

Final Program
Pathophysiology and Molecular Biology of Hematopoiesis, Malignancy and
Radiation Response: A Symposium in Memory of Eugene P. Cronkite

Day 1 - May 10, 2006

Welcome & Dedication

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| 9:00 am – 9:10 am | Praveen Chaudhari, PhD
Director, Brookhaven National Laboratory |
| 9:10 am – 9:25 am | Rai KR – Overview of Gene Cronkite's contributions to
Hematopoiesis, Radiation Response and Clinical Medicine. |
| 9:25 am – 9:30 am | Feinendegen LE – Administrative briefing |

Leukemogenesis

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| 9:30 am – 9:50 am | Chairman: Rai KR |
| 9:35 am – 9:55 am | Jordan CT, University of Rochester Medical School,
Rochester, NY - Characterization and targeting of
leukemia stem cells. |
| 9:50 am – 10:10 am | Croce C, Ohio State University, Columbus, OH –
Correlation of a microRNA signature with prognosis of
CLL. |
| 10:10 am – 10:30 am | Rithidech KN, SUNY, Stony Brook, NY - Radiation
Leukemogenesis: A Proteomic Approach. |
| 10:35 am – 10:45 am | Coffee Break |
| 10:45 am – 11:30 am | Discussion |

Management of Hematologic Disorders – Part I

Chairman: Shadduck RK

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| 11:30 am – 11:50 am | Shadduck RK, Western Pennsylvania Cancer Institute, Pittsburgh, PA - Diagnosis and treatment of myelodysplastic syndrome. |
| 11:50 am – 1:05 pm | Lunch |
| 1:05 pm – 1:25 pm | Rai KR, Long Island Jewish Medical Center, New Hyde Park, NY – Pathophysiologic mechanisms of leukemia and their application to therapy. |
| 1:25 pm – 1:45 pm | Deininger M, Oregon Health and Science University, Portland, OR – Optimal therapy for chronic myelogenous leukemia. |
| 1:45 pm – 2:05 pm | Champlin RE, MD Anderson Cancer Center, Houston, TX - Role of transplantation in treatment of chronic leukemia. |
| 2:05 pm – 2:20 pm | Coffee Break |
| 2:20 pm – 3:05 pm | Discussion |

Management of Hematologic Disorders – Part II

Chairman: Anderson K

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| 3:05 pm – 3:25 pm | Anderson K, Dana-Farber Cancer Institute, Boston, MA – Targeted therapy of multiple myeloma based on tumor-microenvironmental interactions. |
| 3:25 pm – 3:45 pm | Stone R, Dana-Farber Cancer Institute, Boston, MA – Novel approaches to treat adult acute myelogenous leukemia. |
| 3:45 pm – 4:05 pm | Shreeve WW, Brookhaven National Laboratory, Upton, NY; SUNY, Stony Brook, NY – Use of isotopes in the diagnosis of erythrocyte disorders. |
| 4:05 pm – 4:25 pm | Goodnough LT, Stanford University School of Medicine, Stanford, CA – Iron-restricted erythropoiesis in patients receiving erythropoietic therapy. |
| 4:25 pm – 4:40 pm | Coffee Break |
| 4:40 pm – 5:25 pm | Discussion |

Regulation of Hematopoiesis

Chairman: Inoue T*

- 9:00 am – 9:20 am Broxmeyer HE, Indiana University School of Medicine, Indianapolis, IN - Regulation of hematopoiesis: from cytokines to chemokines.
- 9:20 am – 9:40 am Lapidot T, The Weizmann Institute of Science, Rehovot, Israel - Role of SDF1 in stem cell trafficking of primitive blood precursor cells.
- 9:40 am – 10:00 am Moore, KA, Princeton University, Princeton, NJ - Molecular Mechanisms in the Hematopoietic Microenvironment.
- 10:00 am – 10:20 am Walkley CR, Dana-Farber Cancer Institute, Boston, MA - Control of self-renewal and differentiation of hematopoietic stem cells by negative cell-cycle regulators.
- 10:20 am – 10:40 am Moore, MA, Memorial Sloan-Kettering Cancer Center, New York, NY - Flt-3, stem cell renewal and leukemia.
- 10:40 am – 10:55 am Coffee Break
- 10:55 am – 11:40 am Discussion
- 11:40 am – 12:55 pm Lunch

Low-Dose Radiation Effects

Chairman: Feinendegen LE

- 12:55 pm – 1:15 pm Feinendegen LE, Brookhaven National Laboratory, Upton, NY; Heinrich-Heine University, Dusseldorf, Germany – System responses to low-level exposure.
- 1:15 pm – 1:35 pm Ponnaiya B, Center for Radiological Research, RARAF, Irvington, NY – Imaging individual bystander cell effects using a charged-particle microbeam to precisely deliver radiation.

- 1:35 pm – 1:55 pm Mothersill C, McMaster University, Hamilton, Ontario, Canada – Radiation-induced bystander signalling mechanisms – implications for haematological malignancies.
- 1:55 pm – 2:15 pm Albanese, J, Yale New Haven Health System, New Haven, CT – Gene expression profiling after low-dose exposure to radiation in man.
- 2:15 pm – 2:30 pm Coffee Break
- 2:30 pm – 3:15 pm Discussion

Accidental Exposure to Ionizing Radiation

Chairman: Fliedner TM

- 3:15 pm – 3:35 pm Fliedner TM, University of Ulm, Ulm, Germany - Pathophysiologic principles of radiation exposure and accident triage.
- 3:35 pm – 3:55 pm Dainiak N, Bridgeport Hospital, Yale University School of Medicine, Bridgeport, CT – Management of mass casualties from a radiological event.
- 3:55 pm – 4:15 pm Herodin F, Centre de Recherches du Service de Santé des Armées, La Tronche, France - New approaches to cytokine-based protocols of accidentally irradiated victims.
- 4:15 pm – 4:35 pm Chao N, Duke University Medical Center, Durham, NC - Contingency planning in the US to be prepared for radiation accident medical management.
- 4:35 pm – 4:50 pm Coffee Break
- 4:50 pm – 5:35 pm Discussion

Banquet Program

- Dinner Speakers: Feinendegen LE, Master of Ceremonies
- Carsten A, Brookhaven National Laboratory, Upton, LI, USA, Gene Cronkite: The Man and His Science
- Cronkite Vignettes

Day 3

- May 12, 2006

Stem Cell and Cytokine Response to Radiation

Chairman: Dainiak N

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| 9:00 am – 9:20 am | Hirabayashi, Y, National Institute of Health Sciences, Tokyo, Japan – Implication of hemopoietic progenitor-cell kinetics and attenuation of radiation and chemical leukemogenesis. |
| 9:20 am – 9:40 am | Hoffman R, University of Illinois College of Medicine, Chicago, IL - Characterization of primitive hematopoietic progenitor cells which persist following total body irradiation. |
| 9:40 am – 10:00 am | Meineke V, Institute of Radiobiology, German Defense Ministry, Munich, Germany – Radiation–induced alterations in cytokine production in cultured skin cells. |
| 10:00 am – 10:20 am | Zanjani, E, University of Nevada, Reno, NV - A large, non-injury animal model for study of human stem cells. |
| 10:20 am – 10:35 am | Coffee Break |
| 10:35 am – 11:20 am | Discussion |

Meeting Summary and Future Directions

Moderator: Shreeve, WW

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| 11:20 am – 11:30 am | Rai KR, Leukemogenesis |
| 11:30 am – 11:40 am | Shaddock RK, Management of Hematologic Disorders (Part I) |
| 11:40 am – 11:50 am | Anderson K, Management of Hematologic Disorders (Part II) |
| 11:50 am – 12:00 pm | Inoue T*, Regulation of Hematopoiesis |
| 12:00 pm – 12:10 pm | Feinendegen LE, Low-Dose Radiation Effects |

12:10 pm – 12:20 pm Fliedner TM, Accidental Exposure to Ionizing Radiation
12:20 pm – 12:30 pm Dainiak N, Stem Cell and Cytokine Response to Radiation
12:30 pm ADJOURNMENT

*Affiliation: Biological Safety Research Center, National Institute of Health, Segatayaku,
Tokyo, Japan

SOCIAL PROGRAM: We are planning for a social program for interested persons.