

**STEVEN E. SCHONFELD, D.D.S., Ph.D.**

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Bayside, CA 95524  
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**CURRICULUM VITAE**

**I. BIOGRAPHIC INFORMATION**

**University Education:**

Certificate (Periodontics), 1983  
University of Southern California  
Los Angeles, CA

Ph.D. (Cellular & Molecular Biology), 1976  
University of Southern California  
Los Angeles, CA

D.D.S., 1973  
New York University  
New York, N.Y.

B.S. (Biology), 1969  
State University of New York  
Stony Brook, N.Y.

**Academic Appointments:**

- 1986 - 1991: Associate Professor and Chairman  
Department of Periodontology  
U.S.C. School of Dentistry
- 1983 - 1986: Associate Professor  
Section of Periodontology  
Department of Surgical Sciences  
U.S.C. School of Dentistry
- 1985 - 1986: Associate Professor  
Section of Microbiology & Immunology  
Department of Basic Sciences  
U.S.C. School of Dentistry
- 1982 - 1985: Associate Professor and Chairman  
Section of Microbiology & Immunology  
Department of Basic Sciences  
U.S.C. School of Dentistry
- 1978 - 1982: Assistant Professor and Chairman  
Section of Microbiology & Immunology  
Department of Basic Sciences  
U.S.C. School of Dentistry
- 1976 - 1978: Assistant Professor  
Department of Microbiology/Immunology  
and Department of Physiology  
U.S.C. School of Dentistry
- 1973 - 1976: Postdoctoral Trainee  
Department of Biochemistry  
U.S.C. School of Dentistry

**PRIVATE PRACTICE:**

Practice Limited to Periodontics and Dental Implant Surgery  
Huntington Beach, California 1985-1991  
Eureka, California 1991-2012 (retired 2012)

**Honors, Awards, Fellowships:**

Waldemar Foundation Award, 1965  
N.Y. State Regents College Scholarship, 1965-1969  
N.Y. State Regents Dental School Scholarship, 1969-1973  
A.D.A. Student Table Clinic Competition (Third Award), 1972  
Edward H. Hatton Award of the International Association for  
Dental Research (First Place, Postdoctoral), 1975

**Honors, Awards, continued:**

Sigma Xi, 1976  
Omicron Kappa Upsilon, 1980  
Scientific Sponsorship Award (Edward Hatton Awards) of the  
International Association for Dental Research, 1980  
Pierre Fauchard Academy, 1988  
American College of Dentists, 1998

**Professional Organizations:**

American Academy of Periodontology  
American Dental Association  
California Dental Association  
California Society of Periodontists  
Humboldt-Del Norte Dental Society

**Board Certification & Licensure:**

State Licensure: New York Dental License (#31281)  
California Dental License (#33213)  
Regional Licensure: Northeast Regional Boards, 1973  
National Licensure: National Boards, 1973

**Military Service:**

1985 - 1992: Major, Dental Corps, Individual Ready Reserve  
1984 - 1985: Commander, 111th Med. Det. (Dental Svc.)  
1983 - 1985: Major, Dental Corps, U.S. Army Reserve  
1978 - 1983: Captain, Dental Corps, U.S. Army Reserve

## BIBLIOGRAPHY:

### Publications in Peer-Reviewed Journals:

1. Demonstration of an Allo-immune Response to Embryonic Enamel Matrix Proteins. S. Schonfeld. J. Dent. Res. 54(C):72-77, 1975
2. Identification of Four Extracellular-Matrix Enamel Proteins During Embryonic Rabbit Tooth Organ Development. H. Guenther, R. Croissant, S. Schonfeld and H. Slavkin. Biochem. J. 163:591-604, 1977
3. Immunogenicity of Two Naturally-Occurring Solid-Phase Enamel Proteins. S. Schonfeld, G. Trump and H. Slavkin. Proc. Soc. Exp. Biol. Med. 115:111-114. 1977
4. Demonstration of Enamel Matrix Proteins on Root-Analogue Surfaces of Rabbit Permanent Incisor Teeth. S. Schonfeld and H. Slavkin. Calif. Tiss. Res. 24:223-229, 1977
5. The Role of Cementogenesis in Periodontal Disease. S. Schonfeld. (Invited Paper) J. Calif. Dent. Assn. 6:53-56, 1978
6. Method for the Cultivation of Dispersed Epithelial Cells from Mouse Palatal Mucosa. S. Piliero, K. Malek, L. Pentel, S. Schonfeld and H. Grob. Ohio J. Sci. 79:73-78, 1979
7. Determination of the Specificity of Plasma Cells for Bacterial Antigens In Situ. S. Schonfeld and J. Kagan. Infect. Immun. 27:947-952, 1980
8. The Preventive Dental Exam Score-Card. S. Schonfeld. J. Dent. Educ. 44:332-333, 1980
9. *In Vitro* and *In Vivo* Autoimmune Response to Enamel Matrix Proteins. S. Schonfeld and S. Herles. Immunology 41:475- 481, 1980
10. Apical Lesions Contain Elevated Immunoglobulin G Levels. A. Greening and S. Schonfeld. J. Endodontics 6:867-869, 1980
11. Complement Fixing Activity in Diseased Human Gingival Tissues. S. Schonfeld, G. Drury and S. Herles. J. Perio. Res. 16:574-581, 1981
12. Specificity of Gingival Plasma Cells for Bacterial Somatic Antigens. S. Schonfeld and J. Kagan. J. Perio. Res. 17:60-69, 1982
13. Endotoxic Activity in Periapical Lesions. S. Schonfeld, A. Greening, D. Glick, A. Frank, J. Simon and S. Herles. Oral Surg. 53:82-87, 1982
14. Potential for Microbiological Cross-Contamination from Dental Casts. R. Leung and S. Schonfeld. J. Pros. Dent. 49:210-211, 1983

### **Publications in Peer-Reviewed Journals, continued:**

15. Basi Razionali per la Cirurgia Mucogengivale: Rassegna della Letteratura. (Rationale for Mucogingival Surgery: A Review of the Literature) S. Schonfeld and L. Checchi. *Dental Cadmos (Italy)* 51:21-26, 1983
16. Demonstration of Immunoglobulins and Complement C3 in the Chronic Inter-Radicular Lesions of Primary Teeth. A. Berryhill, J. Handlers and S. Schonfeld. *Pediatric Dentistry* 5:200-203, 1983
17. Lichen Planus - Rassegna Della Letteratura e Casi Clinici. (Lichen Planus - Review and Clinical Cases) L. Checchi and S. Schonfeld. *Dental Cadmos (Italy)* 51:67-70, 1983
18. Rationale for Mucogingival Surgery: A Critique and Update. A. Farnoosh and S. Schonfeld. *J. Western Soc. Periodon-tology* 31:125-130, 1983
19. Considerazioni Immunologiche Sulla Malattia Parodontale. (Immunological Considerations in Periodontal Disease). S. Schonfeld and L. Checchi. *Mondo Odontostomatologico (Italy)* 4:49-54, 1984
20. Reliability of Intraoral Blood for Diabetes Screening. P. Tsutsui, S. Rich and S. Schonfeld. *J. Oral Med.* 40:62-66, 1985
21. Review of Immunology for the Periodontist. S. Schonfeld and L. Checchi. *J. Western Soc. Periodontology.* 33:53-64, 1985
22. Current Status of Antiplaque Agents. S. Schonfeld (Invited Contribution) *J. Calif. Dent. Assn.* 13:53-57, 1985
23. Synergistic Effect of Two Local Anesthetics Reduces Total Anesthetic Dose - Preliminary Report. L. Checchi, I. Marini and S. Schonfeld. *Eur. J. Dental Anesthesia.* 1:11-14, 1986
24. In Vivo Antiplaque Activity of a Sanguinarine-Containing Dentifrice: Comparison with Conventional Toothpastes. S. Schonfeld, A. Farnoosh and S. Wilson. *J. Perio. Res.* 21:298-303, 1986
25. Orofacial Infections of Odontogenic Origin. S. Schonfeld (Invited Contribution) *J. Calif. Dent. Assn.* 14:49-51, 1986
26. Review of Immunology for the Practicing Dentist. S. Schonfeld (Invited Contribution) *J. Indiana Dent. Assn.* 65:11-18, 1986
27. Demineralized Bone Matrix in the Treatment of Periodontal Defects. M. Yazdi and S. Schonfeld. *J. Western Soc. Periodontology* 35:105-108, 1987
28. A Technique for Esthetic Treatment of Maxillary Anterior Infrabony Lesions. L. Checchi and S. Schonfeld. *Quintessence International* 19:209-213, 1988

### **Publications in Peer-Reviewed Journals, continued:**

29. Buccal Gingival Graft: Maintenance of Phenotype for 15 years. L. Checchi and S. Schonfeld. *J. Periodontol.* 60:163-165, 1989
30. Schonfeld, S. The 1990 Periodontal Symposium - An Overview. *J. Calif. Dent. Assn.* 18:16-20, 1990
31. Slots, J., Rams, T. and Schonfeld, S. In Vitro Activity of Chlorhexidine Against Enteric Rods, Pseudomonads and Acinetobacter from Human Periodontitis. *Oral Microbiology & Immunology* 60:62-64, 1991
32. Yazdi, M., Cheung, D., Cobble, S., Nimni, M. and Schonfeld, S. Effects of Non-Steroidal Anti-Inflammatory Drugs in Demineralized Bone-Induced Bone Formation. *J. Perio. Res.* 27:28-33, 1992
33. Schonfeld, S., Brandes, D., Freckelton, V., Gillis, R., Heisler, W., and Hunt, R. RDA and RDH Retention Surveys. *J. Calif. Dent. Assn.* 24:29-40, 1996
34. S. Schonfeld. Perio Chip (Pharmacology in Dentistry). *Inscriptions (J. Ariz. Dent. Assn.)* 12:21, 1998
35. S. Schonfeld. Using community-based protocols to prevent dental disease in people with special needs: periodontal prevention and intervention. *Special Care in Dentistry* 23:187-188, 2003
36. S. Schonfeld. The art and science of periodontal prognosis. *J. Calif. Dent. Assn.* 36:175-179, 2008
37. S. Schonfeld. Effective strategies for managing periodontal inflammation. Submitted to *Journal of the California Dental Assn.*

### **Published Books, Monographs, Chapters:**

1. Enamel Proteins: Identification of Epithelial-Specific Differentiation Products. H. Guenther, R. Croissant, S. Schonfeld and H. Slavkin. In: *Extracellular Matrix Influences in Gene Expression* (H. Slavkin and R. Greulich, Eds.), Academic Press, N.Y. pp 387-397, 1975
2. Epigenetic Regulation of Enamel Proteins Synthesis During Epithelial-Mesenchymal Interactions. H. Slavkin, G. Trump, S. Schonfeld, A. Brownell, N. Sorgente and V. Lee-Own. In: *Cell Interactions in Development* (L. Saxen and L. Weiss, Eds.), Academic Press, London, pp. 209-226, 1978
3. Immunogenicity of Enamel Protein. S. Schonfeld. In: *Proceedings of the Third International Symposium on Tooth Enamel* (J. Termine and M. Nylen, Eds.), *J. Dent. Res. (Suppl.)*, pp. 810-816, 1979
4. Sequestered Antigens in Enamel Matrix Protein. S. Schonfeld In: *Oral Immunogenetics and Tissue Transplantation* (G. Riviere and W. Hildemann, Eds.), Elsevier-North Holland, New York, pp. 133-143, 1982

### **Chapters, continued:**

5. Host Response: Inflammation. J. Suzuki, H. Creamer, S. Schonfeld and E. Montgomery. In: Periodontics (D. Grant, I. Stern and M. Listgarten, Eds.), C. V. Mosby, St. Louis, pp. 252-265, 1987
6. Immunology of Periodontal Diseases. J. Suzuki, H. Creamer, S. Schonfeld and E. Montgomery. In: Periodontics (D. Grant, I. Stern and M. Listgarten, Eds.), C. V. Mosby, St. Louis, pp. 266-292, 1987
7. Slots, J. and S. Schonfeld. Actinobacillus actinomycetemcomitans in Localized Juvenile Periodontitis. in: Periodontal Disease: Pathogens & Host Immune Responses (S. Hamada, S.C. Holt and J.R. McGhee, eds.), pp 53-64. Quintessence Publishing Co., Tokyo 1991
8. Schonfeld, S. The Oral Environment. In: Oral Microbiology (J. Slots, M. Taubman and S. Yankell, Eds.), pp. 267-274 C. V. Mosby, St. Louis, 1992
9. Schonfeld, S. Eziologia e patogenesi delle parodontopatie (Etiology and Pathogenesis of Periodontal Disease). In: Testo Atlante di Chirugiologia Parodontale (L. Checchi, Ed.), pp. 1-10 Editrice Saccardin-Martina, Bologna, 1992

### **Published Abstracts:**

1. Tissue Culture of Palatal Mucosa of the Mouse. S. Schonfeld, L. Pentel, S. Piliero and H. Grob. I.A.D.R. Program and Abstracts, pp. 128, March 1972
2. Demonstration of an Autoantibody Response to Tooth Epithelial-Specific Matrix Proteins. S. Schonfeld. J. Dent. Res. 54(A):L35, 1975
3. Functional Significance of Hertwig's Epithelial Root Sheath. S. Schonfeld, G. Trump, H. Guenther and H. Slavkin. J. Dent. Res. 55(B):218, 1976
4. Enamel Matrix Proteins as Sequestered Autoantigens. S. Schonfeld, G. Trump and J. Chrispens. Gerontological Society Program and Abstracts, 1976
5. Primary In Vitro Autoimmune Response to Enamel Proteins. S. Schonfeld, G. Trump and H. Slavkin. J. Dent. Res. 56(A):58, 1977
6. Complement Consumption by Hydroxyapatite. S. Schonfeld. J. Dent. Res. 57(A):217, 1978
7. A Method for the Determination of the Bacterial Specificity of Lymphocytes In Situ. S. Schonfeld and J. Kagan. J. Dent. Res. 58(A):218, 1979
8. Thymic Dependency of the Autoimmune Response to Enamel Matrix Protein. S. Schonfeld. J. Dent. Res. 59(A):460, 1980

**Abstracts, continued:**

9. Quantitation of IgG Levels in Periapical Granulomas. A. Greening and S. Schonfeld. *J. Dent. Res.* 59(A):424, 1980
10. Local Immunity to *Bacteroides melaninogenicus* in Periodontal Disease. J. Kagan and S. Schonfeld. *J. Dent. Res.* 59(A): 471, 1980
11. Enamel Proteins Associated with Mouse Molar Roots and Human Epithelial Rests. S. Schonfeld and S. Herles. *J. Dent. Res.* 59(A):471, 1980
12. Gingival Humoral Immunity in Periodontitis. S. Schonfeld and J. Kagan. *J. Dent. Res.* 60(A):497, 1981
13. Influence of Local Factors on the Gingival Plasma Cell Response to *Bacteroides gingivalis*. S. Schonfeld, S. Herles and G. Drury. *J. Dent. Res.* 61:219, 1982
14. Presence of *B. gingivalis* in Plaque Elicits Specific Gingival Antibody Forming Cells. S. Schonfeld and M. Newman. *J. Dent. Res.* 62:212, 1983
15. Use of Periodontal Sulcular Blood for Diabetes Screening. P. Tsutsui, S. Rich and S. Schonfeld. *J. Dent. Res.* 63:249, 1984
16. Macrophage-Macrophage Interactions in Subgingival Plaque. C. Joseph and S. Schonfeld. *J. Dent. Res.* 63:310, 1984
17. In Vivo Antiplaque Activity of a Sanguinarine-Containing Dentifrice: Comparison with Conventional Toothpastes. S. Schonfeld, A. Farnoush and S. Wilson. *J. Dent. Res.* 64:360, 1985
18. Synergistic Effect to Two Local Anesthetics Reduces Total Anesthetic Dose. Preliminary Report. L. Checchi, I Marini and S. Schonfeld. Program & Abstracts, p. 17, Fourth International Dental Congress on Modern Pain Control. Bologna, Italy. September 18-20, 1985
19. Intrinsic Labelling of Endotoxin in Studies of Endotoxin- Root Associations. S. Schonfeld and C. Joseph. *J. Dent. Res.* 65:308, 1986
20. Effects of Two Toothbrushes on Plaque, Gingivitis and Gingival Abrasion. S. Wilson, D. Levine, G. DeQuincey, W. Killoy and S. Schonfeld. *J. Dent. Res.* 70:416, 1991

**Dissertations & Theses:**

1. Enamel Proteins: Distribution and Autoimmune Potential of a Sequestered Antigen. S. Schonfeld. Doctoral Dissertation, University of Southern California, Los Angeles, 1976



### **Manuals and Instructional Materials:**

1. Microbiology-Immunology Laboratory Manual. (Laboratory Manual) S. Schonfeld. Los Angeles: Department of Microbiology & Immunology, USC School of Dentistry, 1979
2. Microbial and Immunological Aspects of Periodontal Pathogenesis. (Monograph for student use) S. Schonfeld. Los Angeles: Section of Microbiology & Immunology, USC School of Dentistry, 1978
3. Identification of Subgingival Microflora by Phase Contrast Microscopy (Instructional Videotape). S. Schonfeld and C. Joseph. Washington, D.C.: Dental Education Department, Veterans Administration, 1985
4. Microbiology-Immunology Laboratory Series (Instructional Videotape). S. Schonfeld. Los Angeles: Section of Microbiology & Immunology and Audio-Visual Services, 1986
5. Identification of Subgingival Microflora by Phase Microscopy (Instructional Guide for Videotape). S. Schonfeld and C. Joseph. Chapel Hill: Health Sciences Consortium, 1987

### **GRANTS/CONTRACTS AWARDED:**

- 1990-1991: Interaction of Oral Bacteria with Periodontal Tissues (Co-investigator, Jørgen Slots, P.I.), National Institutes of Health
- 1990-1991: Clinical Evaluation of an Iontophoretic Toothbrush. (Principal Investigator, Clinical Research Contract) U.S. Apatite
- 1989-1991: Long-Term Clinical Evaluation of Inter-Plaque Toothbrush. (Coinvestigator, Clinical Research Contract; S. Wilson, P.I.) Interplaque Div. of Bausch & Lomb Corp.
- 1987-1990: Multicenter Study: Clinical Trial of HTR Polymer in Bone Grafting. (Principal Investigator, Clinical Research Contract) U.S. Surgical Corp.
- 1986-1990: Clinical Evaluation of Biotene Toothpaste. (Co-investigator, Clinical Research Contract; R. Mulligan, P.I.) Laclede Corp.
- 1985-1988: "Project Socrates" (Principal Investigator, Computer Software Development Grant) U.S.C. and I.B.M.
- 1985-1986: Clinical Evaluation of Oxyfresh Mouthrinse. (Co-investigator, Clinical Research Contract; A. Fanroosh, P.I.) Oxyfresh Corp.
- 1978-1983: Local Immunity in Oral Disease. (Principal Investigator, Research Project Grant, R-01-DE- 05088) National Institutes of Health
- 1977-1978: Antigenicity of Enamel Proteins. (Principal Investigator, Research Grant) LAC/USC Medical Center - Professional Staff Association

**Contracts & Grants, continued:**

1975-1977: The Role of Cementogenesis in Periodontal Disease. (Principal Investigator, Research Grant) California Dental Association

**ACTIVITIES IN PROFESSIONAL ORGANIZATIONS:**

American Academy of Periodontology:

ADA Liaison Committee 2003 -2007 (Chair 2007)

State and Regional Assembly Planning Committee 2007 - 2010 (Chair 2010 - present)

Leadership Development and Qualifications Committee 2007 – 2009

Committee to Revise Advanced Program Accreditation Standards 2011 - present

American Dental Association:

Council on Dental Education & Licensure 2002 - 2006 (Vice Chair 2006)

Chairman, Committee G (2005 - 2006)

Delegate to House of Delegates 1999 - 2006

Indicators Consensus Panel 1998

Consulted for Committee on Licensure and Competency 1997 and Competency Subcommittee 1999

California Dental Association:

CDA Foundation, Board Member 2004 - 2005

Trustee 2000-2006

Council on Education & Professional Relations 1993 - 2001 (Chairman 1999 - 2001)

Ad Hoc Committee on Voluntary Continued Competency Assessment 1996-97 (Chairman 1997)

Ad Hoc Issues Committee 1999

California Society of Periodontists:

Director 2002 – 2006

Secretary 2006

Treasurer 2007

President-elect 2008

President 2009

Humboldt-Del Norte Dental Society:

Continuing Education Chairman 1992-present

Secretary-Treasurer, 1993

Vice President, 1994

President, 1995

Past President, 1997