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# COMPUTATIONAL BIOLOGY IN THE NEXT DECADE

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THE ROCKEFELLER UNIVERSITY PRESENTS

A SERIES OF LECTURES BY DR. SYDNEY BRENNER

# Computational Biology in the Next Decade

**Dr. Sydney Brenner**

Distinguished Professor, The Salk Institute, La Jolla, California

<b>DATE:</b>	<b>April 3, 2001</b>	<b>12:00 p.m.</b>	<b>PLACE:</b>	<b>Caspary Auditorium</b>
	<b>April 4</b>	<b>11:00 a.m.</b>		<b>The Rockefeller University</b>
	<b>April 5</b>	<b>12:00 p.m.</b>		<b>York Avenue at East 66th Street</b>
				<b>New York City</b>

**DROWNING IN A SEA OF DATA AND STARVING FOR KNOWLEDGE**

Tuesday, April 3, 2001, 12:00 p.m. - 1:00 p.m.

**DOES *E. COLI* UNDERSTAND ITSELF?**

Wednesday, April 4, 2001, 11:00 a.m. - 12:00 p.m.

**RECONSTRUCTING THE PAST**

Thursday, April 5, 2001, 12:00 p.m. - 1:00 p.m.

Sydney Brenner was born in South Africa and educated at the University of Witwatersrand, Johannesburg (Medicine and Science). He went to Oxford and received a degree of D.Phil. in 1952, working in the Physical Chemistry Laboratory. After a brief return to South Africa, he joined the Medical Research Council (MRC) Unit in the Cavendish Laboratory in Cambridge in 1956 and went on to serve as director of that lab's successor, the MRC Laboratory of Molecular Biology in Cambridge, from 1979 to 1987. In 1987, he became director of the MRC Unit of Molecular Genetics, retiring in 1992 from the MRC. In 1996 Dr. Brenner founded the Molecular Sciences Institute in Berkeley, California. He now is Distinguished Professor at The Salk Institute in La Jolla, California.

Dr. Brenner's early research was in molecular genetics, working with bacteriophages and bacteria; he discovered messenger RNA (with François Jacob and Matthew Meselson) and, with Francis Crick, showed that the code was composed of triplets. In the 1960s he changed direction and initiated his research on *C. elegans*, establishing it as a powerful experimental system for the analysis of complex biological processes. As a geneticist, he saw that the techniques of cloning and sequencing would open up new ways of approaching genetics. He turned to studying vertebrate genomics and has established the pufferfish genome as a powerful tool in genome analysis.

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