



# 8<sup>th</sup> International Conference on Biotherapy

November 11-14, 2010

Universal Studios Hilton  
Los Angeles, California

*Jointly Sponsored by:*

The University of Cincinnati  
The BTER Foundation  
The Hope of Healing Foundation



**8<sup>th</sup> International Conference on Biotherapy**  
**Los Angeles, California**  
**November 11-14, 2010**

**Welcome to the International Conference on Biotherapy!** This is a great opportunity to meet a wide audience of open-minded doctors, nurses, physical therapists, researchers, biologists, journalists and community leaders in your fields. Attendees at this conference are mostly healthcare professionals who use or plan to use traditional products as well as cutting-edge biotherapies to address medical problems such as chronic wounds, diabetes, vascular disease, neurological disorders, paralysis, chronic pain, rheumatology, autoimmune disease, and aging. Veterinarians, scientists, students and journalists are also here.

Biotherapy refers to the use of living organisms to treat or diagnose medical illnesses. Biotherapeutic modalities address some of the most difficult and expensive medical problems of our day: wound care (pressure ulcers, diabetic foot ulcers, chronic leg ulcers), amputations (over 82,000 performed annually); re-attachment/reconstructive surgery; neuromuscular and autoimmune diseases (multiple sclerosis, chronic pain syndromes, arthritis, asthma, psoriasis and Crohn's disease). Biotherapies not only effectively address these health care needs, but do so in financially and environmentally responsible ways. By advancing our understanding of biotherapies, we will improve our overall understanding of disease and immunology, and thereby continue advancing both biotherapeutic and health care overall in the U.S. and worldwide.

Two biotherapeutic modalities --- maggot therapy and leech therapy --- have already advanced to the point that FDA-regulated medicinal leeches and maggots are now legally marketed in the U.S. Two more are currently undergoing clinical trials, with the intent of FDA marketing clearance: bee venom therapy and phage therapy. Given that, one would think that most therapists (physicians, surgeons, nurses, physical therapists) would be aware of these biotherapies. Yet, a study of biotherapy conducted in 2006-2008 demonstrated that the vast majority of health care workers were familiar with no more than 2 of 7 biotherapeutic modalities. Knowledge base was further explored for one of these: maggot therapy. The data, as presented in a paper at the Symposium for Advanced Wound Care in 2007, indicated that most wound care therapists had never seen or performed maggot therapy. Most of the non-users described one or more misconceptions as the reason for not offering maggot therapy to their patients: they were not available, they were too expensive (and the cost could not be recovered by

insurance), or patients would not accept the therapy. Yet 85% of non-therapists (potential patients) also included in the survey stated that, they would be willing to undergo maggot therapy for a non-healing wound.

All three co-directors of this conference have lectured often on biotherapy topics, especially maggot therapy. There has been increasing interest in the field of biotherapy from nurses, physicians and scientists, wanting to know more about it and how to use it. Besides that, this is the 8<sup>th</sup> international conference, and the first one held in the U.S. Respondents from the previous international conferences have always rated the conference very high and indicated it should be repeated. Each year there are more practitioners and more information to add to this growing field. The United Kingdom, Germany, Turkey, Israel and South Korea have each hosted one or more international meetings on biotherapy over the past 15 years. As such, this conference is much needed to educate clinicians and the public about biotherapeutics, and advance the cause of biotherapeutics use in medicine.

One thing that is frequently asked, both from patients and attendees at conferences, is how does one learn to perform biotherapy, such as maggot or leech therapy? For this reason, several concurrent hands-on workshops have been added to this year's conference agenda. As more providers and patients become aware of biotherapy options, the demand for this education will increase, and this conference is a way to provide the needed education.

Topics that will be included in this conference include maggot therapy, leech therapy, bee venom therapy, phage therapy, fish therapy, and therapeutic horsebackriding. The most frequently requested information clinically is regarding maggot and leech therapy. There is surprisingly much interest in bee venom therapy and fish therapy, but kept more quiet for concern that it is not "main stream". Phage therapy is of great interest to the scientists who attend conferences such as this. Of wide public and clinician interest is hippotherapy, the use of horses in therapeutic riding. Worldwide, this is probably the largest biotherapy congress. Providing information and education on these biotherapeutic modalities has the potential to positively impact clinical outcomes in many arenas.

### **Objectives of Conference**

Broad objectives of the conference are to:

1. Bring together the world's leading researchers and clinicians in biotherapy
2. Publicly discuss recent clinical and basic science advances (disseminate new data)
3. Communally develop recommendations regarding research and development needs in biotherapy (formulate a research agenda)

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4. Identify and involve interested young persons into this small but growing health care community (career support and development)
5. Widely publicize the findings and recommendations that come out of the Conference (disseminate new data beyond those who attend the conference)

Based on these desired results for this conference, the learning objectives for this activity, following CME guidelines, are listed below. Learning objectives are a tool to assist in identifying the specific steps that will be taken to address the gap between an identified need and the desired result. Learning objectives also help learners understand the specific result they can expect to achieve by participating in this educational activity.

As a result of participating in this activity, participants should be able to:

1. Describe current research on biotherapy
2. Describe multiple biotherapeutic modalities and how to select the appropriate modality
3. Specifically learn use of larval therapy
4. Specifically learn use of leech therapy
5. Understand use of bee venom and bacteriophage therapy
6. Describe use of service animals in hippotherapy and canine therapy

We welcome you to this 8<sup>th</sup> International Conference on Biotherapy, where we celebrate the growth and acceptance of biotherapy in the diagnosis and treatment of human conditions. Our hope is that you will eagerly learn and share at this conference and incorporate all you learn here into your everyday work.

Sincerely, on behalf of the Conference Co-Directors,



Ronald Sherman, MD,  
Director, BioTherapeutics,  
Education & Research (BTER)  
Foundation



Aletha Tippet, MD  
President, Hope of Healing  
Foundation



Kosta Mumcuoglu, PhD  
President, International  
Biotherapy Society

## **DISCLOSURE STATEMENTS REQUIRED BY ACCME**

### **Disclosure of Planning Committee Members and Speakers**

In accordance with the ACCME Standards for Commercial Support the speakers for this course have been asked to disclose to participants the existence of any financial interest/and or relationship(s), eg. Paid speaker, employee, paid consultant on a board and/or committee for a commercial company that would potentially affect the objectivity of his/her presentation or whose products or services may be mentioned during their presentation. The following disclosures were made:

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Lynn Fischer—Compliance, Program Director-Live Programs, Office of Continuing  
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Aletha Tippet, MD *No relevant relationships; President Hope of Healing Foundation*

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*Foundation; Co-owner Monarch Labs. Spouse-Employee Monarch Labs*

Kosta Mumcuoglu, PhD *No relevant relationships*

#### **Speaker disclosures:**

Felio Bello *Oral disclosure will be made prior to presentation*

Rick Bradnam *Oral disclosure will be made prior to presentation*

Theodore Cherbuliez *No relevant relationships. Presentation will include discussion of  
off-label products*

John Church *No relevant relationships*

Olga S. Gileva *No relevant relationships.*

Lasha Gogokhia *No relevant relationships*

Yousry Gohar *No relevant relationships*

Martin Grassberger *No relevant relationships*

Claire Guest *No relevant relationships.*

Lutz Heuer *Employee Agiltera GmbH +Co*

Domen Jaklic *No relevant relationships*

Alana Jolley *No relevant relationships*

Frederique Keller *No relevant relationships*

Christopher M. Kim *No relevant relationships.*

Chris Kleronomos *No relevant relationships. Presentation will include discussion of  
off-label products*

Andrew Kochan *Oral disclosure will be made prior to presentation*

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Elizabeth Kutter *No relevant relationships.*

Tatiana Libik *No relevant relationships.*

Paul MacIntyre *Oral disclosure will be made prior to presentation*

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Sharon Mendez *Board Member BioTherapeutics Education & Research*

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David Pritchard *No relevant relationships.*

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Peter Takac *Oral disclosure will be made prior to presentation*

Tarek Tantawi *No relevant relationships*

Syed Mohammed Naveed Ul Huda *Oral disclosure will be made prior to presentation*

Debora Wade *No relevant relationships*

### **Off-Label Disclosure Statement**

Faculty members are required to inform the audience when they are discussing off-label, unapproved uses of devices and drugs. Physicians should consult full prescribing information before using any product mentioned during this educational activity.

### **Learner Assurance Statement**

According to the disclosure policy of the University of Cincinnati College of Medicine, all faculty, planning committee members, and other individuals who are in a position to control content are required to disclose any relevant relationships with any commercial interest related to this activity. The existence of these interests or relationships is not viewed as implying bias or decreasing the value of the presentation, and any conflict of interest is resolved prior to the activity. Disclosure will be made at the time of the activity.

### **Commercial Acknowledgement**

*We gratefully acknowledge Monarch Labs for their support of this educational activity.*

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The opinions expressed during the educational activity are those of the faculty and do not necessarily represent the views of the University of Cincinnati. The information is presented for the purpose of advancing attendees' professional development.

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**Felio Bello, BSc, MSc, PhD (Colombia)** is Main Professor in the Laboratory of Medical Entomology, Faculty of Natural Sciences and Mathematics, Rosario University in Bogotá D.C., Colombia. He earned his BSc at the University of the Atlantic in Barranquilla-Colombia, and his MSc and PhD at Javeriana University in Bogotá. An expert in entomology, parasitology and vector genetics, he has been a professor for over 25 years. Professor Bello is the winner of numerous teaching and research awards, and is a member of the Colombian Society of Entomology, the Colombian Association of Biological Sciences, and the Colombian Society of Parasitology and Tropical Medicine. His ongoing research interests include maggot debridement therapy, mosquitoes and Sand flies

**Rick Bradnam (Canada)** Engineering Manager of Pillar & Post Inn, Spa & Conference Center, one of the Vintage Hotels. He has extensive experience in facilities design and management, and has been working long and hard with Garra rufa “doctor fish” as a health aid.

**Theodore Cherbuliez, MD (USA)** a psychiatrist in New England, has long recognized the special relationship between honey bees and humans - the beekeeper and the apitherapist. Working with leaders in the apitherapy field, such as Charles Mraz and Brad Weeks, Dr. Cherbuliez himself soon became one of apitherapy’s leaders and movers. He has been President or Vice-President of the American Apitherapy Society for most of its history, and is the President of the Apitherapy Commission of Apimondia, the International Association of Beekeeping Organizations. Dr. Cherbuliez has traveled around the world teaching and training others in the art and science of Apitherapy.

**John C. T. Church, MA, MB, BCh, DRCOG, DTM&H, MD, FRCSE (United Kingdom)** was born and raised in Uganda, the son of medical missionary parents. He moved to the UK at age 15, received his early medical education at Cambridge and St. Bartholomew’s Hospital in London, and went on to hold posts in orthopaedic, and obstetrics and gynaecology. He returned to Rwanda in 1959 to run his father’s mission hospital, during which time he earned his MD and FRCSE. Over the next several decades, Dr. Church founded, headed, and/or taught in various Orthopaedics departments in East Africa and the UK. Even in the UK, he continued to work to improve world health through organizations such as World Orthopaedic Concern. After retiring from the National Health Service in 1991, he devoted himself full-time to developing biotherapy. He was the primary force behind the first maggot therapy programs in the UK, as well as the first and subsequent International Conferences of Biotherapy. He founded the International Biotherapy Society in 1996, and can easily be called maggot therapy’s ambassador, having travelled world-wide to inspire others to use biotherapy to help with wound care. As maggot therapy became firmly established in the UK and Europe, Dr. Church turned his attention to canine olfactory detection, playing a pivotal role in quickly advancing that field as well. Dr. Church continues to play an active role in the biotherapy community and continues to advance our understanding and practice of wound care, rehabilitation, and world health.

**Olga S. Gileva, MD, PhD (Russian Federation)** is Professor in the Department of Therapeutic Dentistry at Perm State Academy of Medicine (PSMA) Perm, Russia. She studied extensively at PSMA, where she earned both her MD and PhD. Her medical thesis was “Experimental background, clinical and functional efficacy of hirudotherapy in complex treatment of oral mucosal lesions in patients with different systemic pathologies.” Professor Gileva is an active teacher, a prolific writer, and has received many

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awards for both. Her research interests include diseases of oral mucosa and periodontal diseases, oral manifestations of systemic diseases, dental problems in AIDS patients, and biotherapy (hirudotherapy, hirudopharmacotherapy, phagetherapy). Professor Gileva holds many positions, including Vice-rector in international affairs, Dean for foreign education, Academy of Science Committee Member, and Vice Chair of the Ethics Committee at PMSA; Expert's Committee Member at Perm Regional Dentist Association; Vice-president of the Russian Hirudotherapy Association; Academician for the Russian Academy of Natural Sciences; Consulting Professor for the Russian UST Health Resort; and membership in the Russian Dentist's Association, the European Association of Oral Medicine, and the International Biotherapy Society.

**Claire Marie Guest, BSc, MSc (United Kingdom)** is CEO and Consultant in Training and Behaviour at the Cancer Detection and Medical Assistance Dog Programme in Buckinghamshire, UK. She received her BSc and MSc in Psychology at the University of Warwick. She has taught and written extensively on the topic of canine biodetection. She also has extensive experience in canine assistance for the hearing- and visually-impaired. Ms. Guest is a member of the Association of Pet Behaviour Counsellors (Chair or Vice-Chair of APBC since 2000), the International Society for Anthrozoology (ISAZ), The Society for Companion Animal Studies (SCAS), Companion Animal Behaviour Therapy Study Group (CABTSG), and the British Society for Mental Health and Deafness (BSMHD). In her leisure time she is an active and competitive horse rider.

**Lasha Gogokhia, MD (USA)** is a Postdoctoral Fellow in the Department of Pathology at the University of Utah. He received his medical training at Tbilisi State Medical University, in Tbilisi, Georgia, and did his general surgery training at Tbilisi State Medical University Central Clinic. He completed the Surgical Infection and Phage Therapy Training Program at Tbilisi State Medical University. Dr. Gogokhia has conducted both laboratory and clinical trials research on bacteriophage, most recently With Dr. Elizabeth Kutter at Evergreen State College in Olympia, Washington, and Dr. Randall Wolcott at the Southwest Regional Wound Care Center in Lubbock, Texas. He has just returned from presenting his research at the First Colombian Meeting on Bacteriophage Biology and Phage Therapy, University of Los Andes, Bogota, Colombia.

**Yousry M. Gohar, PhD (Egypt)** is Professor of Medical Microbiology, Faculty of Science, Alexandria University, Alexandria, Egypt. Professor Gohar is well-published in medicine and microbiology, and over the past decade has advanced our understanding of maggot therapy as well, especially concerning the antimicrobial nature of maggot secretions.

**Martin Grassberger, MD, PhD (Austria)** received his Doctorate in Medicine, his MSc, and his PhD from the University of Vienna, where he is now an Adjunct Professor. His formal education includes training in entomology and forensic entomology, anatomy, microbiology and acupuncture. Professor Grassberger has performed and published critical research in the field of biotherapy, especially maggot therapy and ichthyotherapy. He has been a prolific writer, and a manuscript reviewer for over a dozen professional journals, including *Clinical Infectious Diseases*, *Evidence Based Complementary and Alternative Medicine*, *Expert Review of Dermatology*, *Forensic Science International*, *Infection*, *Intensive Care Medicine*, *International Journal of Legal Medicine*, *Journal of Alternative and Complementary Medicine*, *Journal of Insect Behavior*, and *Medical and Veterinary Entomology*. Dr. Grassberger is an active member of the the International Biotherapy Society (IBS), the Association for Biological Therapy (Gesellschaft für Biologische Therapie e.V., Germany), the Austrian Society of Pathology (Österreichische

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Gesellschaft für Pathologie, ÖGP), the International Society for Infectious Disease (ISID), the European Association for Forensic Entomology (EAFE), the Study Group on Forensic Age Diagnostics (Arbeitsgemeinschaft für Forensische Altersdiagnostik, AGFAD), the German Association for Medical Entomology and Acarology (Deutsche Gesellschaft für Medizinische Entomologie und Acarologie, DGMEA e.V.), and the Association for Forensic Archaeology (Vienna)

**Lutz Heuer, PhD (Germany)** is currently a Research Fellow at Agiltera GmbH & Co.KG, one of the preeminent European producers of medical grade maggots. He earned his PhD at the University of Braunschweig, and has gleaned research experience in both the academic and corporate world, including Cambridge University (United Kingdom) and Bayer AG. He has received several grants and awards, including one from the German Chemical Society.

**Domen Jaklic, PhD (Slovenia)** is professor in the Department of Biology, Biotechnical Faculty, University of Ljubljana, in Slovenia. He has been studying the green blow fly, *Lucilia sericata*, for many years, and has isolated antimicrobials in the maggot's secretions.

**Alana Jolley (USA)** is Professor of Cultural Anthropology at Saddleback College in Mission Viejo, California. She received her BA and MA in Anthropology at the California State University in Fullerton. She is also a Certified Nutritional Consultant and has studied writing and children's literature. Alana Jolley is past Museum Director, Mission San Juan Capistrano Museum in San Juan Capistrano, CA, and currently is a member and consultant to the Board of Directors of the BTER Foundation. She is also a member of Global College of Natural Medicine, Association for Supervision and Curriculum, California Mission Studies Association, and the American Anthropological Association. Her current research projects are: Paleolithic Palate for the Post-Modern Eater: History of Eating Patterns and Cookbook, and William Stevenson Baer: Ethnography of a Scientist.

**Frederique Keller, LAc (Canada)** is a licensed acupuncturist and medical herbalist in a private practice that also incorporates classical homeopathy and bee venom therapy as well as honey, pollen, propolis, royal jelly and bee bread where applicable. She works in a second office specializing in sports and spinal injuries. She was born in Paris, lived in France, Saudi Arabia, Lebanon, the United States, and has traveled and worked all around the globe. In her early years, she lived with nature: sewing, cooking, farming, preparing her own meat, and being treated, when ill, by her grandmother with homeopathy, plants, or bee venom. While studying at the Pierre et Marie Curie School of Medicine in Paris and working as a Chef's apprentice, an injury led her to receive treatment from an acupuncturist/naturopathe. Since then, she has studied and practiced acupuncture and Oriental Medicine, "not only for its immense body of history and ancient knowledge, but as a forum for incorporating classical homeopathy, herbs, and bee venom therapy." Frederique Keller has been a member of the American Apitherapy Society since 1985, and is currently the AAS President.

**Christopher M. Kim, MD (Korea/USA)** is Visiting Professor at the Biomedical Center, Complimentary and Alternative Medicine, Graduate School, New Jersey Medical & Dental & Chief Professor at the Apitherapy Clinic, CHA University Hospital, Seoul, Korea. He is also the Chief Advisor at the Pain Center, Seoul, Korea. He was Founder and 1st President of the American Apitherapy Society (AAS), and in recent years, he has been a Chief Advisor for AAS and President of the International Pain Institute, New Jersey, USA. Among his many awards is the Korean President's Medal & Decoration – The Order of the National

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Science Technology. Professor Kim's medical specialty is Pain Medicine, with a subspecialty in Natural Medicine and Biotherapy. He is Board Certified in Pain Medicine, Electro-Medicine, Medical Acupuncture, and Medical Thermography. He has decades of clinical and research experience in bee venom therapy.

**Dr. Chris Kleronomos, DAOM, L.Ac., FNP, RH (AHG) (USA)** is a Staff Provider & Integrative Medicine Specialist at the Salem Comprehensive Pain Clinic in Salem, Oregon, where he conducts and implements comprehensive evaluations and treatment plans for chronic pain patients. He describes his philosophy as a belief in a truly integrated model of healthcare through the practice of biomedical and traditional modalities. Dr. Kleronomos earned his BA in Foreign Affairs/Philosophy from the Dominican University, and his Doctorate of Acupuncture & Oriental Medicine from Bastyr University. He received his Nurse Practitioner qualifications (Family Practice) at Seattle University. Among his many special trainings and aptitudes are: Oncology Acupuncture (Sloan-Kettering), Acupuncture Detox Specialist (NADA), and Professional Level Registered Herbalist (AHG). Dr. Kleronomos is a Founding Member and clinical consultant of the Biotherapeutics, Education, & Research (BTER) Foundation, and Board Member of the American Apitherapy Society, and Professional Member of the American Herbalist Guild, and a member of the Sigma Theta Tau Honor Society of Nursing.

**Andrew Kochan, MD (USA)** is a medical specialist in chronic pain and in physical therapy and rehabilitation, with extensive clinical and research experience in bee venom therapy and prolotherapy. He established the Kochan Institute of Healing Arts Research in 2001, for the purpose of doing research into the uses of both prolotherapy and apitherapy. He has conducted several research studies into the healing properties of both. Dr. Kochan graduated with a BA in Chemistry from Miami University in Oxford, Ohio, and received his MD from Washington University School of Medicine in St. Louis, Missouri. He then went on to complete a two year Research Fellowship at the UCLA Department of Orthopaedic Surgery Bioengineering Laboratory in 1981 and a residency in Physical Medicine and Rehabilitation at the University of Southern California /LA County Medical Center and Northridge Hospital Medical Center. Dr. Kochan is past President of the American Apitherapy Society and currently on the AAS Board of Directors. In addition, he is a member of the Phi Beta Kappa and Phi Kappa Phi honorary societies, the American Medical Association, the American Association of Orthopaedic Medicine, the American Pain Society, and the Los Angeles County Medical Association.

**Milan Kozánek, PhD (Slovakia)** is Head of the Department of Entomology at the Institute of Zoology, Slovak Academy of Sciences (IZ SAS), where he is responsible for creating and operating the national program: "Fauna of Slovakia." In addition to leading 3 projects dedicated to the taxonomy, morphology, and fauna of several Dipteran (fly) families, he is also the Deputy Project Leader of the IAEA Project: Feasibility Assessment for Sterile Insect Mass Rearing Facility in Slovakia. Dr. Kozánek studied at Stredná Všeobecnovzdelávacia Škola, followed by Comenius University, Faculty of Natural Sciences, both in Bratislava, Slovakia. He earned both his MSc and his PhD at the Institute of Experimental Phytopathology and Entomology, Slovak Academy of Sciences (IEPE SAS). Dr. Kozánek is a productive researcher and writing member of several editorial boards, Vice-President of the Slovak Entomological Society, and Secretary of Section II (Medical, Biological, Chemical, Agricultural and Veterinary Sciences) of the Slovak Academy of Sciences.

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**Elizabeth M. Kutter, PhD (USA)** is Professor of Biophysics at The Evergreen State College, in Olympia, Washington. She is also Visiting Scientist at the University of California, San Francisco, and Visiting Scientist at the USSR-US Academy of Sciences program in Moscow, Pushchino and Tbilisi. Professor Kutter earned her BSc in Mathematics at the University of Washington, Seattle, Washington, and her PhD in Biophysics at the University of Rochester, New York. Professor Kutter is well-published, well-funded and well-respected by her virology and genetics peers. She chaired the NIH Recombinant DNA Advisory Committee, organizes the Biennial Evergreen International Phage Biology Meetings, sat on the Board of Directors and Human Subjects Review Board of Bastyr University, is on the editorial board of Encyclopedia of Genetics, and has received numerous honors.

**Tatiana Libik, PhD (Russian Federation)** is an Assistant in the department of propaedeutics and physiotherapy of dental diseases, at the Perm State Academy of Medicine (PSMA), Perm, Russian Federation. She did her medical training at Ural State Academy of Medicine, Yekaterinburg, and continued her training leading ultimately to a PhD from Perm State Academy of Medicine. Her work in Biotherapy includes hirudotherapy, hirudopharmacotherapy, and phagotherapy. Her other research interests include Diseases of Oral Mucosa, periodontal diseases, and oral manifestations of systemic diseases.

**Paul MacIntyre (Canada)** was nominated for the Outstanding Achievement Award by his employees at the Vintage Inns citing his “unique gift of being able to envision what the future could hold for the spas including growth strategies and then creatively turning these visions into reality.” He has been with Vintage Hotels for over seven years and is currently the General Manager for the Pillar and Post. A native of the Niagara Region, Mr. MacIntyre has worked in the Niagara-on-the-Lake hospitality industry since 1988, beginning at the Niagara-on-the-Lake Golf Club where he rose to the ranks of Club House Manager in 1994. Paul graduated from Cornell University’s General Manager’s Program in January 2007.

**Juraj Majtán, PhD (Slovakia)** is a Researcher in the Section of Molecular and Applied Zoology, Institute of Zoology, at the Slovak Academy of Sciences in Bratislava, Slovak Republic. He received his PhD in Biochemistry from the Department of Molecular Apidology, Slovak Academy of Sciences, Institute of Molecular Biology. He received his post-doctoral training at The Infection, Inflammation and Repair (IIR) Division, School of Medicine, University of Southampton, Southampton, United Kingdom, and at the Centre for Ecology & Hydrology NERC, Mansfield Road, Oxford OX1 3SR, United Kingdom. The focus of Dr. Majtán’s work has been the Biochemistry (purification and characterization), microbiology, molecular biology (cloning and expression of recombinant proteins, RNA, DNA), and immunobiology (cytokines, cell cultures, cutaneous cells) of bioactive molecules. He has received several awards for his work, including the 2010 International Collaborative Award – Early Career Researcher (Cardiff University, UK)

**Steven G. McKenzie, MSPT, HPCS (USA)** is Therapy Services Director at the Little Bit Therapeutic Riding Center in Woodinville, WA, where he directs and supervises patient evaluations and treatments, incorporating hippotherapy as a treatment strategy. He earned his Bachelor’s degree in Exercise and Sport Science from Oregon State University and his MSPT from Columbia University. Previously, he was Hippotherapy Program Director at the National Center for Equine Facilitated Therapy in Woodside, CA. In addition to his responsibilities as a therapist and administrator, Mr. McKenzie has been an active teacher and representative within the hippotherapy field. He is active in the North American Riding for



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the Handicapped Association (former Chair of the Health and Education Committee), the American Hippotherapy Association (Washington State Representative), the American Physical Therapy Association, and the US National Classifier for Para-Equestrian Dressage.

**Sharon Mendez, RN, CWS (USA)** is a Nurse Specialist at Providence Holy Family Hospital in Spokane, WA. Her expertise includes wound care, extended care, and home care. She is on the Board of Directors of the BioTherapeutics, Education & Research (BTER) Foundation and a member of the American Association of Wound Managers and Association for the Advancement of Wound Care. Ms. Mendez has been instrumental in designing biotherapy programs and protocols; she heads the Maggot and Leech Therapy programs at Holy Family Hospital. She is the recipient of the Patricia Nixon Award for Nursing Excellence, and regularly teaches formal and informal courses on biotherapy. Sharon Mendez was a primary author of the BTER Foundation's Maggot Therapy and Leech Therapy Policies & Procedures.

**Abbas Mirabzadeh, BS, MSc (Iran)** has been a prominent entomologist at the Iranian Research Organization for Research and Technology (IROST) since graduating from Agricultural College of Tehran University. He has already contributed over 90 scientific papers and presentations, and has extensive experience and research in agricultural entomology, especially beetles, bees and pollination. Nearly 10 years ago, Dr. Mirabzadeh introduced maggot therapy technology in Iran. He has been a leading force ever since, producing medicinal maggots, assisting in treatments, conducting or supervising research, and teaching others.

**Hideya Mitsui, MD (Japan)** is a well-established vascular surgeon at Okayama University Hospital in Japan. He has always been at the forefront of innovative cardiovascular research and therapy. He has also trained at the University of California, San Francisco and the University of Sydney (Westmead Hospital). For the past decade he has been studying and using maggot therapy to treat his patients with severe wounds, usually with underlying vascular insufficiency. He and his team of researchers have significantly advanced our understanding of maggot biochemistry and clinical utility through their work and publications.

**Kosta Y. Mumcuoglu, BSc, PhD (Israel)** is a Research Fellow in the Department of Parasitology, Hadassah Medical School, Jerusalem. He also holds appointments as an Adjunct Professor of Parasitology at the Cumhuriyet University, Sivas, Turkey, and Associate Professor of Parasitology, Turkey. Professor Mumcuoglu, who speaks 6 languages, has studied and worked all over the globe, including Turkey, Greece, Switzerland, UK, USA, Iran, and Israel. He earned his BSc in the Department of Zoology, University of Basel, Switzerland, and his PhD in the Departments of Zoology and Dermatology, Medical School, University of Basel. He is a prolific author, editor and reviewer, yet still finds time to participate as a member or executive member of professional organizations like the Entomological Society of America, the Entomological Society of Israel, the Israel Society for Parasitology, Protozoology and Tropical Diseases, the Swiss Society for Dermatology and Venereology, and the International Society on Biotherapy. He has been a leader in the field of Biotherapy, with nearly 20 years' experience in maggot therapy alone. His teaching skills have won him widespread praise and awards.

**David Idris Pritchard, BSc, MSc, PhD (United Kingdom)** is Professor and Chair in Parasite Immunology, School of Pharmacy, University of Nottingham, UK. He also holds the position of Honorary Professor, University of Swansea, 2010. He received his BSc in Zoology at the University of Wales, and his MSc and PhD in Immunology at the University of Birmingham. His industry experience includes a research

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position at Astra-Zeneca; and he is a Founder of Sherwood Therapeutics: An immune modulation and wound care company, in collaboration with the University of Nottingham and the Defense Science and Technology Laboratories, Porton Down, and manages the science underpinning the maintenance and prosecution of 10 patents. Professor Pritchard describes his research aim this way: “to understand the immunological intricacies of host-pathogen interactions, using advanced epidemiological and molecular tools. This research has involved the establishment of tropical research bases, particularly in Papua New Guinea, working in conjunction with a sophisticated research environment in Nottingham, and is currently focussed on two pathogens of humans, *Necator americanus* and *Pseudomonas aeruginosa*. One prospective outcome of this research is the discovery of novel, effective and well tolerated immune suppressive therapeutics. More recently, we have isolated wound management agents from the medicinal maggot *Lucilia sericata*.” Professor Pritchard teaches and publishes extensively; he is a referee for the British Journal of Dermatology, Parasite Immunology, International Journal of Parasitology, Acta Tropica, Parasitology, Trends in Parasitology, Journal of Immunology, Genes and Immunity, Journal of Allergy and Clinical Immunology, and Nature Reviews Microbiology.

**Ronald Sherman, MD, MSc, DTM&H(USA)** Clinic Physician (Special Diseases / HIV), Orange County Health Care Agency, Santa Ana, CA.; Director & Board Chair, BioTherapeutics, Education & Research (BTER) Foundation; Co-Founder and Laboratory Director, Monarch Labs, LLC. Education: BS, Entomology, University of California, Riverside; MD UCLA School of Medicine; MSc, Clinical Tropical Medicine, London School of Hygiene and Tropical Medicine, University of London, UK. Dr. Sherman has spent over 20 years researching the history, biochemistry and clinical utility of maggot therapy, and has already brought two biotherapy products to market in the U.S., with FDA clearance.

**Randall Sullivan, RN (USA)** retired long ago from her position as head of Skin Integrity at the Veterans Affairs Medical Center in Long Beach, California. Since then, and for nearly two decades, she has been practicing or teaching maggot therapy in the United States. Ms. Sullivan is on the Board of Directors of the BioTherapeutics, Education & Research (BTER) Foundation, and has been elected Secretary and Chair of the Education Committee for the past 6 years.

**Lana Sviridova, MD (USA)** is a Professional Leech Therapist with 10 years of experience in the Regional Rehabilitation Center of Rostov-on-Don, Russia. After graduating from Medical School in Russia, she went on to earn her Russian Hirudotherapy certificate in 1994. She is a member of, and consultant to, the BioTherapeutics, Education & Research (BTER) Foundation, and was a primary author of the BTER Foundation’s Leech Therapy Policies & Procedures.

**Peter Takac, MS, PhD (Slovakia)** is Senior Researcher at the Institute of Zoology, Slovak Academy of Sciences, Bratislava, Slovakia. He received his BS from Comenius University, Faculty of Natural Sciences, Bratislava, Slovakia, and his PhD from the Institute of Experimental Phytopathology and Entomology, SAS, Ivanka pri Dunaji, Slovakia. Dr. Takac, who speaks 5 languages and holds several patents, has extensive experience working on tsetse flies and blow flies.

**Tarek I. Tantawi, B.Sc, M.Sc, PhD (Egypt)** is Associate Professor of the Medical Entomology Department of Zoology, Faculty of Science, Alexandria University, in Alexandria, Egypt. His research interests include biotherapy, maggot therapy, medical and veterinary entomology, forensic entomology, and general blow fly taxonomy, biology and ecology. Professor Tantawi has been an active member of the Entomological Society of America, the European Association For Forensic Entomology, the

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BioTherapeutics, Education & Research (BTER) Foundation, the International Biotherapy Society, the Egyptian German Society of Zoology, the German Egyptian Association of Traditional Natural Medicine and Acupuncture, and the Union of Arab Biologists. He has received multiple research grants and awards, including the John and Grace Nuveen Scholar Award for International Visiting Scholars, allowing him to study with Bernard Greenberg in Chicago, IL. Dr. Tantawi has been active in the Biotherapy community, practicing and researching maggot therapy for nearly 15 years.

**Aletha W. Tippett, MD, BSCh (USA)** is a Family Physician and Wound Care Specialist, with a focus on holistic care, pain management and wound care. She received her BS in Chemical Engineering from the University of Missouri in Columbia, Missouri, and her MD from the University of Cincinnati in Cincinnati, Ohio. Dr. Tippett is an active educator, and has traveled extensively to teach clinicians about wound care and biotherapy. She has won numerous awards and has been acknowledged in the 2004-2009 editions of Guide to America's Top Family Doctors. One of her most important contributions has been the integration of biotherapy into mainstream medicine in the United States. Dr. Tippett is a Fellow of the American Board of Family Practice, a Diplomat of the American Academy of Pain Management, and certified in wound care by the National Alliance of Wound Care (WCC), the American Academy of Wound Management (CWS). She is also board certified by the American Board of Hospice and Palliative Medicine. Dr. Tippett is a member of the American Academy of Family Physicians (FAAFP), the American Academy of Pain Management, the Cincinnati Academy of Medicine, the Ohio Academy of Family Physicians, the Southwest Ohio Society of Family Physicians (past President, currently Secretary-Treasurer), the Ohio State Medical Association, the International Society of Travel Medicine, and the American Academy of Hospice and Palliative Medicine.

**Syed Mohammed Naveed Ul Huda, MSc, TUMS (Malaysia)** is a Lecturer, Faculty of Traditional, Complementary & Alternative Medicine, Cyberjaya University College of Medical Sciences, in Malaysia. Dr. Ul Huda received his BS and BUMS in Hyderabad, India. He has been studying and teaching about hirudotherapy around the world for many years

**Debora Wade (USA)** a resident of Northern California, has Crohn's disease, and she's not afraid to tell you about it. She shares her story as the author of the blog: Waiting for the Cure - a day in the life of Crohn's disease. Her story begins like this: "I received 10 hookworm larvae on a band aid placed against my forearm, and this story has just begun. While the rest of the world awaits for the hygiene hypothesis to be rigorously debated, for the studies to examine the efficacy of returning parasites to a dysfunctional immune system, some of us need to risk everything to end our pain." It is a story still unfolding, but one from which we can all learn.

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Tentative Schedule, as of November 1, 2010

Asterisks (\*) indicate Session Co-Chairs and Conference Organizers

<b>Day</b>	<b>Session / Time</b>	<b>Presentation Title or Topic</b>	<b>Time</b>	<b>Speaker(s)</b>
<b>DAY 1</b> 11/11/10	<b>Opening Statements</b> 1:00 pm – 1:15 pm	Introduction	1:00 pm	Organizing Committee Co-Chairs: Ronald Sherman (USA)*, Aletha Tippett (USA)*, Kosta Y. Mumcuoglu (Israel)*
	<b>Keynote Address</b> 1:15 pm – 2:00 pm	William Baer and the History of Biotherapy	1:15 pm	Alana Jolley (USA)
	<b>Phage- and Bacteriotherapy</b> 2:00 pm – 3:45 pm	Bacteriophages	2:00 pm	Elizabeth Kutter (USA)*
		Clinical application of bacteriophages for recalcitrant bacterial infections	2:30 pm	Lasha Gogokhia (Georgia)
		Non-surgical Treatment of Periodontal Disease	3:00 pm	Tatiana Libik (Russian Federation)
		<b>Q &amp; A Session</b>	3:25 pm	
		<i>Break</i>	3:45 pm	
	<b>Helminthic Therapy</b> 4:00 pm – 6:00 pm	Helminthic Therapy - A Patient's Journey	4:00 pm	Debora Wade (USA)
		<b>Q &amp; A Session</b>	4:30 pm	
		Screening of Documentary Film: 'Parasites: A User's Guide	5:00 pm	Discussion by Ronald Sherman & Debora Wade (USA)
	<b>End of Day 1</b>	6:00 pm		
	Opening Reception; Opening of Exhibit	6:30 pm		

<b>Day</b>	<b>Session / Time</b>	<b>Presentation Title or Topic</b>	<b>Time</b>	<b>Speaker(s)</b>
<b>DAY 2</b> 11/12/10	<b>Maggot Therapy</b> 8:00 am – 10:00 am	Safe Use of <i>Lucilia cuprina</i>	8:00 am	Tarek Tantawi (Egypt)*
		MDT in Iran	8:30 am	Abbas Mirabzadeh (Iran)
		MDT in Slovakia	8:45 am	Milan Kozanek (Slovakia)
		MDT in Jerusalem	9:00 am	Kosta Y. Mumcuoglu (Israel)*
		Pain Related to MDT	9:15 am	Kosta Y. Mumcuoglu (Israel)*
		In Search of Pain-Free MDT	9:30 am	Ronald Sherman (USA)*
		<b>Q &amp; A Session</b>	9:40 am	
		<i>Break &amp; Exhibits</i>	10:00 am	
	<b>Maggot Therapy (cont)</b> 10:15 am – 12:00 pm	Pain Release Drugs in MDT	10:20 am	Lutz Heuer (Germany)
		Clinical and Microbiological Efficacy of Maggot Debridement Therapy in the Management of Pressure Ulcers	10:35 am	Yousry Gohar (Egypt)
		MDT for Severe Diabetic Foot Ulcers	10:50 am	Hideya Mitsui (Japan)
		Uncommon Applications of Maggot Therapy	11:05 am	Sharon Mendez (USA)
		<b>Q &amp; A Session</b>	11:35 am	
		<i>Lunch &amp; Exhibits</i>	12:00 pm	
	<b>Maggot Therapy (cont)</b> 1:30 pm – 3:40 pm	Antibacterial Activity of <i>Lucilia cuprina</i>	1:15 pm	Yousry Gohar (Egypt)
Antibacterial Activity of Larval Excreta		1:30 pm	Domen Jaklic (Slovenia)	
Antimicrobial Factors – <i>Lucilia sericata</i>		1:45 pm	Peter Takac (Slovakia)	
Healing Properties of Maggot Therapy		2:00 pm	Ronald Sherman (USA)*	
<b>Q &amp; A Session</b>		2:30 pm		
	<i>Break &amp; Exhibits</i>	3:40 pm		
<b>Hirudotherapy</b> 4:00 pm – 6:00 pm	Modern Hirudotherapy	4:00 pm	Olga S. Gileva (Russian Federation)*	
	Leech Therapy In Recent Times	4:45 pm	Lana Sviridova (USA)*	
	Periodontitis and Oral Mucosal Diseases	5:15 pm	Tatiana Libik (Russian Federation)	
	<b>Q &amp; A Session</b>	5:45 pm		
	<b>End of day 2</b>	6:00 pm		
	Business Meeting - BTER Foundation	6:30 pm		

<b>Day</b>	<b>Session / Time</b>	<b>Presentation Title or Topic</b>	<b>Time</b>	<b>Speaker(s)</b>
<b>DAY 3</b> 11/13/10	<b>Bee Venom Therapy</b> 8:00 am – 10:00 am	Brief Survey of Apitherapy	8:00 am	Theodore Cherbuliez (USA)*
		Review of Recent BVT Studies	8:15 am	Christopher M. Kim (Korea/USA)*
		Evidence-based Medical Apitherapy	8:50 am	Andrew Kochan (USA)
		Principles of Green Medicine	9:25 am	Theodore Cherbuliez (USA)*
		<i>Break &amp; Exhibits</i>	10:00 am	
	<b>Bee Venom Therapy (cont)</b> 10:20 am – 11:30 am	Apitherapy for Pain	10:20 am	Chris Kleronomos (USA)*
		<b>Q &amp; A Session</b>	11:10 am	
	<b>Ichthyotherapy</b> 11:30 am – 12:30 pm	Ichthyotherapy for Skin Disease	11:30 am	Martin Grassberger (Austria)*
		Proposed use of Ichthyotherapy in the Health and Wellness Industry	12:00 pm	Paul MacIntyre (Canada) and Rick Bradnam (Canada)
		<b>Q &amp; A Session</b>	12:15 pm	
		<i>Lunch &amp; Exhibits</i>	12:30 pm	
	<b>Veterinary Biotherapy</b> 1:30 pm – 2:20 pm	Veterinary Biotherapy	1:30 pm	R Sherman (USA)
		Assessment of MDT for Animals	1:50 pm	Felio Bello (Colombia)
		<b>Q &amp; A Session</b>	2:05 pm	
	<b>BioDiagnosis &amp; Canine Olfactory Detection</b> 2:20 pm – 3:30 pm	Canine Detection of Human Disease by Odor: Medical Assistant Dogs	2:20 pm	Claire Guest (UK)* John C. T. Church (UK)
<b>Q &amp; A Session</b>		3:10 pm		
	<i>Break &amp; Exhibits</i>	3:30 pm		
<b>Hippotherapy &amp; Service Animals</b> 3:50 pm – 6:00 pm	Service Animals, Equine Assisted Activities and Equine Assisted Therapies	3:50 pm	Steve McKenzie (USA)*	
	<b>Q &amp; A Session</b>	4:50 pm		
	<b>End of Day 3</b>	6:00 pm		
	Business Meeting – IBS	6:30 pm		

<b>Day</b>	<b>Session / Time</b>	<b>Presentation Title or Topic</b>	<b>Time</b>	<b>Speaker(s)</b>
<b>Day 4</b> 11/14/10	<b>Research &amp; Educational Needs in Biotherapy</b> 8:00 am – 9:00 am	Free forum, with audience participation: Defining research needs, Educational needs, and Regulatory pathways	8:00 am	Kosta Mumcuoglu (Israel) Ronald Sherman (USA) Aletha Tippett (USA)
	<b>Breakout Sessions &amp; Workshops</b> 9:00 am – 12:00 pm (running concurrently)	a) Maggot Therapy Workshop	9:00 am	Sharon Mendez (USA), Randall Sullivan (USA) and Ronald Sherman (USA)
		b) Hirudotherapy Workshop	9:00 am	Olga S. Gileva (Russian Federation)* Lana Sviridova (USA)*
		c) Practical Helmintherapy	9:00 am	Debora Wade (USA)
		d) BVT and Apitherapy	9:00 am	Theodore Cherbuliez (USA) Christopher Kim (Korea/USA) Andrew Kochan (USA) Frederique Keller (Canada)
	<b>Return Evaluations &amp; CME Requests</b> 12:00 pm – 1:00 pm		12:00 pm	
	<b>End of Conference</b>		1:00 pm	

**Posters will be available for viewing at the following times:**

11/11/10 6:30 pm - 9:00 pm  
11/12/10 7:30 am - 6:00 pm  
11/13/10 7:30 am - 6:00 pm











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