VIIIth INTERNATIONAL CONGRESS OF HEMATOLOGY

September 4-10, 1960
Sankei Kaikan
Tokyo, Japan

NOTE: This is not the final program of the Congress. The final program, to be distributed at the Congress, will include a listing of accepted papers, exhibitions and motion pictures.

The INTERNATIONAL CONGRESS OF HEMATOLOGY will meet in Tokyo from September 4 through September 10, and response from different parts of the world to the First and the Second Circulars has been far more encouraging than was anticipated. The Organizing Committee looks forward to meeting fellow hematologists and scientists from other countries at the Congress.

Organization of the Congress

The Congress will start with the Opening Session on Monday, September 5, 1960. The main part of the Congress will consist of six plenary sessions, ten symposia and a number of simultaneous sessions.

Each of the plenary sessions and each of the symposia will begin with an introductory speech on the subject of that session or symposium, and presentation of several invited papers and discussions will follow.

Simultaneous sessions will be devoted to presentation of short communications and their discussion.

Subjects of the plenary sessions and the symposia are as follows:

Plenary Sessions
I. Nucleonics
II. Leukemia
III. Hemocytology
IV. Coagulation and Hemorrhagic Disorders
V. Anemia
VI. Immunohematology

Symposia
1. Hemocytokinetics (Erythro-, Leuko- and Thrombo-Kinetics)
2. Etiology of Leukemia
3. Metabolism of Blood Pigment
4. Reticuloendothelial System, its Morphological Entity and Function
5. Chemotherapy of Leukemia
6. Hereditary Blood Diseases
7. Antibody Synthesis
8. Fibrinolysis
9. Bone Marrow and other Transplantsations
10. Hemopoietic Factors

Registration

Participants should register at the registration office in Sankei Kaikan, on Sunday, September 4, 9:00–17:00.
Monday, September 5

**Plenary Session I: Nucleonics (8:30-11:30)**

**CHAIRMEN**

**SESSION SECRETARY:** K. Nakao

**INTRODUCTORY SPEECH**
L. O. Jacobson (Chicago, U. S. A.): Recent studies on recovery from radiation injury after transplantation of heterologous tissue

**INVITED PAPERS**
- G. J. Jacobs (Washington, U. S. A.): Human radiation injuries—the correlation of leukocyte depression with mortality
- G. Mathé (Paris, France): Les problèmes hématologiques pour le traitement des sujets irradiés accidentellement
- K. Miyoshi (Tokushima, Japan): Experiments of radiation injuries by radio-colloid, in connection with hematopoietic disturbance of Bikini patients
- G. Wakisaka (Kyoto, Japan): Hematological investigation of the Atomic Bomb injuries
- N. Wald* (Pittsburgh, U. S. A.): The prognostic implications of early hematological changes in whole body radiation exposure
- S. Watanabe* (Hiroshima, Japan)

**Symposium on Etiology of Leukemia (14:00-17:30)**

**CHAIRMEN**
S. Amano, J. W. Beard, J. Furth, F. Magrassi and Y. Kawakita

**SESSION SECRETARY:** K. Hattori

**INTRODUCTORY SPEECH**
J. Furth* (Buffalo, U. S. A.): Viral leukemia in mice

**INVITED PAPERS**
- S. Amano (Kyoto, Japan): Ultracytological host-virus relationships in leukemia and tumors of viral origin
- J. W. Beard (Durham, U. S. A.): Virus synthesis in avian leukemia
- C. Friend (New York, U. S. A.): Experimental studies on a virus-induced leukemia of mice
- F. W. Gunz (Christchurch, New Zealand): Etiologic factors in sporadic human leukemia
- F. Magrassi (Napoli, Italy): Viral etiology of leukemia: Cases of chemotherapy
- D. Metcalf (Melbourne, Australia): Adrenal cortical function in pre-leukemic AKR mice
- Y. Nishizuka (Kyoto, Japan): Some experiments on leukemia induction in mice by synthetic estrogen
- S. O. Schwartz* (Chicago, U. S. A.): Etiologic studies in human leukemia
- T. Setsuda (Kyoto, Japan): Myelogenous leukemia and anemia in the offspring of albino rats given 4-amino-pteroyglutamic acid
- Bo Thorell (Stockholm, Sweden): Cytology and Cytochemistry of virus-induced leukemia

**Symposium on Hemocytokinetics (14.00-15.30)**

**CHAIRMEN**

**SESSION SECRETARY:** S. Takikawa

**INTRODUCTORY SPEECH**
J. F. Ross (Los Angeles, U. S. A.)

**INVITED PAPERS**
- G. Astaldi (Tortona, Italy): Effects of antimitotic agents on the kinetics of mitosis
- G. Aleksandrowicz* (Krakow, Poland): Sr$^{90}$ in bones of healthy person and in leukemias
C. G. Craddock (Los Angeles, U.S.A.): Differences in proliferative rate and distribution of normal and leukemic cells and mechanisms of control

M. Komiya (Tokyo, Japan): A study on erythrokinesis: Estimation of total number of erythroblasts in hematologic disorders


J. H. Lewis (Pittsburgh, U.S.A.): Thrombocytokinetics in thrombocytopenia

B. Osogoe (Ube, Japan): A quantitative study on the relationship of lymphocytopenia to granulo- and erythrocytopenia in young mature albino rats

W. C. Reinhardt (San Francisco, U.S.A.): On the biological significance of the thoracic duct lymphocyte output in various mammals

G. Wakisaka (Kyoto, Japan): Studies on the effect of radiation and anti-leukemic agents on hematopoiesis with special reference to DNA synthesis of bone marrow cells

H. Weicker (Bonn, Germany): Quantitative morphologic system in erythropoiesis

J. M. Yoffey* (Bristol, England): Quantitative studies of hemocytopenia in relation to the problem of the stem cell

Tuesday, September 6

Plenary Session II: Leukemia (8:30-12:30)

Chairmen
J. Bernard, S. Hibino, A. Hittmair, S. Mettler, H. Schulten and S. Watanabe

Session Secretary: G. Wakisaka

Introductory Speech
J. Bernard (Paris, France): La transformation aigue des leukemias chroniques

Invited Papers
G. A. Alexeieff (Moscow, U.S.S.R.): About the therapeutic tactic in acute leukemia
J. Bousser* (Paris, France): Metaplasies myeloïdes de la rat
J. Furth* (Buffalo, U.S.A.): A virus causing anemia, osteosclerosis and leukemia in a rat
M. Hashimoto (Fukuoka, Japan): Pathology of bone marrow in leukemia
S. Hibino (Nagoya, Japan): Chemotherapy of leukemia with special reference to mytonygerin C and some other agents recently originated in Japan
J. M. Hill (Dallas, U.S.A.): Aggressive therapy of leukemia
K. Hiraki (Okayama, Japan): Studies on leukemia by new bone marrow-tissue culture technics with special reference to remission after chemotherapy
H. Schulten* (Köl, Germany): Chemotherapy of CML with myleran
J. F. Wilkinson* (Manchester, England)

Symposium on Chemotherapy of Leukemia (14:00-17:30, Room B)

Chairmen
J. Bernard, J. H. Burchenal, M. Hashimoto and K. Hiraki

Session Secretary: A. Nakajima

Introductory Speech

Invited Papers
J. Bichel (Aarhus, Denmark): Treatment of leukemia with radioprotective substance in combination with chemotherapy
M. M. El-Mehairy (Cairo, Egypt, U. A. R): Clinical and hematologic study of relapses of cases of chronic myeloid leukemia receiving myleran
C. T. Das Gupta (Calcutta, India): Urethane in chronic myeloid leukemia
Y. Kawakita (Kumamoto, Japan): Clinical studies on the chemotherapy of leukemia
K. Kimura (Nagoya, Japan): Clinical and hematologic patterns influencing the chemotherapy of acute leukemia
A. Linke* (Heidelberg, Germany): Treatment of hemoblastosis with triethylenimino-benzolzoline
C. Mathé* (Paris, France): Etudes de traitement des leucémies par l’irradiation suivie de transfusion de cellules hematopoietiques
K. Takeda* (Sapporo, Japan)

Symposium on Metabolism of Blood Pigment (14:00–17:30, Room C)
CHAIRMEN
H. A. Itano, K. Kaziro, H. Lehmann and S. Shibata
SESSION SECRETARY: M. Shimizu
INTRODUCTORY SPEECH
H. A. Itano* (Bethesda, U. S. A.): Genetic control of the polypeptide chains of hemoglobin

INVITED PAPERS
K. Betke* (Freiburg, Germany): Fetal hemoglobin in health and disease
J. B. Chatterjea (Calcutta, India): Observations on splenectomy in the thalassemia syndrome
P. Gedigk (Bonn, Germany): The biological significance of direct and indirect serum bilirubin
K. Kosaka (Okayama, Japan): The nature of indirect and direct bilirubin
G. Kikuchi* (Sendai, Japan)

INTERNATIONAL CONGRESS OF HEMATOLOGY
V. Minnich (St. Louis, U. S. A.): Changes in the hemoglobin pattern during infancy
S. Shibata (Ube, Japan): Hemoglobin M1: Demonstration of a new abnormal hemoglobin in hereditary nigreemia
R. Wurmser* (Paris, France):
K. Yamaoka (Fukuoka, Japan): Studies on hemoglobinopathies observed in Japan
P. Sturgeon (Los Angeles, U. S. A.): Observation on “Vart” and the “Fast” hemoglobins of thalassemia H diseases

Wednesday, September 7

Plenary Session III: Hemocytology (8:30–12:30, Room A)
CHAIRMEN
S. Amano, M. Bessis, J. Bousser, L. W. Diggins, I. Gonzalez-Guzman, O. P. Jones, E. Neumark and S. Seno
SESSION SECRETARY: K. Kimura
HENRY M. STRATTON LECTURE
M. Bessis (Paris, France): From cell to molecule

INVITED PAPERS
M. Hanaoka (Kyoto, Japan): The reaction of lymphogenia and a typical lymphocyte
O. P. Jones (Buffalo, U. S. A.): Electron microscope studies of the nuclear membrane in mitotic erythroblasts
I. Gonzalez-Guzman* (Mexico City, Mexico): Citología y citogenesis de los plasmoedios
A. M. Marmont (Genova, Italy): Fluorescence microscopy in hematology

PRESIDENTIAL ADDRESS
S. Katsunuma
S. Ohno (Duarte, U. S. A.): Cytogenetic basis of a sexual dimorphism
in somatic interphase nuclei of mammals.
N. Senda (Osaka, Japan): The phagocytosis of leukocytes
S. Seno (Okayama, Japan): Heme and globin synthesis in erythroid cell in correlation with the cell organella
W. Tischendorf* (Hannover, Germany)

**Symposium on Reticuloendothelial System, its Morphological Entity and Function**
(14:00-15:30, Room B)

**CHAIRMEN**
C. Doan, O. Fresen, J. H. Heller, P. Introzzi, S. Katsunuma and K. Akasaki

**SESSION SECRETARY:** S. Amano

**INTEGRATED SPEECH**
J. H. Heller (Redgefield, U. S. A.): Functional studies on the RES

**INVITED PAPERS**
K. Akasaki (Sendai, Japan): Morphological study of RES
C. A. Doan (Columbus, U. S. A.): On the morphological entity of the reticuloendothelial system
T. Imai (Fukuoka, Japan): The vascular architecture of the spleen
R. Tanaka (Kyoto, Japan): Electron microscopic studies on ultrastructure and function of RES

**Symposium on Hemopoietic Factors**
(14:00–17:30, Room C)

**CHAIRMEN**
P. Introzzi, L. O. Jacobson, K. L. Keng, K. Nakao, H. Schulten and G. Wakisaka

**SESSION SECRETARY:** N. Senda

**INTEGRATED SPEECH**
L. O. Jacobson (Chicago, U. S. A.): Studies on the site of action, physiologic significance and site of production of erythropoietin, the erythropoietic hormone

**INVITED PAPERS**
E. L. Alpen (San Francisco, U. S. A.): Some observations on the mechanism of action of the erythropoietic substances
G. B. J. Glass (New York, U. S. A.): Paper, electrophoretic and isotope study of vitamin B_{12} binders in normal gastric juice
D. Hammond (Los Angeles, U. S. A.): The erythrocyte stimulating factor in serum and urine in congenital hypoplastic anemia
P. Introzzi (Pavia, Italy): Rapports antre rate et facteur erythropoietique
J. W. Linmann (Chicago, U. S. A.): Effects of humoral factors on hemopoiesis
E. Komiya (Tokyo, Japan): Studies on the humoral hemopoietic factors produced by central nervous system regulation
J. P. Naets (Bruxelles, Belgium): The role of the kidney in erythropoiesis
K. Nakao (Maebashi, Japan): Clinical and experimental studies on erythropoietic factor in plasma
M. Shimizu (Tokyo, Japan): Clinical and experimental studies of ceruloplasmin as erythropoietic factor
H. Ueda (Tokyo, Japan): Studies on the erythropoiesis-inhibitory effects of the plasma of rabbits with transfusion-induced polycythemia
D. C. Van Dyke (Berkeley, U. S. A.): Erythropoietin

**Thursday, September 8**

**Plenary Session IV: Coagulation**
(8:30–12:30, Room A)

**CHAIRMEN**

**SESSION SECRETARY:** T. Abe

**INTEGRATED SPEECH**
I. S. Wright (New York, U. S. A.): The role and the nomenclature of blood clotting factors
INVITED PAPERS

P. De Nicola (Pavia, Italy): Lipids and blood coagulation
G. Kosaki (Osaka, Japan): Studies on the role of blood platelets in the blood clotting, clot retraction and mechanical firmness of the clot
R. H. Landaburu (Detroit, U. S. A.): The activation of prothrombin
H. Morita (Tokyo, Japan): Studies on blood platelets
S. Pavlovsky (Buenos Aires, Argentina): Hemophilia, general review on factor VIII
P. A. Owren (Oslo, Norway): The mechanism of hemostasis
J. P. Soulier (Paris, France): Nouvelles fractions coagulates utilities in therapeutique
Y. Kawakita (Kumamoto, Japan): Effectiveness of splenectomy in the treatment of aregenerative anemia (aplastic and hypoplastic anemia)
K. L. Keng (Djakarta, Indonesia): Erythroblastopenia (aplastic anemia) in childhood in Djakarta
M. Layrisse (Caracas, Venezuela): Erythrokinetics in megaloblastic anemia of pregnancy
G. Marshall (Paris, France): De globulisation erises by block of erythroglastic maturation in chronic hemolytic anemia
M. Rachmilewitz (Jerusalem, Israel): The role of vitamin B12 absorption defects
T. Masuya (Fukuoka, Japan): Studies on serum iron-binding capacity
K. Nakao (Maebashi, Japan): The treatment of iron deficiency anemia, with special reference to iron dextran complex
M. Pollycove (Berkeley, U. S. A.): Ferrokinetics of refractory anemia

Friday, September 9

Plenary Session V: Anemia (8:30–12:30, Room A)

CHAIRMEN


SESSION SECRETARY: S. Shibata

INTRODUCTORY SPEECH


INVITED PAPERS

C. R. Das Gupta (Calcutta, India): Vitamin B12 and folic acid in pregnant women
L. W. Diggs (Memphis, U. S. A.): B12 deficiency and B12 absorption defects
M. Jamra (Sao Paulo, Brazil): Erythrokinetics in the hepatosplenomegalic form of mansonian schistosomiasis
Y. Kawakita (Kumamoto, Japan): Effectiveness of splenectomy in the treatment of aregenerative anemia (aplastic and hypoplastic anemia)
K. L. Keng (Djakarta, Indonesia): Erythroblastopenia (aplastic anemia) in childhood in Djakarta
M. Layrisse (Caracas, Venezuela): Erythrokinetics in megaloblastic anemia of pregnancy
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M. Pollycove (Berkeley, U. S. A.): Ferrokinetics of refractory anemia

Symposium on Hereditary Blood Diseases (14:00–17:30, Room B)

CHAIRMEN

Alf. S. Alving, E. Beutler, De Vries, Y. Kawakita, H. Lehmann and M. Masuda

SESSION SECRETARY: M. Hasegawa

INTRODUCTORY SPEECHES

E. Beutler (Duarte, U. S. A.): Sensitivity to drug-induced hemolytic anemia: A hereditary metabolic disorder of the erythrocyte

INVITED PAPERS

Alf. Alving (Chicago, U. S. A.): Glucose-6-phosphate dehydrogenase de-
Symposium on Antibody Synthesis (14:00–17:30, Room C)

CHAIRMEN
D. E. Campbell, Ph. Levine, K. Miyoshi, S. Seno and J. Waldenström

SESSION SECRETARY: T. Kuroyanagi

INTRODUCTORY SPEECH
J. Waldenström (Malmö, Sweden): Gamma globulin: Its clinical importance with special emphasis on autoimmunization

INVITED PAPERS
S. Amano (Kyoto, Japan): Cellular mechanism of the production of serum and tuberculin antibody
A. Eyquem* (Paris, France): Importance de anti-tissularres en immuno-pathologie
G. Filipp (Saarbrücken, Germany): The problem of bone marrow allergy
Ph. Levine (Raritan, U. S. A.): Production of anti-P and anti-Lewis in rabbits
D. Metcalfe (Melbourne, Australia): Effects of prolonged antigenic stimulation on lymphoid and reticular tissue of mice
M. Miyakawa (Nagoya, Japan): Antibody formation in germ-free animals
N. Tanaka (Tokyo, Japan): Antibody response and its significance in experimental typhoiditis

Saturday, September 10

Plenary Session VI: Immunohematology (3:30–12:30, Room A)

CHAIRMEN
W. Dameshek, J. Daussett, A. Eyquem, P. Levine, Y. Mikamo, S. Moeschlin, T. Ogata, J. L. Tullis and J. Waldenström

SESSION SECRETARY: K. Miyoshi

INTRODUCTORY SPEECH
J. Tullis (Boston, U. S. A.): Recent advances in the isolation and clinical significance of antileukocytic protein from normal and pathologic sera

INVITED PAPERS
A. Cajano (Napoli, Italy): On the changes of erythrocyte hemoglobin following the injection into guinea pigs of rabbit anti-guinea-pig erythrocyte sera
W. Dameshek (Boston, U. S. A.): Auto-immune hemolytic anemia—Recent considerations
J. Daussett (Paris, France): Etude des leucopénies et des thrombopénies à l'aide du test direct de consommation de l'antiglobuline sur leucocytes et sur plaquettes
W. J. Harrington (St. Louis, U. S. A.): Present status of platelet immunology
T. Kuroyanagi (Tokyo, Japan): Significance of localizing antibody in anti-leukocyte and anti-leukemic cell antibodies
M. Maekawa (Kyoto, Japan): Experimental blood cell specific allergies due to each blood cell phosphatide fraction and related substance, phytin
S. Okabayashi (Chiba, Japan): Prolonged sensitization and collagen diseases: an experimental study
Okubo (Osaka, Japan): Clinical and experimental studies on allergic granulocytopenia
G. Rubenstroth (Munich, Germany):
Über den Mechanismus und die biologische Bedeutung der Blutkörperchensenkung

**Symposium on Bone Marrow and Other Transplantations (14:00–17:30, Room B)**

**CHAIRMEN**
J. Bernard, W. Dameshek, E. Osogoe, L. M. Tocantins and S. Watanabe

**SESSION SECRETARY:** N. Matsuhashi

**INTRODUCTORY SPEECH**
W. Dameshek: Present status of bone marrow transplantation in man

**INVITED PAPERS**
J. W. Ferrebee (Cooperstown, U. S. A.): Experiences with marrow and kidney transplantations in Cooperstown
L. O. Jacobson (Chicago, U. S. A.): Some factors influencing the success of foreign hematopoietic colonization and subsequent secondary disease in irradiated animals
T. Makinodan (Oak Ridge, U. S. A.): An immunological approach to the study of radiation-induced blood chimeras
G. Mathé (Paris, France): Le syndrome secondaire observe apres irradiation et transfusion de cellules hematopoietiques
A. N. Morrison (Brooklyn, U. S. A.): Hematopoietic transplantation of human fetal tissues (liver and spleen)
M. Strumia (Bryn Mawr, U. S. A.): Preservation and transfusion of thrombocytes
F. Osogoe* (Ube, Japan): Behavior of transfused bone marrow cells and lymphocytes in irradiated rats
J. Trentin* (Houston, U. S. A.):
Y. Yamada (Hiroshima, Japan): Effect of homologous bone marrow and lymphatic tissue transplantation in x-irradiated experimental animals, with special references to modification of reparation of inflammation
J. M. Yoffey* (Bristol, England):

**Symposium on Fibrinolysis (14:00–17:30, Room C)**

**CHAIRMEN**
J. L. Ambrus, T. Astrup, K. Kato, H. Morita and M. Stefanini

**SESSION SECRETARY:** K. Fukutake

**INTRODUCTORY SPEECH**
T. Astrup (Copenhagen, Denmark): Pathology of fibrinolysis

**INVITED PAPERS**
T. Abe (Tokyo, Japan): Activating substances for fibrinolysis system
J. L. Ambrus (Buffalo, U. S. A.): Experimental and clinical studies with fibrinolytic enzymes
K. Kato (Tokyo, Japan): Analysis of fibrinolysis by the use of epsilon-amino-caproic acid
Okamoto (Kobe, Japan): Epsilon-amino-n-caproic acid and its suppressing effects to some biological phenomena associated with the activated fibrinolysis in the circulatory blood
C. M. Plum (Dianalud, Denmark): Serum copper serumoxidaseactivity in normal persons
M. Stefanini (Boston, U. S. A.): Mechanism of intravascular clotting and lysis of intravascular clots
C. L. Schneider (Ft. Wayne, U. S. A.): With acute cor pulmonale and hemorrhagic diathesis; apuptio placentae vs. other acute accidents of late pregnancy
P. De Nicola (Pavia, Italy): Research on thrombolytic therapy
Social Events

Receptions

During the Congress periods receptions will be arranged as follows:

Sunday, Sept. 4: Get-together Meeting

Monday, Sept. 5: President, Science Council of Japan and Chairman, Organizing Committee, at Takanawa Prince Hotel

Tuesday, Sept. 6: Minister of Education at Akasaka Prince Hotel

Thursday, Sept. 8: Governor of Tokyo at Koyosumi Park after Excursion

On September 9, there will be a Congress Banquet to which all the members of the Congress will be admitted at the Imperial Hotel. Tickets for the banquet will be available at Yen 3,000 and must be purchased at the registration office on September 4, 1960.

Excursions

On Thursday afternoon, September 8, there will be sightseeing tour around Tokyo. All participants and associate members are invited to take in the tour.

Ladies’ Program

For the members of families accompanying participants, the Ladies’ Committee is arranging an attractive program, including display of Kimonos, a day excursion to Nikko, demonstration of the traditional Japanese tea ceremony, display of a variety of Japanese handcrafts, and so on. Detailed information will be forwarded on request.

Post Congress Tours

Several tours of places of special interest are planned, to start after the close of the Congress. Special prospectuses may be obtained from the Secretary-Treasurer of the VIIIth Congress, Professor Shigeyasu Amano, VIII International Congress of Hematology, Science Council of Japan, Veno Park, Tokyo, Japan.

Kyoto Symposium on Hematology

Following the Congress and in conjunction with the post-Congress tour being planned by the Organizing Committee, there will be a symposium on hematology in Kyoto. It will be so arranged that Congress participants taking part in the tour to Kyoto will be able to attend the symposium. Applications for attending the symposium will be accepted at the Congress Office in Sankei Kaikan at the time of registration on Sunday, September 4. Details about the Kyoto symposium may be obtained by writing to Professor Shigeyasu Amano, at the address given in the preceding paragraph.

Officers of the VIII Congress

International Society of Hematology

PRESIDENT
Seizo Katsunuma

PRESIDENT-ELECT
I. Gonzales Guzman

VICE-PRESIDENTS

Jean Bernard
C. R. Das Gupta
Oliver P. Jones
Jan Waldenström

CONGRESS VICE-PRESIDENT, VIIIth CONGRESS
Yoshio Mikamo

SECRETARY GENERAL, EASTERN HEMI-

In several cases before and after splenectomy in humans and experimental animals the influence of the spleen on the lytic functions of fresh serum was examined, as were the activity of total complement and of its separate fractions. It was found that splenectomy does influence the change of activity of one or more complement components, but the titer of the total complement remained unchanged. As a result of induced anaphylactic and hemolytic shock in experimental animals a rapid fall of total complement activity was noted, whereas during the course of shock it was still possible to show some activity of certain components.—E. K.