

# **CURRICULUM VITAE**

**Michael B. Imberman**

## **BIOGRAPHIC INFORMATION**

**Office Address:** 18425 Burbank Blvd.  
Suite 709  
Tarzana, CA 91356

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## **UNIVERSITY EDUCATION**

- 1982 Boston University's Goldman School of Dentistry, Boston, MA - Certificate of Advanced Graduate Study, Periodontology.
- 1982 Boston University's Goldman School of Graduate Dentistry, Boston, MA - M.Sc.D. Oral Biology.
- 1978 Boston University's Goldman School of Graduate Dentistry, Boston, MA - DMD
- 1974 Queen's College, City University of New York Flushing, NY - BA Chemistry.

## **ACADEMIC APPOINTMENTS**

- 1993-2000 Associate Clinical Professor, School of Dentistry, University of Southern California.
- 1990-1993 Assistant Clinical Professor, School of Dentistry, University of Southern California.
- 1984-1990 Assistant Professor, Craniofacial Biology School of Dentistry, University of Southern California

1983-1990 Assistant Professor, Periodontology, School of Dentistry, University of Southern California.

#### OTHER PREVIOUS EMPLOYMENT

1984-90 Private Practice, Periodontics  
Sherman Oaks, CA

1982-83 Private practice - Periodontics  
Boston, MA

1979-82 Private practice - General Dentistry  
Brockton, MA

1978-79 General Dentistry - Dental Staff  
Beth Israel Hospital, Boston MA

1978-82 Postdoctoral Fellow, Boston University  
School of Medicine, Department of  
Biochemistry

1975-77 Summer research assistant, Boston University  
School of Medicine

#### AWARDS

1978 Annual Student Award - American Academy of  
Periodontology, Boston University Goldman  
School of Graduate Dentistry

1974 Dean's List, Honors in Chemistry, Chemistry  
Research Award  
Queen's College, City University of New York

#### PROFESSIONAL ORGANIZATIONS

International Association of Dental Research  
American Association of Dental Research  
American Academy of Periodontology  
American Dental Association  
California Dental Association

**San Fernando Valley Dental Society  
California Society of Periodontists  
Western Society of Periodontology  
Alpha Omega Dental Fraternity**

**BOARD CERTIFICATION AND/OR LICENSURE**

**Specialty Certification: Periodontology (Board eligible)**

**State Licensure: California, Massachusetts, New York**

## ADMINISTRATION AND SERVICE ACTIVITIES

### ADMINISTRATIVE APPOINTMENTS

- 1987-1990 Director of Implant Dentistry, Graduate Periodontics, School of Dentistry, University of Southern California
- 1987-1990 Director of Admissions, Graduate Periodontics School of Dentistry, University of Southern California
- 1986-1988 Academic Coordinator, Graduate Periodontics University of Southern California School of Dentistry
- 1984-1986 Coordinator of Doctoral Periodontology University of Southern California School of Dentistry

### COMMITTEE ACTIVITIES

#### School of Dentistry:

- Research Committee, 1984-1985
- Admissions Committee, 1984-1987
- Ethics Committee, 1986-1990  
(Chair, Ethic Committee, 1987-1990)
- Planning Sub-committee  
(PEW National Dental Education Program), 1986-1990
- Faculty Development Committee, 1986-1988
- Graduate Student Evaluation Committee 1987-1990
- Clinical Research Committee 1988-1990

#### University

- School of Dentistry Health Policy Planning Sub-committee on Education, 1987-1988

### ACTIVITIES IN PROFESSIONAL ORGANIZATIONS

- 1987 to 1997 Board of Directors, San Fernando Valley Dental Society
- 1989 to 1998 Ethics Committee, San Fernando Valley Dental Society
- 1990 to present Board of Directors, Alpha Omega Dental Fraternity, San Fernando Valley Chapter

1995 to 1996    President, Alpha Omega Dental  
                  Fraternity, San Fernando Valley Chapter  
1997 to 1998    Chairman, Ethics Committee, San  
                  Fernando Valley Dental Society  
2004 to present    Co-Chairman, Annual Alpha Omega  
                  Nate Styrk Excellence in Education Seminar

## TEACHING ACTIVITIES

### COURSES DEVELOPED AND/OR PRESENTED University of Southern California

#### Course Director

- 1987 to 1989 PERI 502 (spring) - Course Director,  
"Periodontal Diseases and Elements of Therapeutic  
Judgement"; 2 unit, 28 hours lecture course in basic  
theory and principles of periodontal disease.  
Presented annually to second year dental students,  
first year international students, and first year  
dental hygiene students (approximately 200 students  
total). Course Participation: Developed course and  
presented 14 hours of lecture.
- 1987 to 1989 PERI 560a (junior year) - Course Director,  
"Clinical Periodontics"; 1 unit, clinic course for  
third year dental students (approximately 120  
students). Development and implementation of daily  
clinical evaluation mechanisms; development of  
clinical policy and procedures for the operation of  
the periodontal clinic.
- 1984 to 1989 PERI 707 (winter) - Course Director,  
"Biological Basis of Periodontics"; 8 units, seminar  
course for 1st year graduate students in  
Periodontology (5 students). Evaluation of the  
literature dealing with the biology and pathogenesis  
of the various periodontal diseases. I developed this  
course and incorporated an extensive evaluation of the  
current research literature. Course Participation: 42  
hours of seminar.
- 1983 to 1989 PERI 709 (summer) - Course Director,  
"Biochemical Aspects of Periodontal Disease"; 1 unit,  
seminar course for 1st year graduate students in  
Periodontology (5 students). Using the research  
literature, an analysis of the biochemistry,  
metabolism, and nutrition of oral tissues. I  
developed this course and incorporated analysis of the  
current research literature. Course participation:  
14 hours of lecture/seminar.

1984 to 1986 PERI 521 (summer) - Course Director, "Periodontal Surgery"; 2 unit, lecture/lab course presented to 3rd year dental students, 2nd year international students, and 2nd year hygiene students (approx. 200 students). General principles and methods of surgical periodontal treatment. I developed the laboratory phase of the course using typhodonts. Course participation: 6 hours lecture and 14 hours lab.

Course Presenter

1984 to 1989 PERI 560a-b, 761, Clinical instruction of periodontal diagnostic and surgical techniques. A three trimester course for 3rd & 4th year dental students, 1st & 2nd year international students, and 1st & 2nd year graduate students. Course participation: 8-12 hours/week.

1984 to 1985;

1987 to 1989 PERI 521 (summer) - "Periodontal Surgery"; 2 unit, lecture/lab course presented to 3rd year dental students, 2nd year international students, and 2nd year hygiene students (approx. 200 students). General principles and methods of surgical periodontal treatment. I developed the laboratory phase of the course using typhodonts. Course participation: 6 hours lecture and 14 hours lab.

1986 to 1989 PERI 602 (winter) - "Controversies in Periodontics"; 1 unit seminar course presented to 10 selected senior dental students. Seminar/lecture on special topics in periodontics. Course participation: 6 hours lecture.

1986 to 1989 PERI 750 (summer) - "Advanced Periodontal Instrumentation"; 3 unit course in root preparation techniques presented to 1st year graduate students in Periodontology. Developed and presented lectures on periodontal diagnosis. Course participation: 9 hours lecture/seminar.

1984 to 1986 PERI 502 (spring) - "Periodontal Diseases and Elements of Therapeutic Judgement"; 2 unit, 28 hours lecture course in basic theory and principles of

periodontal disease. Presented annually to second year dental students, first year international students, and first year dental hygiene students (approximately 200 students total). Course Participation: Developed course and presented 14 hours of lecture.

#### Courses in Preparation

1988 to 1989 PERI ( ) - "Treatment Planning in Implant Dentistry"; 48 hours seminar course in the use of dental implants in periodontics. A three trimester course presented to 1st & 2nd year graduate students in Periodontology and Prosthodontics (20 students total).

1988 to 1989 PERI ( ) -Literature Review in ImplantDentistry"; hours seminar course in reviewing the Research literature in Implant Dentistry. A three trimester course presented to 1st & 2nd year graduate students in Periodontology (10 students total).

#### CONTINUING EDUCATION PRESENTATIONS

1988 "A New Concept in the Classification and Treatment of Periodontal Disease", USC Century Club, (2 hours).

1988 "New Developments in the Effective Treatment of Periodontal Disease", San Diego, CA, (2 days).

1987 "Complications From Periodontal Surgery", San Fernando Valley Dental Society, zone meeting, (2 hours).

1987 "Newest Concepts in the Classification and Treatment of Periodontal Disease", Western Society of Periodontology, San Diego, CA, (8 hours).

1987 Current Trends in Periodontal Therapy: "The 1980's and Beyond", San Gabriel Valley Dental Hygiene Society, Pasadena, CA, (8 hours).

- 1987 "Myths and Madness in Periodontal Therapy", Southern Arizona Dental Hygienists Society, Tucson, AZ (3 hours).
- 1987 "Myths and Madness in the Diagnosis of Periodontal Disease", Los Angeles Dental Hygiene Society, Santa Monica, CA, (4 hours).
- 1987 "New Concepts in the Classification of Periodontal Disease", Alpha Omega, Studio City, CA, (1 hour)
- 1986 "Juvenile Periodontitis: The Diagnosis and Treatment in General Practice", San Fernando Valley Dental Society zone meeting, Encino, CA, (2 hours).
- 1986 "Juvenile Periodontitis", Humana Hospital, West Hills. Canoga Park, CA, (1 hour).
- 1986 Current Trends in Periodontal Diagnosis: The 1980's and Beyond", California Dental Hygiene Association Mid-Winter Conference, Costa Mesa, CA, (8 hours).
- 1986 "First International Dental Congress", Colegio Dental del Norte de Sinaloa, A.C., Los Mochis, Mexico, (3 days).
- 1985 "The Use of the Periotron and Phase-Contrast Microscope", USC faculty continuing education, (4 hours).

## SCHOLARLY ACTIVITIES

### PUBLICATIONS

#### Peer Review Journals:

Imberman, M. "Gingival Augmentation with Acellular Dermal Matrix Revisited: Development of a Surgical Technique for Gingival Grafting," PPAD 2007 Mar; 19(2):123-8

Schneir, M., Imberman, M., Ramamurthy, N., and Golub, L. "Streptozotocin-induced diabetes and the rat periodontium: decreased relative collagen production." Collagen and Related Research 8:221, 1988

Imberman, M., Ramamurthy, N., Golub, L., and Schneir, M. "A reassessment of collagen turnover in the rat periodontium: application of the pool-expansion approach." J. Perio. Res. 21:396, 1986

Schneir, M., Imberman, M., Golub, L. & Ramamurthy, N., "Dietary ascorbic acid increases collagen production in skin of streptozotocin-induced diabetic rats by normalizing ribosomal efficiency." Annals N.Y. Acad. Sci. 498:514, 1986

Schneir, M., Imberman, M., Ramamurthy, N., and Golub, L. "The in vivo fractional rate of gingival collagen production in non-diabetic and diabetic rats: application of a novel approach for quantification-- pool expansion." J. Perio. Res. 21:56, 1986

Imberman, M. and Wilson, S. "Current trends in periodontal diagnosis." CDA Journal 13:75, 1985

Imberman, M., Oppenheim, F. and Franzblau C. "The appearance of free hydroxyproline as the major product of degradation of newly synthesized collagen in cell culture." Biochim. Biophys. Acta. 719:480, 1982.

Foster, J.A., Mecham, R., Rich C., Cronin, M., Levine, A., Imberman, M. and Salcedo, L.L. "Proelastin--

Synthesis in cultured smooth muscle cells." J. Biol. Chem. 253:2797, 1978.

Foster, J.A., Mecham, R., Imberman, M., Farris, B. and Franzblau, C. "Isolation of a high molecular weight species of soluble elastin--proelastin." Adv. Exp. Med. Biol. 79:351, 1977.

Foster, J.A., Bruenger, E., Rubin, L., Imberman, M. Kagan, H., Mecham, R. and Franzblau, C. "Circular dichroism of an elastin crosslinked peptide." Biopolymers 15:833, 1976.

Abstracts:

Imberman, M., Golub, L., Ramamurthy, N., and Schneir, M. "Diabetes and aging independently reduce ribosomal efficiency for collagen production". J. Dent. Res. 67:163, 1988.

Schneir, M., Imberman, M., Ramamurthy, N., and Golub, L. "Minocycline and ascorbate normalize diabetes-decreased ribosomal efficiency for collagen production". J. Dent. Res. 67:371, 1988.

Imberman, M., Golub, L., Ramamurthy, N., and Schneir, M. "Diabetes decreases collagen production only in tissue with low basal rates". J. Dent. Res. 66:312, 1987.

Schneir, M., Imberman, M., Ramamurthy, N., and Golub, L. "Ribosome amount is unaltered in incisor gingiva of diabetic rats". J. Dent. Res. 66:257, 1987.

Schneir, M., Imberman, M., Ramamurthy, N., and Golub, L. "Dietary ascorbic acid normalizes ribosomal efficiency for collagen production in skin of streptozotocin-induced diabetic rats". Fed. Proc. 46:1990, 1987.

Schneir, M., Imberman, M., Ramamurthy, N. & Golub, L., "Reassessment of collagen half-life in rat periodontal tissues". J. Dent. Res. 65:309, 1986.

Imberman, M., Golub, L., Ramamurthy, N. & Schneir, M., "Ascorbate-enhanced relative collagen production in periodontal tissues of diabetic rat". J. Dent. Res. 65:330, 1986.

Imberman, M., Golub, L., Ramamurthy, N., and Schneir, M. "Measuring collagen production rates in rat gingiva". J. Dent. Res. 64:198, 1985.

Schneir, M., Imberman, M. Ramamurthy, N., and Golub, L. "Dietary ascorbic acid enhances collagen production in skins of diabetic rates:." Fed. Proc. 1062, 1985

Imberman, M., Ramamurthy, N., Golub, L. and Schneir, M. "Rat periodontal ligament procollagen: rapid intracellular synthesis and degradation". J. Dent. Res. 63:189, 1984

Imberman, M., Oppenheim, F. and Franzblau, C. "The appearance of free hydroxyproline in cell culture" J. Dent. Res. 61:274, 1982.

Civerchia-Perez, L., Imberman, M., Ferris, B., Schmidt, K., Lebowitz, H. and Franzblau, C. "Growth of embryonic lung fibroblasts on collagen hydrogels." Fed. Proc. June 1981, Abst. No. 2351

Dissertation:

The Degradation of Collagen in Cell Culture - Boston University 1982.

#### MAJOR PUBLIC PRESENTATIONS

2006 Imberman, M. "Gingival Augmentation with Acellular Dermal Matrix Revisited: Development of a Surgical Technique using Alloderm in Free Gingival Grafting", Biohorizons Global Symposium, Scottsdale, Arizona

1988 Imberman, M., Golub, L., Ramamurthy, N., and Schneir, M. "Diabetes and Aging Independently Reduce Ribosomal Efficiency for Collagen

Production" International Association of  
Dental Research - Montreal. Canada

- 1987 Schneir, M., Imberman, M., Ramamurthy, N., and Golub L.  
"Dietary Ascorbic Acid Normalizes Ribosomal  
Efficiency for Collagen Production in Skin of  
Streptozotocin-Induced Diabetic Rats". American  
Society of Biological Chemists, Philadelphia, PA
- 1986 Imberman, M., Golub, L., Ramamurthy, N. & Schneir, M.,  
"Ascorbate-enhanced relative collagen production  
in periodontal tissues of diabetic rat".  
American Association of Dental Research meeting,  
Washington, D.C.
- 1985 Imberman, M., Golub, L., Ramamurthy, N., and Schneir,  
M.: "Measuring Collagen Production Rates in Rat  
Gingiva". American Association of Dental  
Research Meeting, Las Vegas, Nevada
- 1984 Imberman, M., Ramamurthy, N., Golub, L. and Schneir,  
M.: "Rat Periodontal Ligament Procollagen: Rapid  
Intracellular Synthesis and Degradation".  
International Association of Dental Research  
meeting, Dallas, Texas
- 1982 Imberman, M., Oppenheim, F. and Franzblau, C.: "The  
Appearance of Free Hydroxyproline in Cell  
Culture". International Association of Dental  
Research meeting, New Orleans, LA

## GRANT ACTIVITY

- 1989 Co-Investigator - National Institutes of Health - "Tetracyclines: Normalization of Models of Bone Disease" (Principal Investigator - Lorne Golub, SUNY, Stony Brook - Program Project Grant) Submitted.
- 1988 Co-Principal Investigator - National Institutes of Health - "In Situ Periodontal Collagen Degradation and Diabetes". Schneir, M. & Imberman, M.; Submitted.
- 1988 Co-Principal Investigator - National Institutes of Dental Research - "Abnormal Periodontal Collagen Metabolism: Chemotherapy". Schneir, M. & Imberman, M.; Approved, unfunded.
- 1988 Principal Investigator - Biomedical Research Support Grant, National Institutes of Health, "Chemotherapeutic Efficacy of Minocycline-Treatment for Diabetic Rats - Measurement of Collagenase Digestion: Degradation Products Approach". Imberman, M. & Schneir, M.; Funding, \$2,000
- 1988 Co-Investigator - Biomedical Research Support Grant, National Institutes of Health, "Characterizing the In Situ Role of Collagen-Degrading Lysosomes Isolated From Rat Liver". Schneir, M. & Imberman, M.; Funding \$2,000
- 1987 Co-Principal Investigator - National Institutes of Dental Research, "The Molecular Nature of Gingival and Mucosal Collagen". Schneir, M. and Imberman, M. - Approved, unfunded.
- 1985 Co-Principal Investigator - National Institutes of Dental Research, "The Molecular Nature of Gingival and Mucosal Collagen". Schneir, M. and Imberman, M.; DE03318, Funding - 3 years, \$560,000.
- 1983 Principal Investigator - Biomedical Research Support Grant, NIH. "The Use of the Periotron 6000 in Monitoring the Treatment of Periodontal Disease in Diabetic and Non-Diabetic

Patients; Imberman, M. & Wilson, S.; Funding  
- \$2,000

1980 Principal Investigator - National Research Service  
Award, National Institutes of Health,  
"Intracellular Collagen Degradation" F-32-  
DE05238. Funding - 3 years, \$64,440

**HONORS**

- 1987           Nomination for University Scholar  
University of Southern  
School of Dentistry
- 1986           University of Southern California  
School of Dentistry Omicron Kappa Upsilon  
National Dental Honor Society
- 1985                       Participant in Gordon Research  
Conference on Periodontal Disease, Plymouth  
State College, Plymouth, N.H. Presented  
paper on "A Reassessment of Collagen  
Turnover in the Rat Periodontium".
- 1981           Participant in Gordon Research Conference on  
Periodontal Disease, Colby-Sawyer College,  
New London, N.H. Presented paper on "The  
appearance of free hydroxyproline in  
biological system."