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## Highlights of Hildegard Lamfrom's Scientific Career

### *Higher Education*

- Reed College, B.A., 1943
- Oregon State University, M.A., 1944
- Western Reserve (now Case Western Reserve University), Ph.D., 1949

### *Collaborators Who Became Nobel Prize Winners*

Linus Pauling  
Christian Anfinsen (late 1950s)  
Max Delbruck (1969)  
Howard Temin (1975)  
Renato Delbecco (1975)  
Leland Hartwell (2001)  
James Watson (1962)  
Francis Crick (1962)  
Sydney Brenner (2002)  
Tim Hunt (2001)  
Richard Feynman (1960s)

### *Professional Affiliations and Collaborators (Nobel laureates in **boldface**)*

Institute for Medical Research, Cedars of Lebanon Hospital, Los Angeles

Biochemistry Department, The City of Hope Medical Center, Duarte, CA  
*Collaborated concurrently with biologists at the California Institute of Technology, Pasadena, on landmark research in protein synthesis.*

Chemistry Department, Carlsberg Laboratory, Copenhagen, Denmark.  
*On a fellowship funded by the American Heart Association, Dr. Lamfrom worked with noted biochemist K. Linderstrom-Lang at the Carlsberg Lab at the same time as several noted researchers were doing landmark work in RNA, including Nobel laureate **Christian B. Anfinsen**.*

Division of Biology, California Institute of Technology, Pasadena, California  
*Served as a research fellow and graduate student coach in laboratory of Henry Borsook from 1958 to 1962, during the departmental leadership of **Linus Pauling**. In addition to Pauling, other Nobel laureates she worked with or mentored during this period include **Max Delbruck** (Nobel, 1969), **Howard Temin** (Nobel, 1975), **Renato Delbecco** (Nobel 1975), **Leland Hartwell** (Nobel, 2001, currently at UW's Fred Hutchison Cancer Center), and Alfred Gierer (currently head of Max Planck Institute). Future Nobel laureate **James Watson** was active at Cal Tech during this period, and it is likely that they interacted. Watson cites a Lamfrom published study in his 1962 Nobel address. During this period, she*



*also engaged in an unsuccessful cross-disciplinary collaboration with Nobel-winning physicist **Richard Feynman**, which we memorably recounts in his book, “Surely You’re Joking, Mr. Feynman.”*

Medical Research Council Laboratory for Molecular Biology, Cambridge, England

*Served as special research fellow in the laboratory of **Francis Crick** (Nobel, 1962) and **Sydney Brenner** (Nobel, 2002) from 1962 to 1965 during a time of great excitement following Watson and Crick’s discovery in London of DNA’s double-helix structure. She was a collaborator with **Tim Hunt** (Nobel, 2001), who worked in a nearby laboratory and mentioned his work with Dr. Lamfrom in his Nobel address.*

Institute Biologie Physico-Chimique and the Pasteur Institute, Paris, France

*Research fellowship, 1965-1967.*

Institute of Molecular Biology, University of Oregon, Eugene, Oregon

*1967-1970, with close friend and collaborator Anand Sarabhai*

Department of Chemistry, University of California San Diego

*1970s. Worked with Sarabhai and John Abelson on problems of tRNA synthesis. Encountered undergraduate student Brian Druker and helped facilitate his enrollment in UCSD Medical School.*

Biocenter laboratory, Ahmedabad, India

*Established research center with Sarabhai during long stays in India*

Harvard University Medical School

*Collaborated with Tom Benjamin on the role of middle  $t$  antigen in the induction of tumors.*

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*Sources: personal correspondence between John Abelson and Sydney Brenner; Nobel website; “Surely You’re Joking Mr. Feynman”*