

CURRICULUM VITAE

JEFFREY L. EBERSOLE

February 10, 2003

I. GENERAL INFORMATION:

A. Personal Data:

1. Citizenship Status: U.S.

B. Education:

1975	Ph.D.	Microbiology	University of Pittsburgh School of Dental Medicine, Pittsburgh, Pennsylvania
1971	BS	Biology	Temple University

C. Postgraduate Training:

1975-1977	Staff Associate	Immunology	Forsyth Dental Center, Boston, Massachusetts, Dr. Martin A. Taubman
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D. Academic Appointments:

April 02 – pres.	Associate Dean for Research and Graduate Studies	University of Kentucky, College of Dentistry
Jan 00-April 02	Assistant Dean for Research and Graduate Studies	University of Kentucky, College of Dentistry
Jan 00-pres.	Alvin L. Morris Professor of Oral Health Research, Director, Center for Oral Health Research	University of Kentucky, College of Dentistry
Sep 94-June 00	Professor of Periodontics and Microbiology	The University of Texas Health Science Center at San Antonio, Texas
Nov 85-Sep 94	Associate Professor of Periodontics and Microbiology	The University of Texas Health Science Center at San Antonio, Texas

Jan 85-Present	Research Affiliate	Department of Immunology, The Forsyth Institute, Boston, Massachusetts
Jan 85	Senior Member	Forsyth Dental Center
Jan 84-Nov 85	Associate Clinical Professor of Oral Biology and Pathophysiology	Harvard School of Dental Medicine Boston, Massachusetts
Jan 80-Dec 83	Assistant Clinical Professor of Oral Biology and Pathophysiology	Harvard School of Dental Medicine Boston, Massachusetts
Jul 80-Jan 85	Associate Member	Forsyth Dental Center Boston, Massachusetts
Jul 77-Jun 80	Assistant Member	Forsyth Dental Center Boston, Massachusetts
Sep 71-Sep 75	NIH Predoctoral Trainee, Department of Microbiology	University of Pittsburgh School of Dental Medicine, Pittsburgh, Pennsylvania
Sep 73-Sep 74	Instructor, Department of Microbiology	Community College of Allegheny County Pittsburgh, Pennsylvania

E. Other Employment: None

F. Certification and Licensure: None

G. Honors and Awards:

1975	Special Travel Grant, London, England, International Association of Dental Research
1977	Special Travel Grant, Copenhagen, Denmark, International Association of Dental Research
1979	Special Travel Grant, Tokyo, Japan, International Association of Dental Research
1979-1984	Research Career Development Award, National Institutes of Dental Health

- 1983 Special Travel Grant, Sydney, Australia, International Association of Dental Research
- 1983 Basic Oral Science Research Award, International Association of Dental Research
- 1987 1st place, Prichard Competition, Amer. Assoc. of Periodontology; Student Steven Blanchard, DDS, MS
- 1987 NIH/NIDCR Training Fellowship; Student Laura Jimenez, DS-I
- 1988 2nd place, Orban Competition, Amer. Assoc. of Periodontology; Student Steven Blanchard, DDS, MS
- 1989 1st place Orban Competition, Amer. Assoc. of Periodontology Student Bryan Mealy, DDS, MS
- 1990 NIH/NIDCR Training Fellowship; Student R. Lyn Machen, DS-I
- 1991 1st place, Prichard Competition , Amer. Assoc. of Periodontology; Student Karl Smith, DDS, MS,
- 1991 IADR Fellowship; Student R. Lyn Machen, DS-II
- 1992 NIH/NIDCR Training Fellowship; Student Ellen Hall, DS-I,
- 1992 2nd place Orban Competition, Amer. Assoc. of Periodontology; Student Karl Smith, DDS, MS
- 1992 1st place, Prichard Competition, Amer. Assoc. of Periodontology; Student Dennis Anderson, DDS, MS
- 1993 NIH/NIDCR Training Fellowship; Student Frank Feuille, DS-I
- 1993 2nd place Orban Competition, Amer. Assoc. of Periodontology; Student Dennis Anderson, DDS, MS
- 1993 2nd place, Orban Competition, Amer. Assoc. of Periodontology; Student Anna Dongari, DDS, MS
- 1994 IADR Fellowship; Student Frank Feuille, DS-II
- 1994 IADR Fellowship; Student Richard Hansard, DS-II
- 1996 2nd place, Prichard Competition, Amer. Assoc. of Periodontology; Student Alan Moritz, DDS, MS

1997	1 st place, Hatton Competition, AADR; Student Anna Dongari-Bagtzoglou, DDS, MS, PhD
1998	1 st place, Orban Competition, Amer. Assoc. of Periodontology; Student Alan Moritz, DDS, MS
1999	NIH/NIDR Training Fellowship; Student Erin Shupp, DS-II
1999	NIH/NIDR Training Fellowship; Student Clinton Falk, DS-II
2000	Basic Research in Periodontal Disease Award, International Association for Dental Research

II. TEACHING:

A. Classroom/Laboratory (DS –dental student, MS –medical student, G –graduate, U-undergraduate, R –residents, P –post-doc, C -classroom)

Harvard School of Dental Medicine

1986-present	Graduate Oral Immunology	DS/G	2h/C	Lecturer
1980-1985	Dental Oral Biology	DS/G	8h/C	Lecturer
1976-1985	Graduate Oral Immunology	DS/G	8h/C	Co-Organizer
1977-1978	Dental Oral Biology	DS/G	4h/C	Lecturer

Tufts University Dental School

1978	Graduate Oral Biology	DS/G	4h/C	Lecturer
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Boston University

1978-1985	Graduate Oral Microbiology	DS/G	4h/C	Lecturer
1981-1985	Dental Oral Microbiology	DS/G	4h/C	Lecturer

Forsyth Dental Center

1976-1985	Graduate Oral Biology	DS/G	8h/C	Lecturer
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The University of Texas Health Science Center at San Antonio

1997-2000	Dental Microbiology	DS/U		Immunology Section Leader
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1994-2000	Dental Microbiology	DS/U	4h/C	Lecturer
1994-1999	Ethics in Science	DS,GS/P	3h/C	Lecturer
1994,1997-98	Pediatric Dentistry, Oral Immunology	GS	2h/C	Lecturer
1991-1999	Oral Disease Section, Biomedical Core Course	DS/P	4h/C	Section Leader/ Lecturer
1990-1999	Pathobiology	DS/P	6h/C	Lecturer
1989-1990	Oral Biology/DSA Seminar Series	DS/R, P, G	1h/C	Organizer
1988	Teleconference Network of Texas	DS/R, P, G	2h/C	Lecturer
1988	Graduate AIDS & the Periodontist	DS/R, P, G	2h/C	Lecturer
1987-1999	Periodontics Literature Seminar	DS/P	3h/C	Lecturer
1987-1990	Research Topics in Oral Biology	DS/U	4h/C	Director
1987	Continuing Dental Education Luncheons for Learning Series	DS/R, P, G	1h/C	Lecturer
1986-2000	Freshman Periodontics	DS/U	3-4h/C	Lecturer
1986-1991	Dental Microbiology	DS/U	3h/C	Lecturer
1986-1988	Dental Community Dentistry	DS/U	2h/C	Lecturer
1985-1999	Graduate Periodontics/Oral Immunology	DS/P	6h/C	Lecturer

The University of Kentucky

2000-pres.	Microbiology/Immunology	MS- DS/U	2h/C	Lecturer
2001-pres.	OBI 650/651	DS/G,R	4h/C	Lecturer
2001-pres.	OBI 629	DS/U	4h/C	Lecturer

2002-pres.	skelton????	DS/U	1h/C	Lecturer
2002-pres.	timmins	DS/U	1h/C	Lecturer

B. Clinical Teaching: None

C. Instructional Development: N/A

D. Masters' Theses and Ph.D. Dissertations Directed, Membership on Supervising Committees, and Postdoctoral Fellows Supervised:

Dr. Ebersole has trained 5 pre-doctoral Ph.D. students, 29 post-doctoral M.S. students, 1 M.S. student, 18 D.D.S. students, and has served on 25 thesis committees.

III. RESEARCH:

A. Bibliography:

1. Books and/or chapters:

Taubman, M.A., D.J. Smith, and **J.L. Ebersole**: Conventional and specialized rodent models for studies of immune mechanisms and dental caries. Symposium on Animal Models in Cariology. Ed. J.M. Tanzer, Special Supplement Microbiology Abstracts, p. 439-450, 1981.

Taubman, M.A., D.J. Smith, **J.L. Ebersole**, and J.D. Hillman: Immunological interference with accumulation of cariogenic microorganisms on tooth surfaces. Recent Advances in Mucosal Immunity. Ed. W. Strober, L.A. Hanson and K.W. Sell, Raven Press, New York, p. 359-380, 1981.

Taubman, M.A., **J.L. Ebersole**, and D.J. Smith: Association between systemic and local antibody and periodontal diseases. Host Parasite Interactions in Periodontal Diseases (R.J. Genco and S.E. Mergenhagen, Eds.), American Society of Microbiology, Washington, DC, p. 283-298, 1982.

Taubman, M.A., D.J. Smith, **J.L. Ebersole**, and J.D. Hillman: Protective aspects of immune response to glycosyltransferase in relation to dental caries. In: Chemistry and Biology of Glycosyltransferases. R. Doyle, J. Ciardi Eds. 1983.

Smith, D.J., M.A. Taubman, and **J.L. Ebersole**: Antigen relatedness of glycosyltransferases from *Streptococcus mutans* and *Streptococcus sanguis*. In Chemistry and Biology of Glucosyltransferases. R. Doyle, J. Ciardi Eds., 1983.

Ebersole, J.L., M.A. Taubman, and D.J. Smith: Adjuvants glycosyltransferases and caries vaccine. In: Chemistry and Biology of Glycosyltransferases. R. Doyle, J. Ciardi Eds., 1983.

Taubman, M.A., D.J. Smith, **J.L. Ebersole**, W.E. Stack, T. Tsukada, and M.C. Trocme: Caries immunity and immune response to *Streptococcus mutans* glucosyltransferase. Molecular

- Microbiology and Immunology of *Streptococcus mutans*. Ed. S. Hamada, S.M. Michalek, H. Kiyono, L. Memaker and J.R. McGhee, Elsevier Science Publishers, Amsterdam, p. 279-286, 1986.
- Smith, D.J., L. Gahnberg, M.A. Taubman, and **J.L. Ebersole**: Antibody to streptococcal antigens in young adults and children. Molecular Microbiology and Immunology of *Streptococcus mutans*. Ed. S. Hamada, S.M. Michalek, H. Kiyono, L. Menaker and J.R. McGhee, Elsevier Science Publishers, Amsterdam, p. 287-296, 1986.
- Ebersole, J.L.**, M.A. Taubman, D.J. Smith, and DE. Free: Regulation of salivary SIgA antibody. Molecular Microbiology and Immunology of *Streptococcus mutans*. Ed. S. Hamada, S.M. Michalek, H. Kiyono, L. Menaker and J.R. McGhee, Elsevier Science Publishers, Amsterdam, p. 329-336, 1986.
- Taubman, M.A., E.D. Stoufi, D.J. Smith, and **J.L. Ebersole**: Immunoregulation in Periodontal Disease Tissue. The Borderland Between Dental Caries and Periodontal Disease. Ed. T. Lehner, Grune and Stratten, New York, 1987.
- Ebersole, J.L.**: Host Resistance and Immune Function. Oral Microbiology and Immunology. Ed. R.N. Nisengard and M. Newman, W.B. Saunders Publishing Co., New York, 1988.
- Ebersole, J.L.**: S.C. Holt: Serum antibodies to periodontopathic microorganisms: Specific induction. Periodontology Today. B. Guggenheim (Ed.), S. Karger AG, Basel, Switzerland, pp. 169-177, 1988.
- Ebersole, J.L.**, E. Kraig, G. Bauman, J.K. Spitznagel, D. Kolodrubetz: Molecular approaches to leukotoxin as a virulence component in *A. actinomycetemcomitans*. Borderland Between Caries & Periodontal Disease, 4th European Symposium, Geneva, Switzerland, pp. 28, 1990.
- Ebersole, J.L.**, S.C. Holt, D. Cappelli and L. Kesavalu. Significance of systemic antibody responses in the diagnostic and mechanistic aspects of progressing periodontitis. In: Periodontal Disease Pathogens & Host Immune Responses. Ed: S Hamada, S.C. Holt and J.R. McGhee. Quintessence Publishing Co., Ltd., Tokyo, pp. 343-357, 1991.
- Holt, S.C. and **J.L. Ebersole**: The surface of selected periodontopathic bacteria: Possible role in virulence. In: Periodontal Disease Pathogens & Host Immune Responses. Ed: S Hamada, S.C. Holt and J.R. McGhee. Quintessence Publishing Co., Ltd., Tokyo, Japan, pp. 79-98, 1991.
- Ebersole, J.L.** and S.C. Holt: Immunological procedures for diagnosis and risk assessment in periodontal diseases. In: Periodontal Diseases. Markers of Disease Susceptibility and Activity.. Ed: L Dixon, pp. 203-227 Cambridge University Press, Cambridge, England, pp. 203-227, 1991.
- Ebersole, J.L.**: Immunologic Resistance to Infection. In: Contemporary Oral Microbiology and Immunology. Ed. J. Slots, M.A. Taubman and S.L. Yankell, Mosby, New York, pp. 144-162, 1992.

Ebersole, J.L.: Cells and Tissues of the Immune System. In: Contemporary Oral Microbiology and Immunology. Ed. J. Slots, M.A. Taubman and S.L. Yankell, Mosby, New York, pp. 78-116, 1992.

Ebersole, J.L. Immune responses in periodontal disease. In: Fundamentals in Periodontics. Ed. J.G. Wilson and K.S. Kornman. Quintessence Publishing Co., Ltd, 1996, pp. 109-158.

Ebersole, J.L. Immune responses in periodontal disease. In: Fundamentals in Periodontics. 2nd Edition. Ed. J.G. Wilson and K.S. Kornman. Quintessence Publishing Co., Ltd, 2002, In press.

2. Papers published or in press

- *Molinari, J.A., **J.L. Ebersole**, and D. Platt. 1973. Strain-specific cell-mediated response to polymer-transformed fibroblasts in mice. Arch fur die gesamte Virusforschung. 43:161-164.
- *Molinari, J.A., **J.L. Ebersole**, and D. Platt. 1974. Investigation of secretory immunoglobulins in saliva from germfree mice. Infect. Immun. 10:1207-1212.
- *Cypess, R.H., J.A. Molinari, **J.L. Ebersole**, and A.L. Lubiniecki, 1974. Immunological sequelae of *Trichinella spiralis* infection in mice. II. Potentiation of cell-mediated response to BCG following infection with *Trichinella spiralis*. Infect. Immun. 10:107-110.
- *Molinari, J.A., R.H. Cypess, and **J.L. Ebersole**. 1974. Effect of *Trichinella spiralis* infection on the cell-mediated immune response to BCG. Inter. Arch. Allergy Appl. Immunology. 47:483-487.
- *Molinari, J.A., **J.L. Ebersole**, and D. Platt. 1974. Surface membrane antigens of PY-3T3 mouse fibroblasts. Arch fur die gesamte Virusforschung. 46:229-237.
- ***Ebersole, J.L.**, J.A. Molinari, and D. Platt. 1975. Sequential appearance of salivary antibodies following oral immunization of axenic mice. Infect. Immun. 12:353-359.
- ***Ebersole, J.L.** and J.A. Molinari. 1976. Specificity of secretory antibodies to bacterial immunogens. Infect. Immun. 13:53-62.
- ***Ebersole, J.L.**. 1976. The induction of exocrine antibodies by topical immunization. Ph.D. Thesis. University of Pittsburgh.
- ***Ebersole, J.L.** and J.A. Molinari. 1977. Gastrointestinal antibody responses in axenic mice to topically administered *Escherichia coli*. Infect. Immun. 16:938-946.
- ***Ebersole, J.L.** and J.A. Molinari. 1977. Secretory antibody responses in axenic mice to preorally administered *Staphylococcus aureus*. Immunology 34:379-387.
- *Cypess, R.H., **J.L. Ebersole**, and J.A. Molinari. 1977. Specific antibody levels in the intestinal perfusates of *Heligosomes polygyrus*-infected mice. Inter Arch Allergy Appl. Immunology. 55:496-503.

- *Molinari, J.A. and **J.L. Ebersole**. 1977. *In vitro* responses of spleen cells in *Trichinella spiralis*-infested mice. Inter. Arch Allergy Appl. Immunology. 55:449-457.
- *Molinari, J.A. and **J.L. Ebersole**. 1977. Anti-neoplastic effects of long-term *Trichinella spiralis* infection on B-16 melanoma. Inter Arch Allergy Appl. Immunology. 55:444-448.
- ***Ebersole, J.L.** and J.A. Molinari. 1978. The induction of salivary antibodies by topical sensitization with particulate and soluble bacterial immunogens. Immunology 34:969-979.
- *Molinari, J.A., **J.L. Ebersole** and R.H. Cypess. 1978. Systemic humoral immune responses to *Heligiosomides polygyrus* following oral immunization. J. Parasitol. 64:233-238.
- *Smith, D.J., M.A. Taubman, and **J.L. Ebersole**. 1978. Cross-protective aspects of glycosyltransferase antigens in the hamster caries model. Adv. Exp. Biol. Med. 107:271-281.
- *Smith, D.J., M.A. Taubman, and **J.L. Ebersole**. 1978. Effects of local immunization with glucosyltransferase fractions from *Streptococcus mutans* on dental caries in hamsters caused by homologous and heterologous serotypes of *S. mutans*. Infect. Immun. 21:843-851.
- *Taubman, M.A., D.J. Smith, and **J.L. Ebersole**. 1978. Antibody binding of glycosyltransferase enzyme preparations from homologous and heterologous serotypes from *S. mutans*. Adv. Exp. Biol. Med. 107:317-327.
- ***Ebersole, J.L.**, M.A. Taubman, D.J. Smith, and J. Crawford. 1978. Characterization of immunoglobulin-containing cells in the submandibular gland of the rat after local immunization. Adv. Exp. Biol. Med. 107:155-165.
- ***Ebersole, J.L.**, M.A. Taubman, and D.J. Smith. 1979. The effect of neonatal thymectomy on the level of salivary and serum immunoglobulins in rats. Immunology 36:549-657.
- *Smith, D.J., M.A. Taubman, and **J.L. Ebersole**. 1979. Preparation of glycosyltransferase from *Streptococcus mutans* by elution from water-insoluble polysaccharide with a dissociating solvent. Infect. Immun. 23:446-452.
- ***Ebersole, J.L.**, M.A. Taubman, and D.J. Smith. 1979. Thymic control of secretory antibody response in the rat. J. Immunology. 123:19-23.
- ***Ebersole, J.L.**, M.A. Taubman, and D.J. Smith. 1979. The neonatally thymectomized rat: A model for compensatory IgM antibody formation in exocrine secretions. Immunology 38:33-39.
- *Smith, D.J., M.A. Taubman, and **J.L. Ebersole**. 1979. Effect of oral administration of glycosyltransferase antigens on experimental dental caries. Infect. Immun. 26:82-89.
- *Smith, D.J., M.A. Taubman, and **J.L. Ebersole**. 1980. Local and systemic antibody response to oral administration of glycosyltransferase antigen complex. Infect. Immun. 28:441-450.

- *Cox, D.S., M.A. Taubman, **J.L. Ebersole**, and D.J. Smith. 1980. Secretory antibody response to local injection of soluble or particulate antigens in rats. *Molec. Immunology*. 17:1105-1115.
- *Taubman, M.A., **J.L. Ebersole**, D.J. Smith, and R.C. Reger. 1980. The immuno-chemical approach to dental caries prevention: Secretory immune system adjuvant studies. *J. Dent. Res.* 59:2163-2170.
- ***Ebersole, J.L.**, D.E. Frey, M.A. Taubman, and D.J. Smith. 1980. An ELISA for measuring serum antibodies to *Actinobacillus actinomycetemcomitans*. *J. Periodont. Res.* 15:621-632.
- *Smith, D.J., M.A. Taubman, and **J.L. Ebersole**. 1980. Immunity and dental caries. *New Dentist* 10:32-35.
- *Smith, D.J., M.A. Taubman, and **J.L. Ebersole**. 1981. Effects of local immunization with glycosyltransferase antigens from *Streptococcus sanguis* on dental caries caused by *Streptococcus mutans*. *Arch. Oral Biol.* 26:871-878.
- *Taubman, M.A., J.M. Buckelew, **J.L. Ebersole**, and D.J. Smith. 1981. Periodontal bone loss and immune response to ovalbumin in germfree rats fed antigen-free diet with ovalbumin. *Infect. Immun.* 32:145-152.
- ***Ebersole, J.L.**, M.A. Taubman, D.J. Smith, R.J. Genco, and D.E. Frey. 1981. Human immune responses to oral microorganisms. I. Association of localized juvenile periodontitis (LJP) with serum antibody response to *Actinobacillus actinomycetemcomitans*. *Clin. Exp. Immunology.* 47:43-52.
- ***Ebersole, J.L.**, M.A. Taubman, and D.J. Smith. 1982. The effect of neonatal thymectomy on immune response to *Streptococcus mutans* in the rat. *Infect. Immun.* 37:993-1000.
- ***Ebersole, J.L.**, M.A. Taubman, and D.J. Smith. 1982. Effect of neonatal thymectomy on dental caries in rats. *Infect. Immun.* 38:1130-1136.
- *Smith, D.J., M.A. Taubman, and **J.L. Ebersole**. 1982. Effects of local immunization with GTF on colonization of hamsters by *S. mutans*. *Infect. Immun.* 37:656-661.
- *Burns, C.A., **J.L. Ebersole** and M.R. Allansmith. 1982. Immunoglobulin A antibody levels in human tears, saliva and serum. *Infect. Immun.* 36:1919-1922.
- *Altman, L.C., R.C. Page, **J.L. Ebersole** and G.E. Vandesteen. 1982. Assessment of host defense in patients with various types of periodontitis. *J. Periodont. Res.* 17:425-427.
- ***Ebersole, J.L.**, M.A. Taubman, D.J. Smith and S.S. Socransky. 1982. Humoral immune response and diagnosis of human periodontal disease. *J. Periodont. Res.* 17:478-480.
- *Smith, D.J., M.A. Taubman, **J.L. Ebersole**, and W. King. 1982. Relationship between frequency of pilocarpine administration and salivary IgA level. *J. Dent. Res.* 61:1451-1453.

- *Smith, D.J., M.A. Taubman, and **J.L. Ebersole**. 1982. Effect of local immunization on colonization of hamsters by *Streptococcus mutans*. *Infect. Immun.* 37:656-661.
- *Socransky, S.S., A.C.R. Tanner, J.M. Goodson, A.D. Haffajee, C.B. Walker, **J.L. Ebersole** and G.C. Sornberger. 1982. An approach to the definition of periodontal disease syndromes by cluster analysis. *J. Clin. Periodont.* 9:450-471.
- *Vandesteen, G.E., L.C. Altman, M. Spektor, B. Williams, **J.L. Ebersole** and R.C. Page. 1982. Leukocyte function, microflora, and antibody studies of four families with periodontitis. *J. Periodont. Res.* 17:498-499.
- *Taubman, M.A., J.M. Buckelew, **J.L. Ebersole** and D.J. Smith. 1983. Periodontal bone loss on ovalbumin sensitized germfree rats fed antigen-free diet with ovalbumin. *J. Periodont. Res.* 18:292-302.
- *Smith, D.J., **J.L. Ebersole** and M.A. Taubman. 1983. Aging and salivary immune response in hamsters. *Ann. NY Acad. Science.* 409:875-876.
- ***Ebersole, J.L.**, M.A. Taubman and D.J. Smith. 1983. Effect of adjuvants on local SIgA responses. *Ann. NY Acad. Science.* 409:815-816.
- *Taubman, M.A., **J.L. Ebersole**, D.J. Smith and W. Stack. 1983. Adjuvants for secretory immune responses. *Ann. NY Acad. Science.* 409:637-648.
- *Allansmith, M.R., **J.L. Ebersole** and C.A. Burns. 1983. IgA antibody levels in human tears, saliva and serum. *Ann. NY Acad. Science.* 409:766-768.
- *Kashket, S., K.M. Guilmette and **J.L. Ebersole**. 1983. The effect of prolonged stimulation of salivary flow on bacterial factors. *J. Dent. Res.* 62:331-335.
- *Taubman, M.A., **J.L. Ebersole** and D.J. Smith. 1983. Immunoglobulins of rnu/rnu "nude" rats with congenital aplasia of the thymus. *Immunology* 49:295-300.
- ***Ebersole, J.L.**, M.A. Taubman, D.J. Smith, B.F. Hammond and D.E. Frey. 1983. Human immune responses to oral microorganisms. II. Serum antibody responses to antigens from *Actinobacillus actinomycetemcomitans* and the correlation with localized juvenile periodontitis. *J. Clin. Immunology.* 3:321-331.
- *Smith, D.J., **J.L. Ebersole** and M.A. Taubman. 1983. Local and systemic immune response in aged hamsters. *Immunology* 50:407-413.
- ***Ebersole, J.L.**, M.A. Taubman and D.J. Smith. 1983. Distribution of immunoglobulin-containing cells in normal and neonatally thymectomized rats. *Infect. Immun.* 42:668-674.
- ***Ebersole, J.L.**, M.A. Taubman and D.J. Smith. 1983. Cellular and humoral IgA responses after single and multiple local injections of antigen. *Cell Immunology.* 77:372-384.

- *Smith, D.J., M.A. Taubman and **J.L. Ebersole**. 1983. Effects of local immunization of hamsters with glycosyltransferase antigens on infection with *Streptococcus mutans*. *Infect. Immun.* 42:156-162.
- ***Ebersole, J.L.**, M.A. Taubman, D.J. Smith and J.M. Goodson. 1983. Gingival crevicular fluid antibody to oral microorganisms. I. Method of collection and analysis of antibody. *J. Periodont. Res.* 19:124-132.
- *Dzink, J.L., S.S. Socransky, **J.L. Ebersole** and D.E. Frey. 1983. ELISA and conventional techniques for identification of black-pigmented *Bacteroides* isolated from periodontal pockets. *J. Periodont. Res.* 18:5-30.
- *Taubman, M.A., H. Yoshie, J.R. Wetherell, Jr., **J.L. Ebersole** and D.J. Smith. 1983. Immune response and periodontal bone loss in germfree rats immunized and infected with *Actinobacillus actinomycetemcomitans*. *J. Periodont. Res.* 18:393-401.
- *Page, R.C., L.C. Altman, **J.L. Ebersole**, G.E. Vandesteen, W.H. Dahlberg, B.L. Williams and S.K. Osterberg. 1983. Rapidly progressive periodontitis: a distinct clinical condition. *J. Periodontol.* 54:197-209.
- *Vandesteen, G.E., B.L. Williams, **J.L. Ebersole**, L.C. Altman and R.C. Page. 1984. Clinical, microbiological and Immunological studies of a family with high prevalence of early onset periodontitis. *J. Periodontol.* 55:159-169.
- *Haffajee, A.D., S.S. Socransky, **J.L. Ebersole** and D.J. Smith. 1984. Clinical, microbiological and Immunological features associated with the treatment of active periodontosis lesions. *J. Clin. Periodontol.* 11:600-618.
- ***Ebersole, J.L.**, M.A. Taubman and D.J. Smith. 1984. Gingival crevicular fluid antibody to oral microorganisms. II. Distribution and specificity of local antibody responses. *J. Periodont. Res.* 20:349-356.
- *Smith, D.J., L.M. Gadalla, **J.L. Ebersole** and M.A. Taubman. 1984. Gingival crevicular fluid antibody to oral microorganisms. III. Association of antibody levels in gingival homogenates with gingival crevicular fluid. *J. Periodont. Res.* 20:357-367.
- ***Ebersole, J.L.**, D.E. Frey, M.A. Taubman, D.J. Smith, S.S. Socransky and A.C.R. Tanner. 1984. Serological identification of oral *Bacteroides* spp. by enzyme-linked immunosorbent assay. *J. Clin. Microbiol.* 19:639-644.
- *Taubman, M.A., H. Yoshie, **J.L. Ebersole**, D.J. Smith and C.L. Olson. 1984. Host response in experimental periodontal disease. *J. Dent. Res.* 63:455-450.
- *Tanner, A.C.R., M.A. Listgarten and **J.L. Ebersole**. 1984. *Wolinella curva*, spp. nov. (*Vibrio succinogenes* of human origin) a species distinct from *Wolinella succinogenes* and *Wolinella recta*. *Int. J. System Bact.* 34:275-282.

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- J.L. Ebersole**, D. Cappelli, M.J. Steffen, S.C. Holt, R.E. Singer, T. Filloon. 2003. Local Immune Response Effects on the Microbiota & Periodontitis in Nonhuman Primates (Nhp). *J. Dent. Res.* 82: #1731.
- Chu, L., **J.L. Ebersole**. 2003. Glutathione Utilization and Hydrogen Sulfide Production by *Treponema denticola* and Other Oral Bacteria. *J. Dent. Res.* 82: #1741.
- Cohen, S.G., W.J. Diamond, M.J. Steffen, L.N. Kesavalu, **J.L. Ebersole**, F.F. Novak. 2003. Effects of Serum on Protein Expression in *Porphyromonas gingivalis*. *J. Dent. Res.* 82:#369.
- Reynolds, M.A., G. Branch-Mays, G. Gunsolley, D. Ingram, M. Lane, G. Roth, J. Mattison, **J.L. Ebersole**, M.J. Novak. 2003. Caloric Restriction, Aging, and Periodontal Inflammation. *J. Dent. Res.* 82: #525.
- Cherubini, M.L., **J.L. Ebersole**, E.P. Hicks, M.K. Rayens. 2003. Rofecoxib, a Cyclooxygenase-2 Inhibitor, and its Analgesic Efficacy in Orthodontically Induced Pain: A Randomized, Controlled Trial. *J. Dent. Res.* 82: #2125.

4. Reviews, Editorials:

- ***Ebersole, J.L.**: Systemic Humoral Immune Responses in Periodontal Disease. Critical Reviews in Oral Biology and Medicine. Ed. O. Alvares, CRC Press, 1990.
- ***Ebersole, J.L.**. 1986. Immunologic assays for cariogenic and putative periodontal pathogens. *Oral Microbiol. Immunol.* 1:45-47.
- ***Ebersole, J.L.**, and R.P. Ellen. Summary of Chapters 18 to 25. In: Molecular Pathogenesis of Periodontal Disease. Ed. R.J. Genco, ASM Publications, Washington, D.C., 1994.
- ***Ebersole, J.L.** and M.A. Taubman. The protective nature of host responses in periodontal disease(s). In: Periodontology 2000. Ed. J. Slots, Munksgaard, Copenhagen, 1994, 5:112-141.
- *Kinane, D.F., J. Mooney, and **J.L. Ebersole**. 1999. Humoral immune responses to *Actinobacillus actinomycetemcomitans* and *Porphyromonas gingivalis* in periodontal disease(s). ed. J. Slots, Munksgaard, Copenhagen, Periodontology 2000, 20: 289-340.

- ***Ebersole, J. L.** and D. Cappelli. 2000. Acute phase reactants in periodontitis. ed. R. Williams and S. Offenbacher, *Periodontology* 2000, 19:19-49.
- *Podmore, M., **J.L. Ebersole**, and D.F. Kinane. 2001. Immunodominant antigens in periodontal disease: A real or illusive concept? *Crit. Rev. Oral Biol. Med.*, 12: 179-185.
- *Kinane, D.F., Podmore, M., **Ebersole, J.L.** 2001. Etiopathogenesis of periodontitis in children and adolescents. *Periodontol* 2000, 26: 54-91.
- ***Ebersole, J.L.**, Cappelli, D., Holt, S.C. 2001. Periodontal diseases: to protect or not to protect is the question? *Acta Odontol Scand.* 59: 161-166.
- ***Ebersole, J.L.** 2003. Humoral responses in gingival crevicular: Local and systemic implications. ed. J. Uitto, *Periodontology* 2000, 31:135-166.

5. Other

Invited Lectures:

- | | |
|------|---|
| 1979 | Invited Speaker, Symposium Host Responses in the Oral Cavity, IADR, Osaka, Japan |
| 1982 | Invited Speaker, Symposium Glycosyltransferases, Glucans, Sucrose and Dental Caries, Louisville, Kentucky |
| 1983 | Guest Speaker, Workshop on Periodontal Disease Diagnosis, Miles Laboratories, Chicago, Illinois |
| 1983 | Invited Speaker, AADR Symposium, Periodontal Research Group, Cincinnati, Ohio |
| 1983 | Invited Speaker, 25th Anniversary Symposium, Department of Periodontics, University of Washington, School of Dentistry, Seattle, Washington |
| 1983 | Invited Speaker, 5th International Periodontal Disease Research Conference, Seattle, Washington |
| 1983 | Invited Speaker, University of Florida, Gainesville, Florida |
| 1984 | Guest Lecturer, Cariology and Periodontology, University of Connecticut, School of Dentistry |
| 1984 | Invited Speaker, New York Academy of Sciences, New York, New York |

- 1984 Invited Speaker, 6th International Periodontal Disease Research Conference, Kibbutz Shefayim, Israel
- 1984 Invited Speaker, European Research Group in Oral Biology, Kronenborg, Denmark
- 1985 Lunch and Learning Moderator, AADR, Las Vegas, Nevada
- 1985 Invited Speaker, 32nd Annual Scientific Session, The Western Society of Periodontology, Las Vegas, Nevada
- 1985 Invited Speaker, Mexican AADR, Mexico City, Mexico
- 1985 Invited Speaker, AADR Symposium, Microbiology/Immunology and Periodontal Research Group, Washington, D.C.
- 1986 Invited Speaker, 50th Anniversary Dutch Society of Periodontology, Amsterdam, Netherlands
- 1986 Invited Speaker, 7th International Periodontal Disease Research Conference, Berne, Switzerland
- 1987 Invited Speaker, Periodontal Disease Symposium, Procter and Gamble, Cincinnati, Ohio
- 1988 Invited Speaker, European Research Group in Oral Biology, Zurich, Switzerland
- 1988 Invited Speaker, 11th International Convocation on Immunology, Buffalo, New York
- 1987/88 Guest Lecturer, Forsyth Dental Center, Boston, Massachusetts
- 1988 Guest Lecturer, Emory University, Atlanta, Georgia
- 1989 Lunch and Learning Moderator, AADR, San Francisco
- 1989 Invited Speaker, University of Alabama, Birmingham, Alabama
- 1989 Invited Speaker, Combined meeting of the Ontario Society of Periodontists and the Canadian Academy of Periodontology, Toronto, Ontario, Canada

- 1989 Invited Speaker, Royal Society of Medicine Odontology Symposium, London, England
- 1989 Invited Speaker, Gordon Conference on Periodontal Diseases, Plymouth, New Hampshire
- 1990 Invited Speaker, Outreach Symposia, AADR, Cincinnati, Ohio
- 1990 Invited Speaker, 4th Borderland Between Caries and Periodontal Disease, Geneva, Switzerland
- 1990 Invited Speaker, International Conference on Periodontal Disease: Pathogens and Host Immune Responses, Osaka, Japan
- 1990 Co-organizer, 8th International Conference on Periodontal Research, San Antonio, Texas
- 1991 Invited Speaker, Gordon Conference on Periodontal Diseases, Plymouth, New Hampshire
- 1991 Invited Speaker 1st Oral Immunology Research Group Meeting, Tampa, Florida
- 1992 Invited Speaker, 9th International Conference on Periodontal Research, Osaka Japan
- 1992 Invited by Pusan National University, College of Dentistry to speak to Korean Oral Biology and Periodontics specialists in Seoul, Korea
- 1992 Invited Speaker, Outreach Symposium, AADR Boston, Massachusetts
- 1992 Invited Speaker, 2nd Oral Immunology Research Group Meeting, Marcos Island, Florida
- 1993 Invited Session Chairman, 100th Anniversary SUNY at Buffalo Dental School, Buffalo, New York
- 1993 Invited Speaker, 3rd Oral Immunology Research Group Meeting, Bermuda
- 1993 Invited Speaker, Texas Regional American Society for Microbiology meeting, Austin, TX

- 1994 Invited Participant, Keystone Conference on Microbial Pathogenesis
- 1995 Invited Speaker, Italian Society of Periodontology (SIDP) 7th International Congress, Firenze, Italy
- 1995 Organizer, Outreach Symposium, AADR, San Antonio, Texas
- 1995 Invited Speaker, Texas Regional American Society for Microbiology meeting, Corpus Christi, TX
- 1996 Invited Speaker 6th Oral Immunology Research Group Meeting, Orlando
- 1996 Invited Speaker, Symposium on Changing Paradigms in Periodontal Disease, IADR, San Francisco
- 1997 Invited Speaker, Symposium on Molecular Pathogenesis of Periodontal Disease, St. Petersburg, FL
- 1997 Invited Participant, NIDCR Workshop on Oral Microbial Genomics, Bethesda, MD
- 1998 Invited Speaker, Symposium on IgA and Periodontal Disease, IADR, Nice, France
- 1999 Invited Speaker, 11th International Conference on Periodontal Research, Goteborg, Sweden
- 2000 Invited Participant, NIDCR Workshop on Periodontal Disease and NHANES, Bethesda, MD
- 2000 Invited Speaker and Session Moderator, Gordon Research Conference on Periodontal Disease, Oxford, England
- 2001 Invited Speaker, Tennessee Association of General Dentist Annual Meeting, Nashville, TN
- 2001 Invited Speaker and Organizing Committee, New Frontiers in Oral Immunological Diseases, Lillehammer, Norway
- 2001 Invited Speaker, Finnish Dental Society Appolonia Dental Research and Lecture Days, Jyväskylä, Finland

- 2001 Invited Speaker, ALT Symposium, Lexington, KY
- 2002 Invited Speaker, University of Western Ontario
- 2002 Invited Speaker, 12th International Conference on
Periodontal Research, Chapel Hill, NC
- 2002 Invited Speaker, Bluegrass Dental Society, Lexington,
KY
- 2003 Invited Speaker, 12th Oral Immunology-Microbiology
Research Group Meeting, Longboat Key, FL
- 2003 Invited Speaker, Bluegrass District Dental Hygienists'
Society, Lexington, KY

B. Areas of Research Interest:

Dr. Ebersole's research area is B cell biology and antibodies in secretory immunity and periodontal immunobiology. He has had NIH funding for nearly 30 years. His primary research emphasis is in the development, specificity and functional abilities of antibodies in the oral cavity. These characteristics are also explored as potential diagnostic tools in oral diseases. The interrelationships of specific host immune responses and local inflammatory mediators/cytokines are being studied in both human and animal models of oral disease.

C. Current Projects:

Current projects include four primary areas of research:

- (1) Mechanisms of pathogenesis of oral pathogens particularly from the perspective of the host.
- (2) Profiles of host local inflammatory/immune mediators in human and nonhuman primate periodontal disease.
- (3) Characteristics of *in vitro* bacteria-host interactions with non-immune resident cells of the periodontium.
- (4) Human antibodies to *A. actinomycetemcomitans* in periodontal disease.
- (5) Characteristics of oral treponemes in HIV periodontitis.
- (6) Biologic mechanisms of oral infections and systemic disease relationships

D. Current and Recent Research Support

National

ACTIVE

R01 DE10863-07 NIH/NIDCR
Oral Treponemes in Periodontal Diseases: HIV and ANUG
06/15/99-04/30/04
Principal Investigator

R01 DE13958-01 NIH/NIDCR
Periodontitis and Preterm Birth: Nonhuman Primate Model
05/01/02 - 04/30/07
Principal Investigator

R01 DE14338-01 (Novak, M.J., PI.)
Effects of Periodontal Therapy on Preterm Birth
09/11/02-08/30/05
Co-Investigator

R21 DE014896-01 NIH/NIDCR (Kesavalu, L., PI)
10/01/02-09/30/04
n-3 Fatty Acid & Host Responses to Oral Infection
Co-Investigator

U01 AG21406-01 NIH/NIA (Novak, M.J, PI.)
09/01/02-08/30/06
Aging: Effects on Infection, Inflammation and Disease
Co-Investigator

PENDING

R01 DE015318-01 NIH/NIDCR
07/01/03 - 06/30/06
n-3 Fatty Acid Diets: Periodontitis in Nonhuman primates
Principal Investigator

R24 DE015481-01 NIH.NIDCR
07/01/03 – 6/30/04
UKCD Research Genesis Project
Principal Investigator

Other

MCRF – Univ. of Kentucky Medical Center
07/01/02 – 06/30/03
Host Response Profiles in Gingival Tissues from Healthy, Gingivitis, and Periodontitis Sites
Principal Investigator

IV. SERVICE

A. Professional Affiliations

1. Current Professional and Scientific Organizations and Societies:

IADR Microbiology and Immunology Group

American Association of Dental Research

International Association of Dental Research

American Association for the Advancement of Science

2. Past and Current Positions and/or Offices Held in Professional Organizations:

1985 President-Elect, IADR Microbiology/Immunology Group

1986 President, IADR Microbiology/Immunology Group

1987-1990 Program Chairman, IADR Microbiology/Immunology Group

1992-1993 IADR Publications Committee

1993-pres. Counselor, IADR Microbiology/Immunology Group

1995-1997 IADR Education Outreach Committee

1997-2001 AADR Nominating Committee, Chair 2000-2001

1996-pres. Member, NIDCR Special Grants Review Study Section

2003-2005 Member-at-Large, Board of Directors of AADR

3. Other Professional Activities:

1986 AADR Symposium Organizer - Use of Laboratory Findings in the Management of Periodontal Disease

1986 IADR Symposium Co-Organizer - Oral Health Research Implications of AIDS

1986-pres Reviewer for Abstracts for Presentation for Microbiology and Immunology Section of AADR

1986-pres Editorial Board - Oral Microbiology and Immunology

- 1987-pres Editorial Board - Journal of Periodontal Research
- 1989-1992 NIDR Programs Advisory Committee
- 1989-1993 Site Visit and Study Sections for NIDR
- 1990-1992 Outreach Symposium Presenter for AADR Meeting
- 1992 IADR Symposium Organizer -- Genetic Contribution to Susceptibility to Periodontal Disease
- 1993-1994 Co-Organizer, Minority Oral Health Research Conference, San Antonio, Texas
- 1993-1995 Strategic Planning Committee for Journal of Dental Research
- 1994 Outreach Symposium Committee, IADR
- 1994-pres. Editorial Board - Oral Diseases
- 1994-1999 Editorial Board - Journal of Dental Research
- 1995 Outreach Symposium Organizer, AADR Meeting, San Antonio
- 1997-pres Editorial Board, International Journal of Oral Biology
- Reviewer for Arthritis and Rheumatism
- Reviewer for Journal of Immunology
- Reviewer for Archives of Oral Biology
- Reviewer for Infection and Immunity
- Reviewer for Journal of Dental Research
- Reviewer for Journal of Periodontology
- Reviewer for Journal of Clinical Periodontology
- Reviewer for Journal of Oral Pathology
- Reviewer for Journal of Clinical Laboratory Investigations

Reviewer for Journal of Clinical Microbiology

Reviewer for Microbiology

Reviewer for Critical Reviews in Oral Biology and
Medicine

Reviewer for Microbial Ecology in Health and Disease

Reviewer for Periodontology 2000

Reviewer for Journal of Oral and Maxillofacial Surgery

Reviewer for European Journal of Oral Sciences

Reviewer for MRC of Canada grants

Ad Hoc Reviewer for NIH grants, site visits

2000 Grant Reviewer, Canadian Foundation for Innovation

4. Community Activities:

1987 Lecture, Jackson Middle School; Careers in
Research

1987-1988 Judge, Alamo Regional High School Science
Fair

1988-1996 Booster Club, Lee High School

1988 Lecture, Advanced Biology, Lee High
School, Careers in Research

1988 Lecture, United Methodist Church, Walzem
Road; Animals in Biomedical Research

1989 Lecture Luncheon, Texas A&M Alumni;
Animals in Biomedical Research

1989 Debate, John Holrah (Voice for Animals),
KENS-TV; Animals in Biomedical Research

1989 Lecture, Health Careers High School;
Animals in Biomedical Research

- 1989-1995 Presentations on dental research to representatives from San Antonio, USAA, UT System, Texas Legislature, U.S. Legislature and Texas Border Health Group
- 1990 Lecture, Biology Class, Clark High School; Animals in Biomedical Research
- 1990 WOAI, debate Don Barnes (NEAVS) on animal rights
- 1990 Presentation to Northside Independent School District science teachers; Animals in Biomedical Research
- 1990 Organizer of LAR Facility Tour for San Antonio news media
- 1991 Debate, Animal Rights, Philosophy Course at UTSA (Dr. Marc Bernstein)
- 1992 Presentation to San Antonio Science Educators; Animals in Biomedical Research
- 1993 Speaker at San Antonio First Friday Forum; Animals in Biomedical Research
- 1993-1994 Organizer, High School Art Competition for Minority Oral Health Conference
- 1994 Presentation at Texas Society of Veterinary Medicine; Animals in Biomedical Research
- 1994 Presentation at the University of Puerto Rico Dental School; Periodontitis - Diabetes
- 1994 Featured Speaker at Texas State Health Occupation Students Association Convention
- 2000 Featured Speaker at College Research Day, UK College of Dentistry
- 2000 Speaker, Oral Health Research Opportunities, Transylvania Univ.

- 2000 Featured Speaker, Mountain Dental Society Meeting, Pikeville, KY
- 2000 Consultant WebMD on periodontitis and cardiovascular disease
- 2001 Contributor to Kentucky Rural Health Association newsletter
- 2001 Invited Speaker, UK Community Based Practice Network, Lexington, KY
- 2002 Invited Speaker, Bluegrass Dental Society, Lexington, KY

B. Patient Service: N/A

C. Committees:

The University of Texas Health Science Center at San Antonio

- 1999-2000 Graduate Faculty Assembly, Program Subcommittee member
- 1997-1999 Representative, Univ. of Texas System Faculty Advisory Council
- 1997-1998 Chair, Graduate Faculty Assembly
- 1997-2000 Chairman, Graduate Student Awards Committee, Graduate School of Biomedical Sciences
- 1997-1998 Member, Future Directions Subcommittee for Southern Association of Colleges and Schools Accreditation
- 1996-1997 Vice-Chair, Graduate Faculty Assembly
- 1995-1999 Graduate Student Awards Committee, Graduate School of Biomedical Sciences
- 1991-1999 Crisis Committee, UTHSCSA
- 1991 Member, Search Committee: Chairman, Department of Physiology

1986-1988	Vice Chairman, Institutional Animal Care Committee
1986-1991	Member and Chairman, Institutional Animal Care Committee
1988	Member, Search Committee: Director, UTIBT
1987	Member, Cancer Research Grant Committee
1986-1987	Computing Resources Committee
1998-2000	Member, Curriculum Development Task Force
1998-1999	Chair, Task Force for Dual Degree Program
1998	Member, Task Force on Associate Dean for Research
1996-1998	Member, Faculty Development Committee
1993	Department of Periodontics representative to Local Information Committee, Institute of Medicine Committee on the future of dental education
1988	Member, Subcommittee - Outcomes Model Development (Accreditation)
1989-1992	Member, Strategic Planning Committee- Dental School
1988	Member, Ad Hoc Committee on Undergraduate Teaching Dental Caries and Periodontal Disease
1987	Group Leader, Faculty Advance
1987	Summary Presentation of Research Group, Faculty Advance
1987	Member, Search Committee: Chairman, Restorative Dentistry

1983-1985	Dental Hygiene Science Review
1982-1984	Journal Club Organizer
1995-2000	Member, Departmental Committee on Graduate Studies
1994-2000	Member, Departmental Promotion and Tenure Committee
1989-1990	Organizer, Oral Biology/DSA Seminar Series
1989	Member, Graduate Student Selection Committee
1988	Faculty Search Committee
1988	Postdoctoral Research Committee

The University of Kentucky

2000-2002	Kentucky Center for Clinical Investigator Services, member
2000-pres.	General Clinical Research Center, Advisory Board
2000-pres.	University Research Advisory Committee, member
2000-pres.	Medical Center Research Advisory Committee, member
2000	Task Force on Animal Costs, member
2000	Task Force on Water Quality at Medical Center, member
2001-2002	Task Force Equipment Identification, member
2001	Kirwan Prize Selection Committee, Member
2001-2002	Task Force on UK Futures, member
2001-pres.	UK Intellectual Property Committee

- 2002-pres. HIPAA Research Committee
- 2002-pres. Committee for Periodic Review of College
of Medicine
- 2002-pres. UKCRO Advisory Committee
- 2002-pres. UKCRO Executive Advisory Committee

D. Administrative Responsibilities:

1. Department, Division, Clinical Service, Coordinator, etc.:

Director, Center for Oral Health Research: Responsibilities include development and oversight of research infrastructure for the College of Dentistry

Associate Dean for Research and Graduate Studies: Responsibilities include oversight of research activities within the graduate programs, as well as development of faculty, undergraduate, and graduate research enterprise

2. Staff and Personnel Currently Supervised:

Dana Satterly, Administrative Officer I
Michelle Steffen, Senior Research Associate
Lakshmyya Kesavalu, Research Assistant Professor
Brad Huang, Research Scientist

V. OTHER PERTINENT INFORMATION: None