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PROGRAM

INTERNATIONAL CONFERENCE ON RECOMBINANT DNA MOLECULES

Asilomar Conference Center, Pacific Grove, California February 24-27, 1975

Sponsored by the U.S. National Academy of Sciences with financial support from the National Cancer Institute of the National Institutes of Health, and the National Science Foundation.

MONDAY  
FEBRUARY 24, 1975

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TIME	SUBJECT	SPEAKER
8:30	Introduction: History, Aim of Meeting, Outline of Task	D. Baltimore (MIT - USA)
8:50	Assessment of present technology, joining methods and vectors	P. Berg (Stanford - USA)
9:10	<u>Ecology of Plasmids and Enteric Organisms</u>	
	Ubiquity of organisms, natural history, plasmid ecology and introduction to normal bowel flora	S. Falkow (U. Washington - USA)
	General problem of Salmonella infection in man and domestic animals and the use and misuse of antibiotics in medicine and agriculture, enhancement of R plasmid emergence	E. Anderson (Colindale - UK)
	Plasmids which contribute to virulence or colonization of enteric species	H. Williams-Smith (Houghton Poultry Station - UK)
10:00	Coffee Break	
	Gene transfer <u>in vivo</u> of both enteric organisms and <u>Staphylococcus</u>	M. Richmond (Bristol - UK)
	Panel discussion on ecology and potential dissemination of <u>E. Coli</u> strains	S. Falkow (Chairman)
12:00	Lunch	
1:00	A Public Policy Perspective	H. Green (The George Washington Univ. National Law Ctr.)

Monday, February 24, 1975 cont.

TIME	SUBJECT	SPEAKER
4:30	Molecular biology of bacterial plasmids	R. Novick (Pub. Health Res. Inst. - USA)
	Molecular biology of bacterial conjugation and conjugative mobilization of plasmid and other DNAs	R. Curtiss (U. Alabama - USA)
	Phenotypic expression of plasmids in bacteria	J. Davies (U. Wisconsin - USA)
	Some features of DNA uptake by bacteria	M. Fox (MIT - USA)
6:00	Dinner	
7:30	Genetics and biochemistry of DNA restriction	H. Boyer (U. Calif., San Francisco - USA)
	Molecular cloning of DNA as a tool for the study of plasmid and eukaryotic biology	S. Cohen (Stanford Univ. - USA)
	Development of bacteriophage systems as cloning vehicles	K. Murray (U. Edinburgh - UK)

TUESDAY  
FEBRUARY 25, 1975

8:30	Panel discussion on experimental guidelines for novel recombinant prokaryotes	R. Novick (Chairman) (Pub. Health. Res. Inst. - USA)
12:00	Lunch	
4:30	<u>Plasmid-viral DNA Recombinants</u>	
	Design, construction and value of new kinds of molecules using SV40 (deletion mutants, transducing viruses, plasmid-viral gene recombinants)	D. Nathans (Johns Hopkins Univ. - USA)
	"Natural history of viruses"; especially, are viral genes attached to plasmids a special case?	J. Sambrook (Cold Spring Harbor Lab-USA)
	Adeno-SV40 hybrid DNAs as a case history; including: a) NIH distribution policy, b) conditions required for use in lab, c) results of risk assessment experiments.	A. Lewis (NIH - USA)

Tuesday, February 25, 1975 cont.

TIME	SUBJECT	SPEAKER
6:00	Dinner	
7:30	Comparison of SV40 and human papova viruses: pathogenicity, (cross reactivity and oncogenicity)	D. Walker (U. Wisconsin - USA)
	Infectivity and transforming capacity of SV40 + SV40 DNA; use of recombinant DNAs to infect bacteria vs. mammalian cells	D. Jackson (U. Michigan - USA)
	Isolation and study of Rous sarcoma proviral DNA presence of "virogenes" in "normal" cells	M. Bishop (U. Calif., San Francisco-USA)
	Possible experiments with herpesviruses DNA fragments	B. Roizman (U. Chicago - USA)
	Panel discussion on guidelines for virus-plasmid recombinants	A. Shatkin (Chairman)
<p>WEDNESDAY FEBRUARY 26, 1975</p>		
8:30	<u>Plasmid-cell DNA Recombinants</u>	
	What has already been done in linking cell and plasmid DNAs	D. Hogness (Stanford - USA) D. Brown (Carnegie Inst.-US D. Carroll(Carnegie Inst.-USA)
10:00	Coffee Break	
	Major problems which can be solved by making cell DNA-plasmid-cell DNA recombinant	S. Brenner (MRC - UK), P. Day (Conn. Ag. Exp. Station - USA), R. Valentine (U. Calif., San Diego - USA)
12:00	Lunch	
4:30	Panel discussion of guidelines for plasmid-cell DNA recombinant experiments.	D. Brown (Chairman)
6:00	Dinner	
7:30	Brief analysis of responsibility of research scientists and of risk balancing. With touch on ethical issues insofar as responsibility is concerned, and focus on the several components involved in balancing the risks and benefits of creating recombinant DNA molecules	D. Singer (Fried, Frank, Harris, Shriver and Kampelman, Washington, D.C.; Hastings Inst. of Society, Ethics and the Life Sciences-USA)

Wednesday, February 26, 1975

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TIME	SUBJECT	SPEAKER
	Legal liability of investigators and institutions in the event of proximate or remote injury arising out of work with recombinant DNAs. Applicability of Occupational Health and Safety Act. Informed consent, insurance and indemnity.	R. Dworkin (Indiana Univ. - USA)
	Institutionalization of current and future experimental guidelines, role of NIH Advisory Committee, international co-ordination of policies of different nations.	A. Capron (U. Penn. Law Sch. - USA)

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THURSDAY  
FEBRUARY 27, 1975

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8:30	Discussion and adoption of conference statement
12:00	Ajournment