

## MEETINGS

November 13-16, 1967 - Oak Ridge, Tennessee, U.S.A.

### Radioisotopes in medicine - In vitro studies

#### PRELIMINARY PROGRAMME

##### *Introduction*

- Present status of in vitro radioisotopic studies  
W. Newlon Tauxe, Mayo Clinic, Rochester, Minnesota, U. S. A.

##### *Hormonal assays*

- General principles of radioimmunoassay  
R. S. Yalow, Veterans Administration Hospital, Bronx, New York, U. S. A.
- Mathematical analysis of the radioimmunoassay or « saturation » method  
R. Ekins, Middlesex Hospital, London, England
- Mechanism of action of insulin  
Ph. J. Randle, University of Bristol, Bristol, England
- Factors affecting insulin release  
G. Grodsky, University of California, San Francisco, California, U. S. A.
- The physiologic role of glucagon  
K. D. Buchanan, University of Washington School of Medicine, Seattle, Washington, U. S. A.
- Normal and abnormal secretion of growth hormone in man  
W. H. Daughaday, Washington University School of Medicine, St Louis, Missouri, U. S. A.
- Thyroid-stimulating and gonadotropic hormones  
W. Odell, University of California Medical School, Los Angeles, California, U. S. A.
- Parathyroid hormone and thyrocalcitonin  
J. Potts, Jr., National Heart Institute, Bethesda, Maryland, U. S. A.
- ACTH radioimmunoassay  
D. Orth, Vanderbilt University School of Medicine, Nashville, Tennessee, U. S. A.

##### *Protein binding studies*

- Basic methods  
B. Murphy, Queen Mary Veterans Hospital, Montreal, Quebec, Canada

- Triiodothyronine  
W. Newlon Tauxe, Mayo Clinic, Rochester, Minnesota, U. S. A.
- Thyroxine binding  
K. Sterling, Veterans Administration Hospital, Bronx, New York, U. S. A.
- Thyroxine-binding globulin deficiency and excess : detection, effects and genetics  
U. S. Seal, Veterans Administration Hospital, Minneapolis, Minnesota, U. S. A.
- Estrogen binding, testosterone binding  
W. Rosenbaum, Columbia University College of Physicians and Surgeons, New York, U. S. A.
- Corticosteroid binding globulin  
R. P. Doe, Veterans Administration Hospital, Minneapolis, Minnesota, U. S. A.

### *Hematology*

- Iron-binding protein  
J. D. Cook, University of Washington School of Medicine, Seattle, Washington, U. S. A.
- Vitamin B<sub>12</sub> and intrinsic factor antibodies  
Ch. A. Hall, Veterans Administration Hospital, Albany, New York, U. S. A.
- Intrinsic factor assay  
L. W. Sullivan, Boston University Medical Center, Boston, Massachusetts, U. S. A.
- Isotope dilution methods  
V. Herbert, Mount Sinai Hospital, New York, New York, U. S. A.
- Radioenzymatic assays for folic acid, folate reductase and folic acid antagonists  
Sh. P. Rothenberg, New York Medical College, New York, U. S. A.

### *Activation analysis*

- Basic concepts of activation analysis  
To be announced
- Techniques and methodology  
G. W. Leddicotte, University of Missouri, Columbia, Missouri, U. S. A.
- Reference standards for biological activation analysis  
J. R. DeVoe, U. S. Department of Commerce, National Bureau of Standards, Washington, D. C., U. S. A.
- Analysis of biologic tissue without chemical separation  
R. D. Cooper, Massachusetts Institute of Technology, Cambridge, Massachusetts, U. S. A.

- Potential applications in clinical medicine  
R. H. Tomlinson, MacMaster University, Hamilton, Ontario, Canada
- Stable isotopes as biologic tracers  
J. T. Lowman, University of Minnesota Hospitals, Minneapolis, Minnesota, U. S. A.
- Trace elements  
W. Bethard, General Atomic, San Diego, California, U. S. A.
- Activation analysis in forensic science  
J. M. A. Lenihan, Western Regional Hospital Board, Glasgow, Scotland.
- The availability and present status of activation analysis  
V. P. Guinn, General Atomic, San Diego, California, U. S. A.
- Future of transuranium elements as neutron sources  
D. E. Ferguson, Oak Ridge National Laboratory, Oak Ridge, Tennessee, U. S. A.

*Cytologic and chromosomal labeling*

- In vitro tests of phagocytosis  
S. Kaihara, The Johns Hopkins Medical Institutions, Baltimore, Maryland, U. S. A.
- Lymphocyte transformation : basis for in vitro histocompatibility testing  
F. Bach, University of Wisconsin, Madison, Wisconsin, U. S. A.
- Lymphocyte labeling and antibody production  
G. J. Thorbecke, New York University Medical School, New York, New York, U. S. A.
- Use of radioiodine in immunological studies of tumors  
Y. Yagi, Roswell Park Memorial Institute, Buffalo, New York, U. S. A.
- Rationale and biochemistry of tritiated thymidine as a cell label  
J. R. Rubini, Veterans Administration Hospital, Coral Gables, Florida, U. S. A.
- High resolution autoradiography  
W. E. Stumpf, University of Chicago, Chicago, Illinois, U. S. A.
- Electron microscope autoradiography  
E. de Harven, Sloan-Kettering Institute for Cancer Research, New York, New York, U. S. A.
- Problems and pitfalls of chromosomal labeling  
J. Rowley, Argonne Cancer Research Hospital, Chicago, Illinois, U. S. A.
- Autoradiographic studies in chronic myelocytic leukemia  
K. Goh, Oak Ridge Associated Universities, Medical Division, Oak Ridge, Tennessee, U. S. A.

CORRESPONDENCE

Oak Ridge Associated Universities, Medical Division, special training division, Oak Ridge, Tennessee, U. S. A.

May 19-25, 1968 - Liège, Belgium

## International Symposium on Protein and Polypeptide Hormones

### PROGRAMME

1. *Radioimmunoassay of polypeptide hormones.*
2. *Assays of gonadotropins.*
3. *Mode of action of protein and polypeptide hormones on : a) lipolysis, b) lipogenesis.*
4. *Mode of action of ACTH.*
5. *Relationship of structure to activity of polypeptide hormones.*
6. *Mode of action of protein and polypeptide hormones on the transport of : a) ions, b) glucides, c) amino acids, d) lipids.*

### COMMUNICATIONS

The participants who wish to submit a communication upon one of the above subjects are required to send as soon as possible to the Symposium office the following information :

- a) Name, qualification, profession and address.
- b) Title of the communication.

### CORRESPONDENCE

Dr. M. Margoulies, M. D., General Secretary of the International Symposium on Protein and Polypeptide Hormones, Institut de Médecine, 66, Bd. de la Constitution, Liège (Belgium).

June 2-4, 1968, Chicago, Illinois, U.S.A.

## High Resolution Autoradiography of Diffusible Substances

### CORRESPONDENCE

Prof. L. J. Roth, Chairman, Department of pharmacology, University of Chicago, 947 East 58th Street, Chicago, Illinois, U. S. A.