

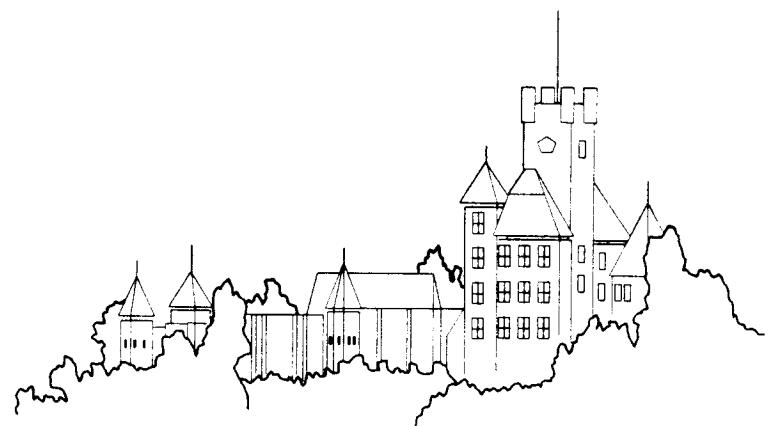


**Advanced Research Workshop on
“Radiation-Induced Multi-Organ Involvement and
Failure: A Challenge for Pathogenetic, Diagnostic
and Therapeutic Approaches and Research”**

to be held at the
**Science Conference Center Schloss Reisensburg of the
University of Ulm, near Ulm (Germany)**

from November 12-15, 2003

Final Program



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Acknowledgements

This Advanced Research Workshop was made possible by a generous grant of the German Armed Forces Medical Service. This grant enabled Prof. Dr. T. M. Fliedner (Director of the Radiation Medicine Research Group and WHO Collaborating Center for Radiation Accident Management of the University of Ulm to plan and organize this workshop in close cooperation with Colonel Dr. Meineke (Dep. Director of the Bundeswehr Institute of Radiobiology). The workshop is performed under the special auspices of Major General Dr. Peter K. Fraps (Director of the Military Medical and Health Agency of the Bundeswehr).

Further sponsorship was obtained by the Pharmacia Foundation for Medical Prevention and Epidemiology (Chairman of the Board: Peter Spiertz), the Faculty of Medicine of the University of Ulm (Dean: Prof. Dr. Reinhard Marre), the European Late Effects Project Group (EULEP) (Chairman of the Council: Prof. Dr. John W. Hopewell) and by the Institute of Radiation Protection of the Institutions for Statutory Accident Insurance and Prevention in the Precision Engineering and Electrical Industry and in the Chemical Industry Cologne (Director: Dr. Günter Seitz).

The Proceedings of this Workshop will be published as a special volume of the British Journal of Radiology (British Institute of Radiology, London).

Scientific Program Committee:

Theodor M. Fliedner and Viktor Meineke (Chairmen)
Nicholas Dairiak, Patrick Gourmelon and Makoto Akashi (Co-Chairmen)

Executive Secretary:

Colette Steinwachs

Scientific Associates:

Harald Doerr
Carola Paulsen

Wednesday, November 12, 2003

Morning: Arrival of participants at the Science Conference Center Schloss Reisensburg in Günzburg, near Ulm (Germany)

12:00-13:30 Lunch

14:00-14:30 **Opening Ceremony, Welcome Addresses of representatives of the University of Ulm and the sponsoring institutions**

Call to Order

by Prof. Dr. Theodor M. Fliedner

Opening Remarks

by Major General Dr. Peter K. Fraps

Greetings

- by Prof. Dr. John W. Hopewell
Chairman of the Council of the European Late Effects Project Group (EULEP)
- by Franz Fehringen
Scientific secretary of the Institute of Radiation Protection of the Institutions for Statutory Accident Insurance and Prevention in the Precision Engineering and Electrical Industry and in the Chemical Industry
- by Peter Spiertz
Chairman of the Board of the Pharmacia Foundation for Medical Prevention and Epidemiology

Formal Initiation of the Workshop

by Prof. Dr. Reinhard Marre

Dean of the Faculty of Medicine of the University of Ulm

14:30-15:00 Coffee Break

15:00-16:50 **Session I: (Chair: L.E. Feinendegen and J.W. Hopewell)**

Keynote Lectures

15:00-15:20 T.M. Fliedner Scope and Purpose of Workshop

15:20-15:50 E. Faist Posttraumatic multiple organ failure, a result of dysfunctional immuno-inflammatory response pathways

15:50-16:20	K. Maekawa	Multi-Organ Failure After Whole-Body Irradiation: the Japanese Experience
16:20-16:50	E. Travis	Mechanisms Determining the Development of Deterministic Early and Late Effects After Whole-Body Irradiation
17:00-18:00	Panel Discussion: (Chair: M. Akashi and K.G. Hering) Identification of Problem Areas	

19:00	Dinner	
20:30	After Dinner Lecture: L.E. Feinendegen:	Thoughts About Research Required in Radiation Medicine

Thursday, November 13, 2003

08:30-12:10	Session II: (Chair: J. Fürész and W. Doerr) Case Reports of Accident Victims with Multi-Organ Involvement or Failure	
08:30-08:50	S. Asano	Multi-Organ Involvement: The Tokaimura Experience of Patient B
08:50-09:10	H. Uozaki and K. Nakagawa	The Pathology of Multi-Organ Involvement: Two Autopsy Cases of the Tokaimura Experience
09:10-09:30	M. Konchalovsky	Multi-Organ Involvement and Failure in Selected Russian Radiation Accident Cases
09:30-09:50	S. Slavin	Multi-Organ Involvement or Failure: the Sor-Van Accident Experience

09:50-10:30 Coffee Break

10:30-10:50	T. Azizova	Multi-Organ Involvement and Failure in Selected Accident Cases Observed in the Mayak Nuclear Establishment
10:50-11:10	J.B. Reitan	Multi-Organ Involvement: the Norwegian Experience of 1982
11:10-11:30	R. Goans	Multi-Organ Involvement or Failure: the Experiences in the USA
11:30-11:50	T. Hirama	Multi-Organ Involvement: The Tokaimura Experience of Patient C
11:50-12:10	Changlin Yu and Genyao Ye	Multi-Organ Involvement in Selected Accident Victims: the Chinese Experience

12:30-14:00 Lunch

14:00-15:00 **Panel Discussion: (Chair: P. Gourmelon and A. Ganser)**
Common Features and Prognostic Indicators of Radiation Accident Victims with Multi-Organ Involvement

15:00-15:30 Coffee Break

15:30-17:10 **Session III: (Chair: J. Ring and S. Slavin)**
Pathogenetic Mechanisms in Different Systems Contributing to Multi-Organ Involvement or Failure

15:30-15:50 P. Gourmelon and D. Clarencon The Role and Mechanisms of Central Nervous Coordination and Vascular Effects in Multi-Organ Involvement or Failure

15:50-16:10 M. Akashi The Role of Infection and Bleeding in Multi-Organ Involvement and Failure

16:10-16:30 R. Hill The Contribution of Radiation Effects on the Respiratory System

16:30-16:50 J. Moulder The Contribution of Radiation Effects on the Renal System

16:50-17:10 N.M. Griffiths The Contribution of the Radiation Injury to the Gastrointestinal System

19:00 Dinner

Friday, November 14, 2003

08:30-09:30 **Session III (cont.): (Chair: J. Ring and S. Slavin)**
Pathogenetic Mechanisms in Different Systems Contributing to Multi-Organ Involvement or Failure

08:30-08:50 V. Meineke The Role of the Radiation-Induced Perturbation of the Cutaneous System

08:50-09:10 T.E. Fritz, B.A. Carnes and D. Grahn Multi-Organ Involvement and Failure: the Experience of Studies in Long-Term Radiation-Exposed Dogs and Mice

09:10-09:30 M.-H. Gaugler A Unifying System: Does the Vascular Endothelium Have a Role to Play in Multi-Organ Failure?

09:30-10:00 Coffee Break

10:00-11:00 **Panel Discussion: (Chair: N. Dainiak and T. Hirama)**
Is There a Chance to Identify a Unifying Pathogenetic Concept Characterizing the Development of Multi-Organ Involvement and Eventual Failure?

11:00—12:30 Viewing of posters presented by contributing institutions

12:30-14:00 Lunch

14:00-15:20 **Session IV: (Chair: M. Martin and D. van Beuningen)**
Clinical Research Priorities: From Bench to Bedside

14:00-14:20 D.A. Boothman Radiation-Induced Alterations in the Molecular Machinery of the Cell

14:20-14:40 N. Dainiak The Search for mRNA Biomarkers of Exposure to Radiation

14:40-15:00 M.H. Barcellos-Hoff Repair Mechanisms in Cells of Different Cell Systems

15:00-15:20 C. Mothersill The Role of Bystander Effects in the Development of Multi-Organ Failure

15:20-15:40 Coffee Break

15:40-17:00 **Session IV (cont.): (Chair: T.E. Fritz and H.P. Rodemann)**
Clinical Research Priorities: from Bench to Bedside

15:40-16:00 J.E. Trosko Role of Stem Cells and Cell-Cell Communication in Radiation Carcinogenesis: Ignored Concepts

16:00-16:20 A. Brooks Multiparametric Biological Exposure and Effect Assessment

16:20-16:40 P. Voisin (represented by L. Roy) Assessment of Biological Radiation Effects

16:40-17:00 N. Cordes Modulation of the Cellular Radio-Response by Cell-Matrix Interactions

17:00-18:00 **Panel Discussion:** (Chair: D.A. Boothman and J. Reichrath)

*Suggestions for a Basic Research Agenda to Support
Improvements in the Understanding of Radiation-
Induced Multiorgan Failure*

19:00 Chamber Concert: The HELIOS STRING TRIO, Stuttgart, with works of Franz Joseph Haydn, Wolfgang Amadeus Mozart, Franz Schubert and Ludwig van Beethoven

20:00 Dinner

Saturday, November 15, 2003

08:45-10:30 **Session V:** (Chair: C. Reiners and I. Turai)

*Diagnostic and Therapeutic Approaches in Multi-Organ
Radiation-Induced Involvement or Failure*

08:45-09:05 J. Waselenko Medical Approach to Therapy of the Radiation Victim with Combined Injuries and Multi-System Failure

09:05-09:30 N. Dainiak Evolving Role of Hemopoietic Stem Cell Transplantation in Radiation Injury: Potentials and Limitations

09:30-09:50 D. Thierry Cell Therapy for the Treatment of Accidental Radiation Overexposure

09:50-10:10 R.U. Peter Clinical Management of Radiation-Induced Skin Lesions Considering Multi-Organ Involvement: Diagnostic Approaches and Therapeutic Options

10:10-10:30 K. Maekawa General Management of Patients with Radiation-Induced Multi-Organ Failure: Electrolyte Balance, Parental Nutrition, Bacterial and Viral Infections

10:30-11:00 Coffee Break

11:00-12:30 **Session VI:** (Chair: T.M. Fliedner and V. Meineke)

Complex Radiation Syndromes: Mechanisms, Clinical Approaches and Future Challenges

A structured round table discussion based on the recommendations of the 4 Panel Discussions:

Development of a consensus on definition, underlying mechanisms and clinical approaches of radiation-induced multi-organ failure as a basis for clinical management strategies and research opportunities

13:00-14:30 Lunch

Options:

- Departure of participants or:
- 15:15 Organized bus transfer to the City of Ulm
- 16:00 Guided Tour including visit of the Cathedral and the Old Part of Ulm
- 17:30 Dinner in the historical restaurant "Zunfthaus"
- 20:30 Organized bus transfer to Schloss Reisensburg

- Excursion to the City of Ulm (Visit of the Cathedral and the Old Part of Ulm (guided professional tour) with dinner in a historical restaurant)

Sunday, November 16, 2003

Departure of participants

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