March 26 - 27, 2007

Division of Allergy, Immunology and Transplantation (DAIT), National Institute of Allergy and Infections Diseases (NIAID) National Institutes of Health (NIH)

Embassy Suites Hotel at the Chevy Chase Pavilion 4300 Military Road, NW Washington D.C.

Day 1: Monday, March 26, 2007

8:00 a.m. Arrival/Sign In/Refreshments 8:30 a.m. Welcome and Goals of the Meeting Dr. Narayani Ramakrishnan, DAIT, NIAID, NIH, Bethesda, MD 8:35 a.m. **Opening Remarks** Dr. Richard Hatchett, DAIT, NIAID, NIH, Bethesda, MD 8:40 a.m. Medical Requirements for 10KT Detonation Model Dr. Carl Curling, Institute for Defense Analyses, Alexandria, Virginia 9:10 a.m. Discussion 9:20 a.m. Overview of the Combined Injury: Radiation in Combination with Trauma, Infectious Disease, or Chemical Exposure Dr. Terry Pellmar, Armed Forces Radiobiology Research Institute, Uniformed Services University of the Health Sciences, Bethesda, MD 9:50 a.m. Discussion

10:00 a.m. **BREAK**

10:15 a.m. Combined Radiation Injuries after the Chernobyl Accident:: Management, Outcome & Lessons

Learned

Dr. Alla Shapiro, Office of Counter-Terrorism and Emergency Coordination, Center for Drug

Evaluation and Research, Food and Drug Administration

10:45 a.m Discussion







10:55 a.m	Study on the Protection and Mechanism of Cervical Sympathetic Block (SB) on Combined Radiation and Burn Injury in Rats Dr. Yongping Su, Institute of Combined Radiation Injury, Chongqing, China
11:25 a.m	Discussion
11:35 a.m	Advancements on Understanding the Key Questions of Radiation Combined Injuries Dr. Zhongmin Zou, Institute of Combined Radiation Injury, Chongqing, China
12:05 p.m.	Discussion
12:15 p.m	LUNCH
1:15 p.m.	Factors Affecting the Outcomes of Sepsis Dr. Peter Ward, University of Michigan Health Systems, Ann Arbor, Michigan
1:45 p.m.	Discussion
1:55 p.m.	The Impact of Burn Injury on Inflammatory and Immunologic Functions: Clinical and Experimental Perspectives Dr. Martin Schwacha, University Alabama at Birmingham, Alabama
2:25 p.m.	Discussion
2:35 p.m.	Current Concepts in the Triage with Early Management of Combined Injuries (Trauma/Burns and Accidental Exposure to Ionizing Radiation Dr. Erwin F. Hirsch, Boston University Medical Center, Boston, MA
3:05 p.m.	Discussion
3:15 p.m.	BREAK
3:30 p.m.	Effects of Radiation and Traumatic Brain Injury on Hippocampal Neurogenesis Dr. John Fike, Comprehensive Cancer Center, University of California, San Francisco, CA
4:00 p.m.	Discussion
4:10 p.m.	Radiation Effects: Research at FOI - Proteomic Studies of Radiation Response Dr. Daniela Stricklin, Swedish Defense Research Agency, Sweden







Discussion 4:40 p.m.

ADJOURN 4:50 p.m.

Day 2: Tuesday, March 27, 2007

8:00 a.m. Arrival/Refreshments

Combined Injury in Radiation Threat Environments and Countermeasure Evaluations 8:30 a.m.

Dr. David Ledney, Armed Forces Radiobiology Research Institute, Uniformed Services

University of the Health Sciences, Bethesda, MD

9:00 a.m. Discussion

9:10 a.m Countermeasures for Radiation-Induced Skin Injury

Dr. Paul Okunieff, University of Rochester Medical Center, Rochester, NY

9:40 a.m. Discussion

9:50 a.m. Targeting Endothelial Dysfunction as Countermeasure against Combined Injury

Dr. Martin Hauer-Jensen, University of Arkansas for Medical Sciences, Arkansas Cancer

Research Center, Little Rock, AR

10:20 a.m. Discussion

10:30 a.m. **BREAK**

10:45 a.m. Potential New Pharmaceutical Agents for Accelerating Wound Healing and for the Prevention

and Reduction of Scarring

Professor Mark Ferguson, University of Manchester, UK

11:15 a.m. Discussion

11:25 a.m. Thrombin Peptide TP508, More Than Just a Tissue Repair Factor: Can its Effects on

Endothelial Dysfunction Offer Protection from Blast and Radiation Injury?

Dr. Darrel Carney, University of Texas Medical Branch, Galveston, TX

11:55 a.m. Discussion







12:05 p.m. **LUNCH**

1:05 p.m. Cutaneus Radiation Syndrome and Radiation-Induced Multi-Organ-Involvement

Dr. Harald Dörr, Bundeswehr Institute of Radiobiology, Munich, Germany

1:45 p.m. Discussion

1:55 p.m. **BREAK**

2:15 p.m. GENERAL DISCUSSION (Moderators: Dr. Ramakrishnan & Dr. Hatchett)

Topics for consensus:

Animal models for countermeasure development to treat combined injury: current models and

future research

What are the endpoints to be studied?

Characterize the salient features of, and identify research priorities that need to be addressed for, the following types of "combined injury":

Radiation + Sepsis

Radiation + Burn

Radiation+ Wound

Radiation + Burn + Wound

What countermeasures are available? What are the future directions?

Triage and treatment decisions following combined injury (radiation dose vs. injury)

4:30 p.m. **WORKSHOP ADJOURNED**





