Program

Shoreham Hotel, Washington, D.C. 17-21 October, 1965
Sponsored by the American Society for Microbiology and the International Society of Chemotherapy

Officers and Committees

American Society for Microbiology
President: R.D. Housewright, Fort Detrick, Frederick, Md. Vice-President: W.B. Sarles, University of Wisconsin, Madison Secretary: Philipp Gerhardt, The University of Michigan, Ann Arbor Treasurer: H.B. Woodruff, Merck, Sharp and Dohme, Rahway, N.J.

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Infectious Diseases Society of America

Fifth Interscience Conference on Antimicrobial Agents and Chemotherapy – IVth International Congress of Chemotherapy Committee, ASM
Secretary: Julius Berger, Hoffmann-La Roche Inc., Nutley, N.J.

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Social Program: F. E. Hahn (Chairman), Walter Reed Hospital, Washington, D.C.
Publicity: Edward Katz (Chairman), Georgetown University, Washington, D.C.
Local Arrangements: L.G. Herman (Chairman), National Institutes of Health, Bethesda, Md.
Ladies Activities: Mrs. Fred E. Hahn
Finance: H.B. Woodruff (Chairman), Merck, Sharp & Dohme, Rahway, N.J.
Invitation

The Fifth Interscience Conference on Antimicrobial Agents and Chemotherapy and IVth International Congress of Chemotherapy will be held 17-21 October 1965, in Washington, D.C, USA. The Congress is sponsored by the American Society of Microbiology and the International Society of Chemotherapy, and the program is arranged with the cooperation and support of the Infectious Diseases Society of America. The goal of the Congress is to stimulate the exchange of new information among microbiologists, clinicians, chemists, biochemists, pharmacologists, pathologists, and members of related scientific disciplines interested in antimicrobial agents and chemotherapy.

Attendance is open to all scientists. However, the American Society for Microbiology does not officially sponsor or assume responsibility for visas of delegates.

All sessions will be held in the Shoreham Hotel.

Hotel Reservations

Sufficient sleeping rooms are available to house all registrants at the Shoreham Hotel. Reservations should be made as early as possible and sent directly to the Shoreham Hotel, Washington, D.C. All request for reservations received by 1 October will be acknowledged by the Shoreham Hotel. Additional reservation forms may be obtained by writing to the American Society for Microbiology, 115 Huron View Blvd., Ann Arbor, Mich. 48103.

Registration and Fees

Registration is required for admittance to all scientific sessions, social functions, and the exhibits.

Registration facilities will be available commencing Sunday, 17 October, in the Upper Lobby, and delegates are urged to register on arrival. There will be no pre-registration.

The regular registration fee is $25.00, which includes admittance to all scientific sessions and social functions, the Program, a copy of Abstracts (available at the Program meeting), and a copy of Antimicrobial Agents and Chemotherapy–1965, which will be mailed to registrants in mid-1966.

Students and professional people in training (credentials required) may attend by paying a daily fee of $7.00 per day. Payment of this special fee will entitle registrants to the Program, a copy of Abstracts, but not a copy of Antimicrobial Agents and Chemotherapy–1965. Social activities are included in this daily fee all days except Wednesday.

Spouses of registrants may register for a fee of $15.00, which includes all social events and a copy of the Program.

Registration will be open during the following hours:
Sunday, October 17: 2 PM to 10 PM; Monday, October 18: 8 AM to 5 PM; Tuesday, October 19: 8 AM to 5 PM; Wednesday, October 20: 8 AM to 5 PM; Thursday, October 21: 8 AM to 2 PM.

Scientific Program
The Congress will open officially at the Opening Session on Sunday evening, 17 October, at 8 PM.
Scientific sessions will be convened mornings and afternoons, Monday through Thursday, with the exception of Wednesday afternoon. A summary of the sessions, and a floor plan showing the location of all meetings and activities, may be found inside the back cover of this Program.

Social Program
Sunday, 17 October. Informal Dutch-treat Mixer in the Palladian Room, Shore-ham Hotel, immediately after the Opening Session. Open to all registrants.
Tuesday, 19 October. Special viewing of the National Gallery of Art from 8 to 10 PM. Buses will leave the Shoreham Hotel at 7:30 PM. Open to all registrants on presentation of badges.
Wednesday, 20 October. Afternoon excursion to Mount Vernon by boat. Buses will leave the Shoreham Hotel at 1 PM and return at 6 PM. Open to all regular registrants. Tickets will be in registration packet.
Wednesday, 20 October. President’s Reception from 8 to 11 PM, Regency Ballroom, Shoreham Hotel. Open to all regular registrants. Tickets will be in registration packet. Extra tickets for individuals and their guests interested in the aims of the Congress may be purchased at the Registration Desk.
Thursday, 21 October. Chamber music concert, Library of Congress, 8:30 PM. Buses will leave the Shoreham Hotel between 7:30 and 8 PM. Open to all registrants of the Congress. Because of the limited availability of tickets, registrants are requested to sign up in advance at the Information Desk, and to pick up tickets at the same place on Thursday.

Tour and Ladies’ Activities
Daily. Hospitality Suite, Club Room A, Shoreham Hotel.
Daily. Guided bus tours of Washington, D.C., and Alexandria, Va. A visit to the White House will be included.
Monday, 18 October. Embassy tour at 1:30 PM, including tea at one of the embassies.
Tuesday, 19 October. Ladies’ luncheon and fashion show at the Hilton Hotel. Thursday, 21 October. Full-day excursion by bus to the Shenendoah National Park.
Tickets for all tours and ladies’ activities will be available at the Registration Desk.

Program
Exhibits
Participants of the Congress are invited to visit the Exhibit Hall, located between the Diplomat Room and the Regency Ballroom, where manufacturers and distributors will display the latest equipment, supplies, products, and publications covering the subject interest of the meeting.
The Exhibit Hall will be open during the following hours:
Monday: 8:30 AM to 5:30 PM; Tuesday: 9:00 AM to 5:00 PM; Wednesday: 9:00 AM to 1:00 PM; Thursday: 9:00 AM to 3:00 PM.

Exhibitors to date are listed below. Descriptions of exhibits will be provided with the registration packet.

Academia Books Exhibits
Academic Press, Inc. Intercontinental Medical Book Corp.
Information, Mail, and Messages

The Information Desk will be located near the Registration Desk in the Upper Lobby, and will be open during the hours of registration. The information Desk will be the clearing point for messages and emergency telephone calls (AD 4-0700 Code 202), will receive manuscripts submitted for publication, will accept orders for Antimicrobial Agents and Chemotherapy, and will have information on the Congress and Washington.

Participants expecting mail should have it sent directly to them at their hotel of residence.

Daily Newsletter

Special announcements, program additions or changes, and newsworthy items concerning the Congress, will be included in a newsletter which will be published daily during the Congress. The newsletter will be available each morning at the Information Desk and at other convenient points in the registration area. Items for inclusions in the newsletter should be left at the Information Desk by 4 PM on the day preceding publication.

Press Room

The Press Room will be the Heritage Room, located in the Lower Lobby. Press registration and credentials will be handled in the Press Room. The Press Room will be under the direction of Edward Katz, and will be open daily from 8:30 AM to 5 PM, Monday, 18 October, through Thursday, 21 October. Daily press releases and conferences will be arranged by the Publicity Committee.

Questions concerning advance arrangements should be addressed to R.W. Sarber, Executive Secretary, ASM, 115 Huron View Blvd., Ann Arbor, Mich.

Abstracts The Abstracts to this Congress will appear separately. A copy will be furnished to each registrant upon registration. Extra copies will be available at the Information Desk, or from the ASM Headquarters (115 Huron View Blvd., Ann Arbor, Mich.), at $1.00 per copy.

Proceedings of the Congress

The proceedings of the Congress will be published under the title Antimicrobial Agents and Chemotherapy—1965.

Additional Information

Persons desiring additional information on any phase of the Congress, additional hotel reservation forms, or additional copies of the Program, should write to: R.W. Sarber, Executive Secretary, American Society for Microbiology, 115 Huron View Blvd., Ann Arbor, Mich. 48103.
International Society of Chemotherapy Business Meeting

The International Society of Chemotherapy will hold its annual Business Meeting at 4:45 PM, Tuesday, 19 October, in the Diplomat Room, Shoreham Hotel.

Sunday Evening
Regency Ballroom, 8:00 PM

G.M. Savage, General Chairman, Presiding
Greetings from American Society for Microbiology: R.D. Housewright, President
Greetings from International Society of Chemotherapy: F. Magrassi, President
Greetings from Infectious Diseases Society of America: J.F. Enders, President


‘A Quarter-Century of the Antibiotic Era’. S. A. Waksman, Rutgers, The State University, New Brunswick, N.J.

J.F. Enders, Harvard University Medical School, Boston, Mass. Mixer following in the Palladian Room.

Session I
Monday Morning: Infectious Diseases
Regency Ballroom, 8:30 AM

Conveners: David Rogers, Vanderbilt University Medical School, W.R.O. Goslings, University of Leyden, The Netherlands.

8:30 1. Inhibition of Pulmonary Bacterial Clearance During Acute Renal Failure. Elliot Goldstein* and Gareth M. Green. Channing Laboratory, Boston City Hospital, and Harvard Medical School, Boston, Mass.

8:42 2. Patterns of Susceptibility to Bacterial Infection in Murine Influenza. Gareth M. Green*. Channing Laboratory, Boston City Hospital, and Harvard Medical School, Boston, Mass.


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10:30 11. Epinephrine Induced Recurrent Herpetic Keratitis in Rabbits. Peter R. Laibson* and Sidney Kibrick. Retina Foundation, Institute of Biological and Medical Sciences, and Boston University School of Medicine, Boston, Mass.


Session 2

Monday Morning: Symposium on the Chemistry of Antibiotics
Palladian Room, 8:30 AM


Program


Chemistry of Depsipeptide Antibiotics. M. M. Schemyakin. Institute for Chemistry of Natural Products, USSR Academy of Sciences, Moscow.


Session 3

Monday Afternoon: Infectious Diseases–II
Regency Ballroom, 1:30 PM


3:30 26. Fluorescent Antibody Technique in the Rapid Diagnosis of Clinical Bacterial Infections. A.J. Nahmias, L. Brahen, M.S. Mitchell and C. Luce. Emory University School of Medicine, Grady Memorial Hospital, and Communicable Disease Center, Atlanta, Ga.


4:06 29. Staphylococcal Bacteremia Persisting For 22 months Following Open Heart Surgery. Monroe J. Romansky* and Alden H. Blackman. The George Washington University Hospital and the George Washington University School of Medicine, Washington, D.C.

Session 4
Monday Afternoon: Symposium on the Biogenesis of Antibiotics
Palladian Room, 1:30 PM
Convener: J.W. Corcoran, Western Reserve University Medical School.
Biosynthesis of Macrolide Antibiotics. H. Griesebach. University of Freiburg, Freiburg, Germany.
Biogenesis of Cycloheximide and of Related Compounds. Z. Vanek* and M. Vondracek. Institute of Microbiology, Academy of Science, Prague, and Research Institute of Antibiotics, Roztoky, Czechoslovakia.
Biosynthesis of Antibiotic Polypeptides, as Distinguished from Protein Synthesis. Bernard Mach. The Rockefeller Institute, New York, and Institute of Molecular Biology, Geneva, N.Y.
Biosynthesis of the Tetracyclines. J.R. McCormick. Lederle Laboratories, American Cyanamid Co., Pearl River, N.Y.

Session 5
Tuesday Morning: Clinical Studies
Regency Ballroom: 8:30 AM
Convener: M. Hamburger, University of Cincinnati Medical School, G.T. Stewart, University of North Carolina.

8:54 55. Three-Year Evaluation Study of Nafcillin in the Therapy of Chronic Osteomyelitis. L. G. Smith. St. Michael Hospital, Newark, N.J.


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9:54 60. Methicillin and Other Semisynthetic Penicillins in the Management of Staphylococcal Endocarditis. Joseph E. Geraci*, Robert L. Frye and Jack L. Titus. Mayo Clinic, Mayo Graduate School of Medicine, Rochester, Minn.

Session 6
Gram-Negative Infections (Round Table)
Convener: R. G. Petersdorf, University of Washington Medical School.

The Round Table on Gram-Negative Infections will consist of a series of questions posed to experts in the field. These questions will deal with the pathophysiology of endotoxin shock, the problem of tolerance in defense against gram-negative infections, the role of immune mechanisms in gram-negative infections, clinical and therapeutic aspects of gram-negative bacteremia, the problem of gram-negative superinfections, selected aspects of urinary-tract infections, and some clinical and epidemiological studies of salmonellosis.

Participants:
R.G. Petersdorf, University of Washington (chairman); E.W. Hook, Cornell University Medical College, New York, N.Y.; D.B. Louria, Cornell University Medical College, New York, N.Y.; S.B. Greisman, University of Maryland School of Medicine, Baltimore, Md.; J.P. Sanford, University of Texas (Southwestern) School of Medicine, Dallas, Texas; W.R. McCabe, School of Medicine, Boston University, Boston, Mass.

Session 7
Tuesday Morning: Symposium on the Chemotherapy of Mycobacterial Diseases
Palladian Room, 8:30 AM

Conveners: G. Brouet, Hôpital Cochin, Paris, France; W.B. Tucker, Veterans Administration, Washington, D.C.


Session 8
Tuesday Morning: Chemistry of Antibiotics and Other Antimicrobial Agents and Biogenesis of Antibiotics
Diplomat Room, 8:30 AM
Conveners: V. Prelog, Swiss Federal Institute, Zurich, Switzerland; J. Fried, University of Chicago.


9:57 42. Comments on the Biogenetic Relationships of the Erythromycins and the Lactone of Erythromycin B. Jaroslav Spizek, Malcolm Chick* and John W. Corcoran. Western Reserve University, Cleveland, Ohio.


10:33 45. Biogenesis of the Circulins. Dale Grant and Henry Koffler*. Purdue University, West Lafayette, Ind.

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Sessions 9 and 10
Tuesday Morning: The Activities of I.C.I.A. (Informal Discussion) Tudor Room, 8:30 AM
Convener: M. Welsch, University of Liege, Liege, Belgium.

No doubt many scientists engaged in the search for new antibiotics, or working on the purification, chemistry, or biosynthesis of such substances, will attend the I.C.I.A. We hope that they will find time to attend our round-table discussion in order to tell what they think of the missions ascribed to I.C.I.A., how the Center can best fill them, and what other problems should be studied.

We still firmly believe that some coordination by an independent organization is highly desirable in the field of antibiotics, to minimize as much as possible, the waste of money, time, and intellectual power. But, remain convinced that such an enterprise is possible only with the unreserved cooperation of all concerned.

Practical Methods for Handling Information on Antibiotics and Chemotherapy (Informal Discussion)
10:15 AM
Convener: R.E. Bennett, Squibb Institute for Medical Research.

Efficient scientific research in any field with as voluminous literature as antibiotics and chemotherapy requires efficient and practical methods for the handling (i.e., storage, retrieval, and communication) of information. The conference will discuss: dissemination and retrieval of information pertaining to microbiology and chemotherapy by citation indexing; drug index card systems; computer handling of clinical literature; dissemination of computer-selected titles as a method of communication of scientific information; and role of the scientist from the information section on the multidisciplinary research team. There will also be a trip to the National Library of Medicine.

Participants:

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Sessions 11 and 12
Tuesday Afternoon: Clinical Studies II
Regency Ballroom, 1:30 PM
Convener: W.M.M. Kirby, University of Washington Medical School; A.R. Frisk, Ersta Hospital, Stockholm, Sweden.

1:30 61. Prevention of Catheter Induced Urinary Infections by a New Sterile Closed Drainage System. Calvin M. Kunin. University of Virginia School of Medicine, Charlottesville.


1:54 63. Evaluation of Umbilical Cord Care Regimens. Robert A. Beargie. Children’s Memorial Hospital, University of Oklahoma Medical Center, Oklahoma City.


Are New Antibiotics Needed? {Round Table)
3:00 PM
Conveners: Maxwell Finland, Harvard University Medical School; W.M.M. Kirby, University of Washington Medical School.
This panel represents a wide range of experience and each will present his answer to the best of his ability.
Participants:
M. Finland, Harvard University Medical School, Boston, Mass.; W.M.M. Kirby, University of Washington Medical School, Seattle; E.B. Chain, Imperial College of Science, London, England; Y.A. Chabbert, Institut Pasteur, Paris, France; Mary Barber, Postgraduate Medical School, London, England; L.P. Garrod, St. Bartholomew’s Hospital, London, England; C.W. Petteiga, Eli Lilly & Co., Indianapolis, Ind.; A.C. Todd, University of Wisconsin, Madison; H.F. Dowling, University of Illinois Medical School, Chicago.

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Session 13
Tuesday Afternoon: Symposium on Clinically Important Antibiotics as Biochemical Tools
Palladian Room, 1:30 PM
Convener: J.T. Park, Tufts University School of Medicine.
Antibiotics and Fungal Physiology. J. Oliver Lampen. Rutgers, The State University, New Brunswick, N.J.

Session 14
Tuesday Afternoon: New Antibiotics
Diplomat Room, 1:30 PM
Conveners: N. Bohonos, Lederle Laboratories; M.G. Braznikova, Institute of New Antibiotics, Moscow.


Session 15

Tuesday Afternoon: In Vitro Studies

Tudor Room, 1:30 PM

Conveners: P.D. Hoeprich, University of Utah College of Medicine; Mary Barber, Postgraduate Medical School, London, England.

1:30 120. Examination of Antimicrobial Synergism Between Vernamycin A and Other Antibiotics. Edward Meyers, Dorothy A. Smith and D. Perlman*. Squibb Institute for Medical Research, New Brunswick, N.J.


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3:18 129. Gonococcal Susceptibility to Penicillin in Five Metropolitan Areas of the U.S. James D. Thayer, John E. Martin, Jr., Nancy L. Shearin and James B. Lucas. Venereal Disease Research Laboratory, Communicable Disease Center, Atlanta, Ga.
4:18 134. Use of Semisynthetic Penicillins in Media For Tissue Culture Cultivation. Marvin S. Legator* and Robert J. Reedy. Food and Drug Administration, Washington, D.C.

Session 16
Wednesday Morning: New Penicillins
Regency Ballroom, 8:30 AM
Conveners: L.G. Weinstein, Tufts University Medical School; R Knox, Guy’s Hospital Medical School, London, England.
8:54 144. In vitro and in vivo Laboratory Comparison of Cephalothin and Des-acetylcephalothin. Warren E. Wick. The Lilly Research Laboratories, Indianapolis, Ind.

Program


10:06 150. Clinical Experience with Cephaloridine. G.K. Daikos*, P. Kontos, Michalos and G. Tsekos. Athens University Medical School, Alexandria Hospital, Athens, Greece.


10:30 152. Cephaloridine Therapy as Related to Renal Function. Sherwin A. Kabins* and Sidney Cohen. Michael Reese Hospital and Medical Center, Chicago, III.


10:54 154. Dicloxacillin—Laboratory and Clinical Studies. Peter Naumann. Institute of Clinical Bacteriology of the University of Hamburg, Hamburg Eppendorf, West Germany.


Session 17

Wednesday Morning: Clinical Studies—III; Antifungal Agents

Palladian Room, 8:30 AM

Conveners: M.J. Romansky, George Washington University Medical School; S.D. Rubbo, University of Melbourne, Melbourne, Australia.


9:18 72. Chemotherapy of Pelvic Inflammatory Disease. Shigemitsu Mizuno and Seiji Matsuda*. Juntendo University School of Medicine, Tokyo, Japan.

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9:30 73. Improved Medium Selective for the Cultivation of Neisseria gonorrhoeae and N. meningitidis from Contaminated Specimens. James D. Thayer and John E. Martin, Jr*. Veneral Disease Research Laboratory, Communicable Disease Center, Atlanta, Ga.

Cephalothin Therapy in Male Gonorrhea. James B. Lucas, James D. Thayer, Philip M. Utley, Terrence E. Billings* and James F. Hackney. Veneral Disease Research Laboratory, Communicable Disease Center, Atlanta, Ga.

Treatment of Male Gonorrhea with Cephaloridine. James B. Lucas*, James D. Thayer, Philip M. Utley, Terrence E. Billings and James F. Hackney. Veneral Disease Research Laboratory, Communicable Disease Center, Atlanta, Ga.

9:42 76. Comparison of Penicillin and Spectinomycin in the Treatment of Gonorrhea in the Female. P. Frederick Sparling* and Anne Yobs. Veneral Disease Research Laboratory, Communicable Disease Center, Atlanta, Ga.


10:06 78. Pharmacology and Clinical Trial of Abitilguanide. Arcadio Barano. Lamarck Research Institute, Buenos Aires, Argentina.

10:18 79. Gentamicin: Laboratory and Clinical Studies in Infants and Children. A.W. Nunnery, Jr* and H.D. Ralley, Jr. Children’s Memorial Hospital, University of Oklahoma Medical Center, Oklahoma City.


Sessions 18 and 19:
Wednesday Morning: Pharmacology
Diplomat Room, 8:30 AM

Conveners: C. Kunin, University of Virginia Medical School; P. Naranjo, L.I.F.E. Laboratories, Quito, Ecuador.


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9:06 159. Tolerability of Tetracycline in Renal Failure. J. Moeller and C. Kaya. City Hospital, Hildesheim, West Germany.


9:42 162. Antagonism Between Colistin and Neostigmine on Skeletal Muscle. P. Naranjo* and E. de Naranjo. Faculty of Medicine and L.I.F.E. Laboratories, Quito, Ecuador.

Antibiotic Assay Methods (Round Table) 10:00 AM

Convener: F. Kavanagh, Eli Lilly & Co.

K.E. Cooper, University of Bristol, will discuss the many factors influencing size of inhibition zones and their importance in antibiotic assaying by plate methods. Advantages, disadvantages, and misapplications of plate methods will be indicated.

T.B. Platt, E. R. Squibb and Sons, will discuss application of photometric methods to assay for antibiotic substances. Automation of assays and instrumentation and procedures needed to attain assays on an ultra-micro scale will be considered.

A. Kirshbaum, F.D.A., will discuss the public health significance of penicillin contamination of drugs, the methods of assay developed to measure sub-micro-gram quantities of penicillins, and problems encountered in applying the methods.

Sessions 20 and 21.

Wednesday Morning: New Antibiotics II

Tudor Room, 8:30 AM


Program


Antibiotics Nomenclature (Informal Discussion)

10:00 AM

Convener: S.A. Waksman, Rutgers, The State University; J. Ehrlich, Parke Davis & Co.

At present there is a profusion of names for various antibiotics. The identity of a particular antibiotic is often confused by the proliferation of generic, chemical, and proprietary names, all used to denote the same substance. The American Society for Microbiology has appointed a committee to review this problem and to propose useful remedies. A subcommittee has
formulated several proposals, and these will be discussed by the subcommittee chairman, H.B. Woodruff. The ASM Committee includes: R.E. Bennett, R. Donovick, J. Ehrlich, M. Finland, T.G. Pridham, C.P. Schaffner, S.A. Waksman and H.B. Woodruff.

Sessions 22 and 23
Wednesday Morning: Bacterial Sensitivity Testing Methods (Round Table) Executive Room, 8:30 AM
Several methods and innumerable variants of them are used for testing bacterial sensitivity to antibiotics. The general adoption of one satisfactory method is desirable, both to provide clinically significant results to enable comparison of the findings of different workers. An account will be given of the efforts made by an Expert Committee of the World Health Organization to define a standard method, and of the results of a collaborative international study of its application. Other speakers will deal with the reproducibility of results when the same method is used in different laboratories, and with the merits of different methods for particular purposes.
Participants:

Program
Bacterial Sensitivity Testing Program (Informal Discussion) 10:15 AM
A standard method proposed by the WHO Committee is one employing discs. A report will be available defining the steps in this method on which agreement is necessary in detail. A purely technical discussion is proposed on such matters as the antibiotic content of discs, composition of media, methods of inoculating plates, spacing of discs, the merits of pre-diffusion, and methods of reading and expressing results.
Participants:

Session 24
Thursday Morning: Symposium on the Penetration of Drugs into Tissues Regency Ballroom, 8:30 AM
Convener: W.F. Verwey, University of Texas Medical Branch.
Penetration of Chemotherapeutic Agents into Tissues. W.F. Verwey. The University of Texas Medical Branch, Galveston.
Therapeutic Implications of Serum Protein Binding of the New Synthetic Penicillins. Calvin M. Kunin. University of Virginia School of Medicine, Charlottesville.
Passage of Drugs Into and Out of the Central Nervous System. Lewis S. Schanker. National Heart Institute, Bethesda Md.
Mechanisms of Drug Transfer Across the Placenta. Frank Moya, University of Miami School of Medicine and Jackson Memorial Hospital, Miami, Fla.

Sessions 25 and 26
Thursday Morning: New Antibiotics–III
Palladian Room, 8:30 AM
Conveners: J. Lein, Bristol Laboratories; J. Schmidt-Tome, Hoechst AG, Germany.
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8:54 116. Septacidin Analogues. A. Aszalos*, P. Lemanski, B. Berk and J.D. Dutcher. The Squibb Institute for Medical Research, New Brunswick, N.J.
9:18 118. Reconstruction of Blasticidin S from its Degradates. Hiroshi Yone-hara* and Noboru Otake. Institute of Applied Microbiology, University of Tokyo, Tokyo, Japan.
9:30 119. Chemistry of Olivomycin, an Antitumor Antibiotic. M. G. Brazhnikova. Institute of New Antibiotics, Moscow, USSR.
Antifungal Agents (Round Table) 10:0 AM
Convener: W.D. Sutliff, Veterans Administration Hospital, Memphis.
Two therapeutic agents, hydroxystilbamidine and amphotericin B, are in use that have favorable effects on the otherwise high fatality rates of certain systemic mycoses, but their limitations have created problems in turn. They have selective effects on different diseases, their relative values for the same disease are not clear, methods of administration are confusing, and severe limitations in their application are enforced by their toxicity. Better antifungal agents are needed and additional in vitro studies of some new agents are reported annually, but only a few survive the critical examination required to gain the economic and biological approval necessary to human trials. Two promising new antifungal agents will be described, X5079C, which has had a therapeutic trial but is not in production, and hamycin, related to amphotericin B, for which human pharmacology has not yet been reported. These two antibiotics may improve our capabilities in the treatment of systemic mycoses, and their present status will illustrate the state of this endeavor and the character of the efforts that are needed for its satisfactory completion.
Participants:
W.D. Sutliff, Veterans Administration Hospital, Memphis, Tenn.; J.F. Busey, Veterans Administration Center, Jackson, Miss.; J.H. Seabury, Louisiana State University, New Orleans, La.; J.P. Utz, National Institutes of Health, Bethesda, Md.; M.J. Thirumalachar, Hindustan Antibiotics, Pimpri, India.
Thursday Morning: Experimental Infections
Diplomat Room, 8:30 AM
8:30 168. Pathogenesis of Candidiasis. Donald B. Louria. Cornell University, Medical College, New York, N.Y.

Program
8:54 170. On the Role of the State Macroorganisms in Chemotherapy of Infectious Diseases. A.V. Loginov. Chemico-pharmaceutical Institute, Leningrad, USSR.
9:30 173. Effect of Dietary and Intramuscular Administration of Penicillin on Caries in Sialoadenectomy and Intact Rats. S. Rosen* and L. Carpenter. Ohio State University, Columbus.
9:54 175. Laboratory Search for New Alternates in the Treatment of Syphilis. John W. Clark, Jr.* and Anne R. Yobs. Veneral Disease Research Laboratory, Communicable Disease Center, Atlanta Ga.

Session 28
Thursday Morning: Mode of Action and In Vitro Studies
Tudor Room, 8:30 AM
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<tr>
<th>Session Time</th>
<th>Program</th>
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<tbody>
<tr>
<td>9:06</td>
<td>185. Effects of Vernamycins on Aminoacyl Transfer RNA Binding to Escherichia coli Ribosomes. A.I. Laskin* and W.M. Chan. Squibb Institute for Medical Research, New Brunswick, N.J.</td>
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<tr>
<td>9:30</td>
<td>187. Further Observations on the Effect of Erythromycin-A on Protein Synthesis in Soluble Extracts of Bacillus subtilis. Sheldon B. Taubman and John W. Corcoran*. Western Reserve University School of Medicine, Cleveland, Ohio.</td>
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<tr>
<td>10:06</td>
<td>190. Some Problems of the Immediate Action of Colicines on Sensitive Bacteria. Jan Smarda. Medical Faculty, Purkyne University, Brno, Czechoslovakia.</td>
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<td>11:06</td>
<td>195. Neisseria genorrhoeae Susceptibility to 11 Antimicrobial Agents. John E. Martin, Jr., James, D. Thayer, Sally B. Samuels* and James B. Lucas. Venereal Disease Research Laboratory, Communicable Disease Center, Atlanta, Ga.</td>
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Program

Session 29

Thursday Morning: Cancer

Executive Room. 8:30 AM
Conveners: D.A. Karnofsky, Sloan-Kettering Institute; D.P. Rall, National Cancer Institute.


9:54 204. Leukemoid Reaction Induced by Bordetellapertussis Vaccine: a Model for Lympholytic Chemotherapy. D. Cooney*, S. Eckhardt and A. Goldin. National Cancer Institute, Bethesda, Md.

10:06 205. Influence of Chemotherapy on the Progress and Survival Rate in Multiple Myeloma. H. Gerhartz*, P. Obrecht and C. Ramsbott. I. Me-zinische Klinik of the Freie Universität Berlin, and Medical Clinic of the University of Freiburg, Germany.


Program 299


Session 30
Thursday Afternoon: Symposium on Cancer Chemotherapy
Palladian Room, 1:30 PM
Convener: C. Heidelberger, University of Wisconsin.
Antitumor Antibiotics and Their Activity, with Special Reference to Phleo-mycin and Ecomycin.
H. Umezawa. Institute of Microbial Chemistry, Tokyo, Japan.
New Alkylating Agents in Cancer Chemotherapy. L. Larionov. Institute of Experimental and Clinical Oncology, Moscow, USSR.
Immunological Approaches to Host-Tumor Interactions. M. Feldman, Weizmann Institutes, Rehovoth, Israel.
Pharmacology and Cancer Chemotherapy. David P. Rall. National Cancer Institute, Bethesda, Md.
Sessions 31 and 32
Thursday Afternoon: Chemotherapy of Veneral Diseases (Round Table) Diplomat Room, 1:30 PM
The world-wide resurgence of both syphilis and gonorrhoea has imposed a need to intensify the efforts of many disciplines if control of the venereal disease problem is to be achieved. In the United States these diseases have reached an incidence of alarming proportion. Estimates indicate that 120,000 persons contract syphilis and more than one million contact gonorrhoea annually. The members of the round table will attempt to answer questions dealing with current problems in venerology. Special emphasis will be placed on the effectiveness of chemotherapeutic agents as they are related to untoward side effects; drug of choice and alternates for therapy and ‘epi-treatment’; failure of current antibiotics to effect cure in ‘resistant gonorrhoea’ and in ‘untreated late syphilis’. The latest laboratory diagnostic procedures for syphilis and gonorrhoea will be described.
Participants:
J.D. Thayer, Communicable Disease Center, Atlanta, Ga.; W. E. Deacon, Communicable Disease Center, Atlanta, Ga. A.D. Schroeter, Communicable Disease Center, Atlanta, Ga.; R.R. Wilcox, St. Mary’s Hospital, London, England; M.B. Moore, Lakeland, Fla.
300 Program
In Vitro Studies II
3:00 135. In vitro Susceptibility of UCIs Staphylococci. Henry D. Isenberg. The Long Island Jewish Hospital, New Hyde Park, N.Y.

4:00 140. Cephalosporinase and Penicillinase Activity of Bacillus cereus. L. D. Sabath* and E.P. Abraham. Sir William Dunn School of Pathology, University of Oxford, England.


Session 33

Thursday Afternoon: Antiviral Agents

Tudor Room, 1:30 PM

Conveners: R.M. Chanock, National Institutes of Health; D. J. Bauer, Wellcome Laboratories of Tropical Medicine, London, England.


Program 301


Session 34
Thursday Afternoon: Pharmacokinetics and Pharmacology
Executive Room, 1:30 PM
Conveners: E. Nelson, State University of New York, Buffalo; P. Malek, Institute for Clinical and Experimental Surgery, Prague, Czechoslovakia.


1:42 233. Pharmacokinetics of Pharmacological Effects. Gerhard Levy* State University of New York at Buffalo, Buffalo, N.Y.


Program

2:18 236. Enteral Absorption on Incomplete Soluble Sulfonamides — An Example of Application of Dost’s Method of the Corresponding Areas. F.H. Dost* and E. Gladtke. Univ.-Kinderklinik, Giessen, Germany.


2:54 239. Pharmacokinetic Models Regarding Protein Binding of Drugs. E. Kruger-Thiemer*, W. Diller and P. Bunger, Borstel Research Institute, Borstel, Germany, and General Hospital Heldberg, Hamburg-Langenhorn, Germany.

3:06 240. Competition Between Sulfonamides and Tetracyclines on the Binding with Serum Proteins. E. Genazzani*, L. J. Bononi and A. Mollo. Institute of Pharmacology, Faculty of Medicine and Surgery, Naples University, Naples, and Institute of Microbiology of the University of Rome, Rome, Italy.

241. Reactive Groups of the Serum Proteins Responsible for the Binding with 6-Methylenoxytetracycline. L. J. Bononi*, G. Pagnini and E. Genazzani. Institute of Microbiology of the University of Rome, Rome, and Pharmacology Institute, Faculty of Medicine and Surgery, Naples University, Naples, Italy.


3:54 245. Cerebrospinal Fluid in Bacterial Meningitis: Ampicillin Levels in Relation to Inflammatory Response and Clinical Result. L.D. Thrupp*, D. Ivler, J.M. Leedom, A.W. Mathies, B. Portnoy and P.F. Wehrle, Los Angeles, County Hospital, and University of Southern California, Los Angeles.


Program 303

Session 35

Thursday Afternoon: Ecological Roles of Antibiotics {Informal Discussion)

Club Room B Convener: T. D. Brock, Indiana University.

Microbial ecology deals with the distribution and functions of microorganisms in their natural environments, including such habitats as the soil, water, and animal body. The rational search for new antibiotics is dependent greatly on an understanding of the ecology of antibiotics and of their roles in nature. This involves an understanding of the kinds of organisms which produce antibiotics, where they are found, and what genetic, biochemical, and physiological processes control the production of antibiotics in nature. In addition, the use of antibiotics in therapy involves their use against mixed cultures and in infected organisms in which the principles of ecology are relevant. Finally, the development of antibiotic-resistant strains in vivo, and their transmission, should be analyzed ecologically. This conference will bring together interested workers to discuss on an informal basis the problems and possibilities for work in their field.

Read by Title


Lincomycin Therapy in Chronic Middle Ear Infections. John C. Trakas and Howard E. Lind. Sias Laboratories, Brooks Hospital, Brookline, Mass.


Effects of Antibiotics Administration on the Pancreas. Yukio Goto and Minoru Fujimoto. Nagoya City University and Nogoya University, Nagoya, Japan.


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Program

Protein Anabolic Steroids and Infectious Diseases. P. Tolentino. University of Genova, Genoa, Italy.

Effect of Penicillin on a Microorganism Lacking a Cell Wall. D.N. Wright. Naval Biological Laboratory, Naval Supply Center, Oakland, Calif.


In vitro Comparison of Cephaloridine and Cephalothin. Marvin Turck and Robert G. Petersdorf. University of Washington and King County Hospital, Seattle.


Cloxacillin in Streptococcal Pharyngitis. Maxwell Stillerman, Henry D. Isenberg and Stanley H. Bernstein. Long Island Jewish Hospital, New Hyde Park, N.Y.

Level of Tetracycline-L-Methylenelysin in the Gall. Stefan Greif. Landes-krankenhaus, Graz, Austria.

Anticryptococcal Serum Factors in Experimental Liver Disease. Hans H. Gadebusch. Veterans Administration Hospital, and the University of Michigan, Ann Arbor.


Colistin, a Profile of Its Mode of Action. Junich Kawamata and Kunihiro Nakajima. Research Institute for Microbial Diseases, Osaka University, Osaka, Japan.

Clinical Evaluation of Sulfalene (Kelfizina) in 100 Patients. Harry Shubin. Broad Street Hospital and Medical Center and Wolfe Hospital, Philadelphia Pa.

Evaluation of Sodium Nafcillin in the Treatment of Commonly Encountered Pediatric Infections. Lester Nathan. Skokie, III.

273. **Bacteriuria and Urinary Track Infections Among Ambulatory, Elderly Patients.** Thomas, W. Mou. State University of New York, Upstate Medical Center, Syracuse, N.Y.

Clinical Experience with Cephaloridine, Including Report of a Fatality Associated with Its Administration in Massive Dosage. Alan R. Hinman and Emanuel Wolinsky. Metropolitan General Hospital and Western Reserve University School of Medicine, Cleveland, Ohio.


Program 305

Comparison of Bile Broth and Trypticase Soy Broth as Blood Culture Media in Salmonella Bacteremia. D. Kaye, M. Palmieri, H. Rocha and E.W. Hook. Cornell University Medical College, New York, N.Y., and University of Bahia Medical School, Salvador, Brazil.


Cytotoxicity of Penicillins and Cephalosporins. T.-W. Chang and Louis Weinstein. New England Medical Center Hospitals, and Tufts University School of Medicine, Boston, Mass.


Significance of Persistent Bacteremia in the Diagnosis of Bacterial Endocarditis. Armin Rembe and Ralph Tompsett. Baylor University Medical Center, Dallas, Tex.

Insignificance of Gram-Positive Bacterial Contamination in Detection of Significant Bacteriuria. M.J. Snyder, M.M. Henderson, and C.L. Ewing. University of Maryland School of Medicine, and Baltimore City Health Department Baltimore, Md.


285. **Grouping of Gram-Negative Bacilli and Susceptibility to Antimicrobial Agents.** Paul D. Hoeprich, Fumi Watanabe and Richard H. PaRKER. University of Utah College of Medicine, Salt Lake City.

* Indicates person giving paper.

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Program

**Future Meetings**

Annual Meetings of the Society

Los Angeles, Calif., 1-5 May. Abstract forms will be mailed with the November 1965 ASM News. Abstracts are due on or before Wednesday, 5 January 1966.

New York, N.Y., 29 April-4 May.

Detroit, Mich., 5-9 May.

Miami Beach, Fla., 4-8 May.

Boston, Mass.
Interscience Conference on Antimicrobial Agents and Chemotherapy
Philadelphia, Pa., 26-28 October. Chairman: David Perlman, Squibb Institute for Medical Research, New Brunswick, N.J.
Chicago, Ill., 25-27 October.

Publication
The papers presented at this Congress will be submitted for publication in Antimicrobial Agents and Chemotherapy, 1965, which will be published within a few months. The list price of the book will be $15. Each registrant who pays the $25 registration fee will receive one complimentary copy upon publication.