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Education and Professional Experience:

Undergraduate: Massachusetts Institute of Technology
Degree: B.S. in Physics, June, 1970
Thesis advisor: Dr. Salvador Luria
Thesis topic: Curing of plasmids from E. coli with ethidium bromide

Graduate school: Stanford University - research conducted at the NIH
Degree: Ph.D. in Biological Sciences, January, 1976
Thesis advisors: Drs. Gary Felsesnfeld (NIH) and Philip Hanawalt (Stanford)
Thesis topic: The organization of histones in chromatin

Postdoctoral: Laboratory of Molecular Biology, NIAMDD, NIH
Tenure: January, 1976-March, 1977
Research advisor: Dr. Gary Felsesnfeld
Research topic: Nuclease cleavage sites in chromatin

Postdoctoral: Embryology Department, Carnegie Institution, Baltimore, MD
Tenure: April, 1977-December, 1979
Research advisor: Dr. Ronald H. Reeder
Research topic: Ribosomal RNA transcription initiation site analysis

Positions held: Biological Chemistry Department, JHU SoM, Baltimore, MD
Assistant professor: January, 1980 - March, 1984
Associate professor: March, 1984 - August, 1988
Professor: August 1988 - present
Joint appointment: Biology Dept., JUH School of Arts and Science; May 1992 -
Research areas: Eukaryotic gene expression: rDNA transcription; rRNA processing
RNA editing in trypanosomatids; nuclear DNA localization

Honors and Memberships:

NSF predoctoral fellowship: 1970-1973
NIH staff fellowship: 1976-1977
ACS and NIH postdoctoral fellowships: 1977 and 1977 - 1979
NIH Molecular Biology Study Section: 1986 - 1989
NIH Study Section Reviewers' Reserve: 1989 - 1993
American Cancer Society Scientific Review Council: 1995-1998
Ad Hoc reviewer on numerous NIH, ACS, and NSF Study Sections 1985 - present
Editorial boards: Critical Reviews in Eukaryotic Gene Expression: 1987 -
Nucleic Acids Research: 1986-1991; Molecular and Cellular Biology: 1987 - 1989
Editor of Molecular and Cellular Biology: 1990 - 1993
Organizer: CSH Ribosome Synthesis Meeting: 1991, 1994
Organizer: Woods Hole Parasitology Meeting: 1993; 1994
Session Organizer at meetings including: RNA Processing Meeting: 1995, 1997, 1998, 1999
Parasitology Meeting 1995, 1997, 1998; GRC RNA Editing Meeting: 2001
Speaker at numerous GRC, Keystone, CSH etc. meetings: 1975 - present

Civic Involvement:

Member several environmental and planning groups, including: Commission 2000; C-SICC;
Environmental Advisory Committee (WSSC); MICC; Laurel Quad-County Assn;
SHA's Rts 28/198 focus group.
Vice President, West Laurel Civic Association: 1995 - present

Publications:

1. Sollner, B. (1970) Effects of ethidium bromide on plasmids of E. coli K-12. Microbial Genetics

Bull. (Oak Ridge Natl. Labs) 32, 16.

2. Axel, R., Melchior, W., Sollner-Webb, B. and Felsenfeld, G. (1974) Specific sites of interaction between histones and DNA in chromatin. Proc. Natl. Acad. Sci., USA 71, 4104-4105.

3. Felsenfeld, G., Axel, R., Cedar, H. and Sollner-Webb, B. (1975) The specific template activity of chromatin. In "Ciba Found. Symp. The Structure and Function of Chromatin" 28, 29-41.

4. Sollner-Webb, B. and Felsenfeld, G. (1975) A comparison of the digestion of nuclei and chromatin by staphylococcal nuclease. Biochemistry 14, 2915- 2920.

5. Sollner-Webb, B. and Felsenfeld, G. (1975) Protein interaction with DNA in chromatin. In "Chromosomal Proteins and Their Role in the Regulation of Gene Expression", Academic Press (G. Stein and L. Kleinsmith, eds.), pp. 213-226.

6. Felsenfeld, G., Sollner-Webb, B., Camerini-Otero, R.D. and Melchior, W. (1976) Organization of proteins in chromatin. In "The Molecular Biology of Hormone Action", Academic Press (I. Papaconstantinou, ed.), pp. 3-13.

7. Camerini-Otero, R.D., Sollner-Webb, B. and Felsenfeld, G. (1976) The organization of DNA and histones in chromatin: evidence for an arginine-rich histone kernel. Cell 8, 333-347.

8. Sollner-Webb, B., Camerini-Otero, R.D. and Felsenfeld, G. (1976) Chromatin structure as probed by nucleases and proteases: evidence for the central role of histones H3 and H4. Cell 9, 179-193.

9. Felsenfeld, G., Camerini-Otero, R.D. and Sollner-Webb, B. (1976) The structure of chromatin and its reconstruction. In "The Molecular Mechanisms in the Control of Gene Expression", Academic Press (D. Nierlich and W. Rutter, eds.), pp. 1-6.

10. Sollner-Webb, B. (1976) Ph.D. Thesis for Stanford University. Organization of histones in nuclei and chromatin.

11. Felsenfeld, G., Sollner-Webb, B. and Camerini-Otero, R.D. (1977) The organization of chromatin proteins. In "The Molecular Biology of the Mammalian Gene Apparatus", Elsevier (P. Ts'o, ed.), pp. 255-263.

12. Felsenfeld, G., Sollner-Webb, B. and Camerini-Otero, R.D. (1977) The role of histone in nucleosome structure. In "The Organization and Expression of the Eukaryotic Genome", Academic Press (E.M. Bradbury and K. Javaherian, ed.), pp. 157-164.

13 Camerini-Otero, R.D., Sollner-Webb, B. and Felsenfeld, G. (1977) The structure of the nucleosome: evidence for an arginine-rich histone kernel. In "Nucleic Acid- Protein Recognition", Academic Press (H. Vogel, ed.), pp. 151-158.

14. Felsenfeld, G., Camerini-Otero, R.D. and Sollner-Webb, B. (1977) Protein-DNA interactions in chromatin. In "International Cell Biology, 1976-1977", (B. Brinkley and K. Porter, eds.), Rockefeller University Press, pp. 467-474.

15. Sollner-Webb, B. and Felsenfeld, G. (1977) Pancreatic DNase cleavage sites in nuclei. Cell 10, 537-547.

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