENOUS DISORDERS AND INJECTION DRUG USE

B. Pieper¹, T.N. Templin¹, T.J. Birk¹, R.S. Kirsner²

¹Wayne State University, Detroit, MI USA

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164 - DERMAL FIBROBLASTS AND STROMAL PROGENITOR CELLS FROM DIABETIC MICE HAVE NO IMPAIRMENT IN CONTRACTION OF THE EXTRACELLULAR MATRIX

Robert A. Redden¹, Susan W. Volk², Liping Zhang¹, Edward J. Doolin¹, and Kenneth W. Liechty¹

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165 - THE OHIO STATE UNIVERSITY COMPREHENSIVE WOUND CENTER (CWC) CHRONIC WOUND TISSUE BANK

Chandan K. Sen, Sashwati Roy, Rakesh Dhaval, Jyoti Kamal, Lynn Lambert*, Katy Rowland*, James Patrick* and Gayle M. Gordillo

The OSU Comprehensive Wound Center (CWC), Davis Heart and Lung Research Institute and The Information Warehouse (IW) The Ohio State University Medical Center, Columbus, Ohio, and *National Healing Corporation (NHC), Boca Raton, Florida

166 - THE BIOMECHANICAL PROPERTIES OF DIABETIC SKIN ARE INFERIOR AT BASELINE COMPARED TO NON-DIABETIC CONTROLS.

Lind RC^{1,3}, Herdrich BJ^{1,2}, Soslowsky LJ², Liechty KW^{1,2}

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167 - RISK FOR PERIPHERAL ARTERIAL DISEASE IN DRUG USE

B. Pieper¹, T.N. Templin¹, R.S. Kirsner², T.J. Birk¹

¹Wayne State University, Detroit, MI USA

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168 - DEVELOPING AN EFFECTIVE INFECTION CONTROL PROGRAM IN A WOUND AND HYPERBARIC MEDICAL CENTER

Bettina Magliato RN, MS, CIC, CWCN, CHRN

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169 - SUPER-ABSORBENT ANTIMICROBIAL MATERIALS FOR INCONTINENCE APPLICATIONS

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170 - POLYACRYLATE SUPERABSORBER INHIBITS MMP ACTIVITY IN CHRONIC WOUND FLUID

Eming, S.A., Smola-Hess, S., Malchau, G., Hartmann, B., Krieg, T., Smola, H.
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171 - WOUND CARE SPECIALIZATION: INTERDISCIPLINARY LEARNER FOCUSED BASIC AND ADVANCED EDUCATION PROGRAM

Joyce Stechmiller, ARNP, PhD; Linda Cowan, ARNP, CWS; Nancy Brainard ARNP; Lillian Ortiz, ARNP CWCN; Shirl Rogers ARNP CWOCN; Michelle Cox-Henley, MSN; Beverly Childress, PhD
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North Florida/South Georgia VHS Gainesville, FL 32610

172 - EFFECT OF LOCALLY RELEASED OXYGEN ON ISCHEMIC WOUND HEALING

Shengxian Jia, Xianzhong Ding, David Roe, Thomas Mustoe
Wound Healing Research Laboratory, Northwestern University, Chicago, IL, USA

173 - AN EVALUATION OF A TOPICAL DISSOLVED OXYGEN DELIVERY DEVICE ON DERMAL CELL VIABILITY

D.F. Roe¹, C.J. Berg¹, D.A. Ladizinsky, B.L. Gibbins¹,¹AcryMed, Inc. Beaverton, OR USA

174 - IMPAIRED PROLIFERATION, MIGRATION, AND DIFFERENTIATION UNDERLIE THE ATTENUATED RESPONSE AND FUNCTION OF MESENCHYMAL STEM CELLS IN DIABETIC ISCHEMIA

H Thangarajah, E Chang, IN Vial, KA Bhatt, JM Paterno, & GC Gurtner, Stanford University School of Medicine, Stanford, CA

175 - MESENCHYMAL STEM CELLS DIFFERENTIATION INTO OSTEOBLASTS ON 2D AND IN 3D FIBRIN SCAFFOLDS

Melissa Chow, Haison Duong, Benjamin Wu, Bill Tawil, UCLA Department of Bioengineering

176 - EXTENDED INTERVAL PULSE DOSING OF PARENTERAL ANTIBIOTICS, CASE SERIES

A. Siddiqui¹, L. Sirois², J. Gulati²,¹Division of Plastic Surgery² Pharmacy Services Henry Ford Hospital, Detroit MI USA

177 - AMD3100 LEADS TO IMPROVED DIABETIC WOUND HEALING

Robert J Allen, Jr, Clarence D Lin, Phuong D Nyguen, Evan Garfein, Stephen M Warren Institute of Reconstructive Plastic Surgery New York University School of Medicine

178 - PURACOL DRESSING INHIBITS PROTEASE ACTIVITIES IN HUMAN CHRONIC WOUND FLUIDS

J. Azeke, O. Moloye, D. Gibson, and G. Schultz, University of Florida, Gainesville, FL USA

179 - ENHANCING SKIN WOUND HEALING BY DIRECT DELIVERY OF INTRACELLULAR ADENOSINE TRIPHOSPHATE

J. Wang, M. Li, S. Chien, University of Louisville, Louisville, KY USA

180 - IN VITRO BIOCOMPATIBILITY CONSIDERATIONS OF SILVER IN WOUND HEALING

C.J. Berg, D.F. Roe, B.L. Gibbins, AcryMed, Inc. Beaverton, OR USA

181 - THE MULTIDISCIPLINARY MANAGEMENT OF COMPLEX SCALP WOUNDS

G. Perdrizet, MD, PhD, B. Allen, MD, C. Rader, MD., D. Bass, MD, A. Cech, MD, C. Castiglione, MD, A. Babigian, MD
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182 - UP-REGULATION OF PRO- AND ANTI-INFLAMMATORY CYTOKINE EXPRESSION DURING INTRACELLULAR ENERGY DELIVERY FOR WOUND CARE

Q.Zhang, Wan R, Mo Y, Wang J, S. Chien

183 - BLUE LIGHT ILLUMINATION IMPROVES WOUND HEALING IN A SKIN FLAP MODEL IN THE RAT

Peter Dungal, Rainer Mittermayr, Martina Hofmann, Joachim Hartinger, Tatjana Morton, Heinz Redl, Martijn van Griensven, Ludwig Boltzmann Institute for experimental and clinical traumatology, Vienna, Austria

184 - TOPICAL OXIDIZING AGENTS EFFECT ON COLLAGEN AND DERMAL EQUIVALENTS

Laura Vick, MD¹, Annette B. Wysocki, PhD^{1,2}, ¹School of Medicine, Department of Surgery, ²School of Nursing, University of Mississippi Medical Center, Jackson, MS

185 - COMPARISON OF NEGATIVE WOUND PRESSURES IN CHILDREN

S. McCord¹, O.O. Olutoye², ¹Texas Children's Hospital, ² Baylor College of Medicine, Houston TX.

186 - Abstract has been pulled.

187 - HYPERBARIC TREATMENT IN THE MULTIMODAL MANAGEMENT OF NECROTIZING WOUND INFECTIONS

E Golembe; R Joseph; K Droz; D Buchnea, The Hyperbaric & Wound Healing Center Brookdale University Hospital

188 - Withdrawn

189 - EXTRACORPORAL SHOCK WAVE THERAPY PROTECTS TISSUE AGAINST ISCHEMIA INDUCED NECROSIS IRRESPECTIVE OF APPLICATION TIME

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