

ANN PROGULSKE-FOX

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ACADEMIC EXPERIENCE

2008-present Distinguished Professor, Department of Oral Biology, College of Dentistry, University of Florida
2000-present Director, University of Florida Center for Molecular Microbiology
1998 Acting Chair, Department of Oral Biology, College of Dentistry, University of Florida
1996-2008 Professor, Department of Oral Biology, College of Dentistry, University of Florida
1989-1996 Associate Professor, Department of Oral Biology, College of Dentistry, University of Florida
1984-1989 Assistant Professor, Departments of Oral Biology, College of Dentistry, and Immunology and Medical Microbiology, College of Medicine, University of Florida
1/84-8/84 Instructor-In-Residence, Department of Microbiology, College of Medicine, University of Connecticut

EDUCATION AND TRAINING

1982-1984 Postdoctoral Fellow: University of Connecticut College of Medicine, Department of Microbiology. Supervisor, M. J. Osborn
1982 Cold Spring Harbor Advanced Bacterial Genetics Course.
1983 PhD: Microbiology, University of Massachusetts. Mentor, S.C. Holt
1974 BS: South Dakota State University. Major: Bacteriology and Biology

INTERNATIONAL/NATIONAL HONORS AND COMMITTEE MEMBERSHIPS

Member, 2016 National Academy of Inventors Fellows Advisory Committee, 2016-present
Elected Fellow, American Association for the Advancement of Science, 2015
Distinguished Scientist Award for Basic Research in Periodontal Disease, International Association for Dental Research, 2006
Director, Mark Wilson Conference, Annual Meeting of the Oral Microbiology and Immunology Research Group, 2004-present
Member, American Association for Dental Research committee on Governmental Affairs, 2015
Member and Chair, American Heart Association Grant Review Committee, Microbiology, 2010-present
Member, American Heart Association Greater Southeast Affiliate Research Committee, 2014-present
Member, NICDR/DSR New Investigator R03, Fs, & Ks Grant Review Committee, 2012
Member, Committee on Biomedical Research of the Public and Scientific Affairs Board, American Society for Microbiology, 2011-present
Member, NIH ZRG1 MOSS-G 02 Special Emphasis Panel, 2011
Member, NIH ZRG1 MOSS-C 90 Special Emphasis Panel, 2011
Member, Scientific Advisory Board, Harvard School of Dental Medicine, 2010-2015

Member, NIAID Special Emphasis Panel, NIH Support for Conferences and Scientific Meetings, 2010
Member, NIDCR Special Emphasis Panel, Metagenomic Evaluation of Oral Polymicrobial Disease, 2010
Reviewer, US-Israel Binational Science Foundation, 2010
Reviewer, Journal of Internal Medicine, 2010
Editorial Advisory Board for the Journal of Oral Microbiology, 2009-present
External Advisory Committee for Oralgen, Los Alamos National Laboratory, 2008-2010
Consultant, Harvard School of Dental Medicine Postgraduate Programs, 2008-present
External Advisory Board, Louisiana State University School of Dentistry, 2004-2010
Ad-hoc member, Oral Biology and Medicine Study Section, NIH, 1988, 1993-present
Consultant, American Dental Association Council on Dental Therapeutics, 1988-1998
Reviewer, Annual Meeting Scientific Program Committee, American Association for the Advancement of Science, 2008
Chair, Section R, American Association for the Advancement of Science, 2007-2008
Member, Congressional Science Fellowship Selection Committee, American Society for Microbiology, 2004-2005, 2007-present
Invited Speaker, Gordon Research Conference, Periodontal Disease, 2006
External Scientific and Program Advisory Committee, Oregon Health and Science University 2004
President, International Association for Dental Research, Microbiology/Immunology Division, 2000-2002
Member, Public and Scientific Affairs Board, American Society for Microbiology, 1995-04
Chair, American Society for Microbiology Committee on Personnel Planning, 1991-04
Member, NIH NCRR, review panel, Clinical Research Centers, 2004
Member and Chair, Nominating Committee, American Society for the Advancement of Science, Division R, 2003
Member, NIH, Muscle, Connective Tissue and Skin Boundaries Team, 2001
Research Career Development Awardee, National Institutes of Health, 1992-1997
Member, National Institute of Dental Research Special Grants Review Committee, NIH, 1989-1993
Member, Numerous NIDCR Special Emphasis Panels, during the past twenty years
National Research Service Award, awarded by the National Institute of Allergy and Infectious Disease
Consultant, Medical Research Council of Canada
Grant reviewer, Australian Research Council
Invited speaker, Gordon Research Conference on Molecular Mechanisms of Microbial Adherence, 1991
Mentor, International Association for Dental Research, International Hatton Award Winner, 1991

Editorial Service

Receiving Editor (International), *FEMS Microbiology Letters* 1995-2000.
International Board of Editors, Journal of Oral Microbiology
Reviewer: *Epigenetics*, *Journal of Periodontology*, *Oral Microbiology and Immunology*, *Journal of Dental Research*, *Biochimica et Biophysica Acta*, *Journal of Bacteriology*, *Infection and Immunity*, *Molecular Microbiology*, *Chest*, *Nature Microbiology Reviews*, *Journal of Atherosclerosis and Thrombosis*, *PLOS One*

MEMBERSHIPS

American Association for the Advancement of Science
American Association for Microbiology
American Association for Dental Research
American Association for Oral Biology
American Society for Investigative Pathology (elected)
Federation of American Societies for Experimental Biology
International Association for Dental Research
Sigma Xi (elected)

UNIVERSITY HONORS, COMMITTEES, and ADMINISTRATIVE ASSIGNMENTS

Certified Master Mentor, University of Florida Clinical and Translational Science Institute, 2013-2014
Member, President's Advisory Committee for Preeminence, 2013-2014
Member, University of Florida Committee on Doctoral Education (advisory to President and Provost), 2010-present
Member, Multidisciplinary Advisory Committee for the K12 component of the NIH/NCRR Clinical and Translational Science Award, 2007-present
Member, Search Committee, Anatomy & Cell Biology, College of Medicine, 2010
Member, College of Medicine Search Committee for Chair of Molecular Genetics and Microbiology, 2007-08
University of Florida Research Foundation Professor, 2006-2009
Member, Executive Board of the Institute for the Advanced Study of Emerging Pathogens, 2005-2010
Member, Search Committee for Director of the UF Emerging Pathogens Institute, 2006-2007
Member, UF Review Committee, Research Opportunity Incentive Seed Fund Awards, 2007
Co-chair, UF Emerging Pathogens Initiative 2003-2005
Chair, Task Force on Bioterrorism Research, 2002 -2005
Member, Search Committee for Chair, Dept. of Molecular Genetics and Microbiology, College of Medicine, 2005
Member, UF Board of Directors, Animal Facilities and Care, 2000-2003
University of Florida Research Foundation Professor, 2000-2003
Member, UF Biotechnology Program Advisory Committee, 1998-2001
Member, UF Graduate Council (elected), 1996-2000
Member, UF Institutional Biosafety Committee, 1993-1999
Member, UF Task Force on Graduate Student Recruitment, 1996-1997
Chief Liaison to UF Administration, Association for Women Faculty, 1994-2000
Member, UF Search Committee for Director of Entrepreneurial Programs, 1995-1996
Member, Council on Faculty Development, University of Florida, 1992-1995
Member, Board of Directors, UF Center for Women's Studies, 1993-1995
President, UF Association of Women Faculty, 1992-1994
Organizer, UF Workshop on Administration and Leadership, 1993 and 1994
Member, Board of Directors, UF Division of Sponsored Research, 1992-1994
Chair, Long Range Planning Committee, UF Association for Women Faculty, 1991-1992
President-Elect and Chair of Programs, UF Association for Women Faculty, 1992-1993
Member, Faculty Senate 1985-1986

COLLEGE COMMITTEE, ADMINISTRATIVE ASSIGNMENTS, AND HONORS

Secretary, University of Florida College of Dentistry Faculty Assembly, 2013-2015
Chair, University of Florida College of Dentistry Accreditation Self-Study, Educational Program – Biomedical Sciences Committee, 2013-present
Chair, University of Florida College of Dentistry Tenure and Promotion Committee, 2012-2014
Member, University of Florida College of Dentistry Accreditation Self-Study, Self-Study Steering Committee for all Standards, 2013-present
Member, College of Dentistry Faculty Advisory Board, 2011-2015
Chair, College of Dentistry Search Committee, 2011-2012
Search Committee, Depts. of Periodontology & Oral Biology Jump Start Faculty positions, 2010
Member, College of Dentistry Promotion and Tenure Committee, 2006- 2009 and 2010-2013
Chair, College of Dentistry Promotion and Tenure Committee, 2008
Member, Internal Advisory Board, The Florida Research Infrastructure Enhancement Plan, 2004-present
Member, Search Committee, College of Dentistry Basic Science faculty positions, 1990-2000, 2005-06

Member, Steering Committee, College of Dentistry, 2003-2006
 Member, Search Committee for Chair of Dept. of Periodontology, 2005
 Chair, College of Dentistry Research Committee, 2000-01
 Member, Search Committee for Chair of Dept. of Oral Biology, 2000-01
 Member, Research Space Committee, College of Dentistry, 1998-2001 and 2002-2008
 Member, Curriculum Committee, College of Dentistry, 1998
 Member, Student Performance and Evaluation Committee, 1998
 Member, Executive Board, College of Dentistry, 1998
 Member, College of Dentistry Research Committee, 1991-94, and 1998-201
 Chair, Department of Periodontology Chair Search Committee, 1996-1997
 President, local Chapter of International Association for Dental Research 1987-1988 and 1998-2001
 Member, Admissions and Recruitment Committee, Interdisciplinary Ph.D. Program, College of
 Medicine, 1996-1998
 First Recipient, Research Award in Basic Sciences, College of Dentistry, 1994
 Director, Electron Microscopy Laboratory, 1994-1996
 Member, College of Dentistry *ad-hoc* Committee on Research Space Policy, 1995
 Member, College of Dentistry Task Force on Research Infrastructure, 1995
 Member, College of Dentistry TQM and Planning Advisory Committee, 1995
 Member, Board of Advisors for Graduate Student Education, College of Medicine, 1994 to 1996
 Judge, Medical Guild Graduate Student Research Competition, College of Medicine, 1995
 Chair, College of Dentistry Basic Science Committee for Accreditation, 1993-1994
 Member, College of Dentistry Steering Committee, 1991-1994
 Member, Admissions Committee, College of Dentistry, 1987-1990
 Organizer, Eucleation Support Group, University of Florida Clinics
 Founding Graduate Coordinator, Ph.D. program Oral Biology, 1986-1989
 Chairperson, Oral Biology Graduate Program Committee
 Phase A Microbiology Steering Committee, 1986 (College of Medicine)
 Project Review Committee (Training Grant), 1986 (College of Medicine)
 Preliminary Examination (Ph.D.) Committee, Immunology and Medical Microbiology, 1985-1988
 Organizer, Faculty Research Day for College of Dentistry, 1986 and 1987

GRADUATE STUDENTS MENTORED

1. Somying Tumwasorn, Ph.D., Dissertation title: Molecular Cloning and Characterization of *Bacteroides gingivalis* Antigens
2. Venkatarama Rao, Ph.D., Dissertation title: Virulence Factors of the Pathogenic Bacterium *Eikenella corrodens*: Molecular Cloning and Analysis – Hatton Award Winner, International Association for Dental Research
3. Guylaine Lepine, Ph.D., Dissertation title: Molecular and Genetic Characterization of the *Porphyromonas gingivalis* Hemagglutinins
4. Dongmei Gao, M.S., Type 4 Pilin Gene Expression and Regulation in *Eikenella corrodens*
5. Naohisa Miyashita, M.S., Expression of Hemagglutinin A from *Porphyromonas gingivalis* in *Salmonella typhimurium*
6. Yi Wu, Ph.D., Dissertation title: Identification and Characterization of *Porphyromonas gingivalis* Virulence Genes Using a pPGIVET System.
7. Brian Dorn, Ph.D., Dissertation title: Interactions of *Porphyromonas gingivalis* with Cells of the Cardiovascular System
8. Kenneth Jandik, M.S., (Periodontology) Thesis title: Invasive Differences Among *Porphyromonas gingivalis* Strains from Healthy and Diseased Periodontal Sites
9. Lihui (Sally) Yuan, Ph.D., Dissertation title: Quorum Sensing Regulated Gene Expression in *Porphyromonas gingivalis*
10. Sheila Walters, Ph.D., Dissertation title: The Identification of *In Vivo* Induced Genes in *Porphyromonas gingivalis* Using IVIAT
11. Kristi Totten, Ph.D., Dissertation title: Interactions of *P. gingivalis* with Human Endothelial Cells

12. Jennifer Rainho, M.S., Thesis title: Characterization of Mutants of *Porphyromonas gingivalis* Strain W83
13. Amanda Barrett, Ph.D, Dissertation title: PG0553 Plays A Significant Role In Por Secretion And Gingipains Processing In *Porphyromonas Gingivalis* Strain W83
14. Edith Sampson, Ph.D., Dissertation title: *Streptococcus mutans* OMZ175 Invasion of Oral and Cardiovascular Tissues
15. Ryan Chastain-Gross, Ph.D., Dissertation title: A Virulence Control Switch: The Role of Bacterial PG0717 In Periodontal Disease
16. Heran Getachew, Ph.D. Temporary dissertation title, in progress. *P. gingivalis* Mediated Disruption of Autophagy In Endothelial Dysfunction: Invasion and Trafficking in Human Coronary Artery Smooth Muscle Cells

DISSERTATION AND THESIS COMMITTEE MEMBER

1. Patricia Lawman, Ph.D., Dissertation title: Multilevel Control of Extracellular Sucrose Metabolism in *Streptococcus salivarius*
2. Seok-Woo Lee, Ph.D., Dissertation title: Construction and Testing of an *In Vivo* Expression Vector for *Porphyromonas gingivalis*
3. James Kohler, Ph.D. Dissertation title: Oral Immunization with a Recombinant *Salmonella typhimurium* Vaccine Expressing a Hemagglutinin of *Porphyromonas gingivalis*
4. Lina Clemencia Bueno Trujillo, Ph.D., Dissertation title: Characterization of Antibiotic Resistance Determinants of *Prevotella intermedia*
5. Heather Allison, Ph.D., Dissertation title: Cloning and Characterization of a *Prevotella melaninogenica* Hemolysin
6. Rodney Edwards, M.S., Thesis title: Evaluating the Relative Effects of Recommended Prophylactic Antibiotics on Gram-Negative Pathogens and Correlating Antenatal Group B Streptococcus Culture Results with Intrapartum Culture Results
7. Yiqian Dong, Ph.D., Dissertation title: The Arginine Deiminase System of *Streptococcus gordonii* DL-1
8. Michael Sedlacek, Ph.D., Dissertation title: *In Vitro* Biofilm Model of Subgingival Plaque : Biofilm Development and Antibiotic Resistance
9. Weihui Wu, Ph.D., Dissertation title: Regulation of the Type III Secretion System in *Pseudomonas aeruginosa*
10. Jeffrey Mans, Ph.D., Dissertation title: Complex Host-Microbe Interactions of the Oral Cavity Revealed by Epithelial Transcriptomics
11. Quingping Yang, M.S., Thesis title: Development and Validation of an *In Vitro* Porcine Skin Model of Bacterial Biofilms in Chronic Wounds
12. Mercedes Rivera, Ph.D., Dissertation title: Carbohydrate-Regulated Gene Expression of *Streptococcus mutans*
13. Aarti Chawla, M.S., Thesis title: Role of PG1237A: Novel Transcriptional Regulator in Biofilm Formation in *Porphyromonas gingivalis*
14. Afifa Hamad, Ph.D., Dissertation title: Development of a Clinical Microbiology Laboratory Assay for the Presence of Bacterial Biofilms on Chronic Wounds
15. Ayman Bialy Allan, Ph.D., Dissertation title: Genetic Manipulations and Gene Regulation of s1 Peptidase (ctpa) Expression in *Mycoplasma mycoides* subsp. *Capri*
16. Irina Velsko, Ph.D., Dissertation title: Periodontal pathogens induced atherosclerosis in ApoE^{null} and integrin beta6^{null} mice
17. Allyson Shea, Ph.D., Temporary dissertation title: Studies of the Pathogenic *E. coli*
18. Premakumari Venkatesh, Ph.D., Dissertation title: Role of microRNAs in cardiovascular disease

INTERNATIONAL DISSERTATION AND THESIS COMMITTEE MEMBER

1. Christine Jackson, Ph.D., University of Melbourne, Australia, Dissertation title: Characterization of Methylmalonyl Coenzyme A Mutase of *Porphyromonas gingivalis*
2. Jørn Aas, Ph. D., University of Oslo, Norway, Dissertation title: Microbial Flora in Oral Health and Disease Studied by Molecular Genetics
3. Hedda Høvik, Ph.D., University of Oslo, Norway, Dissertation title: Strand-specific Transcriptome profiles of *Porphyromonas gingivalis* Detected by Genomic Tiling Microarray and RNA Sequencing
4. Lino Thorlakson, University of Oslo, Dissertation title: Microbiological, Clinical and 3-Dimensional Features of White Spot Lesions in Permanent Teeth

PUBLICATIONS

1. **Progulske A** and Holt SC (1980) Transmission-scanning electron microscopic observations of selected *Eikenella corrodens* strains. J. Bacteriol. 143:1003-1018 PMID: PMC294406
2. **Progulske A** and Holt SC (1984) Isolation and characterization of the outer membrane and lipopolysaccharide from *Eikenella corrodens*. Infect. and Immun. 43:166-177 PMID: PMC263405
3. **Progulske A**, Mishell R, Trummel C and Holt SC (1984) Biological activities of *Eikenella corrodens* outer membrane and lipopolysaccharide. Infect. & Immun. 43:178-182 PMID: PMC263406
4. **Progulske-Fox A** and Holt SC (1987) Growth characteristics and nutritional requirements of *Eikenella corrodens* strain 23834. Oral Microbiol. and Immunol. 2:2-12 PMID: 3295685
5. **Progulske-Fox A** (1987) Recombinant DNA and genetic engineering in dentistry. F. Dent. J. 58:23-31 PMID: 3470208
6. Mattison GD, Haddix J, Kehoe J, **Progulske-Fox A** (1987) Effect of *Eikenella corrodens* lipopolysaccharide on periapical tissues *in vivo*. J. Endodont. 13:559-566 PMID: 3329211
7. Lee S, **Progulske-Fox A**, Bleiweis AS (1988) Molecular cloning and expression of a *Streptococcus mutans* major surface protein antigen, P1 (I/II) in *Escherichia coli*. Infect. Immun. 56:2114-2119 PMID: PMC259531
8. **Progulske-Fox A**, Tumwasorn S, Holt SC (1989) The expression and function of a *Bacteroides gingivalis* hemagglutinin gene in *Escherichia coli*. Oral Microbiol. Immunol. 4:121-131 PMID: 2700777
9. **Progulske-Fox A**, Oberste A, Drummond C, McArthur WP (1989) Transfer of plasmid pE5-2 from *Escherichia coli* to *Bacteroides gingivalis* and *B. intermedius*. Oral Microbiol. Immunol. 4:132-134 PMID: 2700778
10. Lee SF, **Progulske-Fox A**, Erdos GW, Piacentini DA, Ayakawa GY, Crowley PJ, Bleiweis AS (1989) Construction and characterization of isogenic mutants of *Streptococcus mutans*. Infect. Immun. 57(11):3306-13 PMID: PMC259806
11. Kelly C, Evans P, Bergmeier L, Lee SF, **Progulske-Fox A**, Harris AC, Aitken A, Bleiweis AS, Lehner T (1989) Sequence analysis of the cloned streptococcal cell surface antigen I/II. FEBS Letts. 258:127-133 PMID: 2687020
12. Bleiweis AS, Lee SF, Brady LJ, **Progulske-Fox A**, Crowley PJ (1990) Cloning and inactivation of the gene responsible for a major surface antigen on *Streptococcus mutans*. Archs. Oral Biol. 35:S15-23S PMID: 2088219

13. Banas JA, Ferretti JJ, **Progulske-Fox A** (1991) Identification and sequence analysis of a methylase gene in *Porphyromonas gingivalis*. Nucleic Acids Research 19:4189-4192 PMID: PMC328560
14. Shah HN, Gharbia SE, **Progulske-Fox A**, Brockelhurst K (1992) Evidence for independent molecular identity and functional interaction of the hemagglutination and cysteine proteinase (gingipain) of *Porphyromonas gingivalis*. J. Med. Microbiol. 36:239-244 PMID: 1313881
15. Rao V, **Progulske-Fox A** (1993) Cloning, characterization and sequencing of two hemagglutinin genes from *Eikenella corrodens*. J. of Gen. Microbiol. 139:639-650 PMID: 8473870
16. Rao V, **Progulske-Fox A** (1993) Cloning and sequencing of two type 4 (n-methylphenylalanine) pilin genes from *Eikenella corrodens*. J. of Gen. Microbiol. 139:651-660 PMID: 8473871
17. Dusek D, **Progulske-Fox A**, Whitlock J, Brown T (1993) Isolation and characterization of a cloned *Porphyromonas gingivalis* hemagglutinin from an avirulent strain of *Salmonella typhimurium*. Infect. Immun. 61:940-946 PMID: PMC302823
18. **Progulske-Fox A**, Rao V, Han N, Lepine G, Whitlock J, Lantz M (1993) Molecular characterization of hemagglutinin genes of periodontopathic bacteria. J. Perio. Res. 28:473-474 PMID: 8263716
19. Rao V, **Progulske-Fox A** (1993) Development of a genetic system for *Eikenella corrodens*: transfer of plasmids pFM 739 and pLES 2. Plasmid 30:289-295 PMID: 8302938
20. Tønjum T, Weir S, Bøvre K, **Progulske-Fox A** (1993) Sequence divergence in two tandemly located pilin genes of *Eikenella corrodens*. Infect. and Immun. 61:1909-1916 PMID: PMC280783
21. Lepine G, LaCroix J, Walker C, **Progulske-Fox A** (1993) Sequencing of a *tetQ* gene isolated from *Bacteroides fragilis* 1126. Antimicrob. Agents Chemo. 37:2037-2041 PMID: PMC188119
22. Dusek DM, **Progulske-Fox A**, Brown TA (1994) Systemic and mucosal immune response in mice orally immunized with an attenuated *Salmonella typhimurium* vaccine expressing a cloned *Porphyromonas gingivalis* hemagglutinin. Infect. and Immun. 62:1652-1657 PMID: PMC186378
23. Dusek DM, **Progulske-Fox A**, Brown TA (1995) Expression and immunogenicity of a cloned *Porphyromonas gingivalis* hemagglutinin in *Salmonella typhimurium*. Adv. Exp. Med. Biol. 371B:1119-1121 PMID: 7502765
24. Lepine G, Savett D, **Progulske-Fox A** (1995) Restriction fragment length polymorphism analysis of two hemagglutinin loci, *hagA* and *hagB*, serotyping and agglutinating ability of *Porphyromonas gingivalis* isolates. Oral Microbiol. and Immunol. 10:1-7 PMID:7644268
25. **Progulske-Fox A**, Tumwasorn S, Whitlock J, Lepine G, Savett D, Ferretti JJ, Banas J (1995) The cloning, expression and sequence of a second *Porphyromonas gingivalis* gene which codes for a protein involved in hemagglutination. Oral Microbiol. Immunol. 10:311-318 PMID: 8596675
26. Lepine G, **Progulske-Fox A** (1996) Duplication and differential expression of hemagglutinin genes in *Porphyromonas gingivalis*. Oral Microbiol. Immunol. 11:65-78 PMID: 8941757
27. Lepine G, Ellen RP, **Progulske-Fox A** (1996) Construction and characterization of three hemagglutinin mutants of *Porphyromonas gingivalis*. Infect. Immun. 64:1467-1472 PMID: PMC173946

28. Barkocy-Gallagher G, Han N, Patti J, **Progulske-Fox A**, Lantz M (1996) Analysis of the *prt P* gene encoding porphypain, a cysteine proteinase of *Porphyromonas gingivalis*. J. Bacteriol. 178:2734-2741 PMID: PMC178006
29. Han N, Whitlock J, **Progulske-Fox A** (1996) The hemagglutinin gene A (*hag A*) of *Porphyromonas gingivalis* 381 contains four large, contiguous, direct repeats and is a central gene of a multigene family in *P. gingivalis* species. Infect and Immun. 64:4000-4007 PMID: PMC174329
30. Lee S-W, Hillman JD, **Progulske-Fox A** (1996) The hemagglutinin genes *hagB* and *hagC* of *Porphyromonas gingivalis* are transcribed *in vivo* as shown by use of a new expression vector. Infect. and Immun. 64:4802-4810 PMID: PMC174448
31. Han N, Lepine G, Whitlock J, Wojciechowski L, **Progulske-Fox A** (1998) The *Porphyromonas gingivalis* prtP/kgp homologue exists as two open reading frames in strain 381. Oral Dis. 4:170-179 PMID: 9972167
32. Dorn BR, Leung K-P, **Progulske-Fox A** (1998) Invasion of Human Oral Epithelial Cells by *Prevotella intermedia*. Infect. Immun. 66:6054-6057 PMID: PMC108773
33. Kozarov E, Whitlock J, Dong J, Carrasco E, **Progulske-Fox A** (1998) The number of HArep repeats in *hagA* is variable among *Porphyromonas gingivalis* strains. Infect. Immun. 66:4721-4725 PMID: PMC108580
34. Dorn B, Dunn WA, **Progulske-Fox A** (1999) Invasion of Human Coronary Artery Cells by periodontal pathogens. Infect. Immun. 67:5792-5798 PMID: 10531230
35. **Progulske-Fox A**, Kozarov E, Dorn B, Dunn W, Burks J, Wu Y (1999) *Porphyromonas gingivalis* virulence factors and invasion of cells of the cardiovascular system. J. Periodont. 34:393-399 PMID: 10685367
36. Kozarov E, Miyashita N, Burks J, **Progulske-Fox A** (2000) Expression and immunogenicity of hemagglutinin A from *Porphyromonas gingivalis* in an avirulent *Salmonella enterica* Serovar *typhimurium* avirulent vaccine strain. Infect. Immun. 68:732-739 PMID: PMC97199
37. Dorn B, Burks J, Seifert K, **Progulske-Fox A** (2000) Invasion of endothelial and epithelial cells by strains of *Porphyromonas gingivalis*. FEMS Micro Let. 187:139-144 PMID: PMC96956
38. Handfield M, Brady LJ, **Progulske-Fox A**, Hillman JD (2000) A novel method to select for bacterial genes induced specifically in human infections. Trends Microbiol., 8:336-339.
39. Kohler JJ, Pathangey L, Hasona A, **Progulske-Fox A**, Brown TA (2000) Long-term immunological memory induced by recombinant oral *Salmonella* vaccine vectors. Infect. Immun. 68:4370-4373 PMID: PMC101775
40. Dorn BR, Dunn WA, **Progulske-Fox A** (2001) *Porphyromonas gingivalis* traffics to autophagosomes in Human Coronary Artery Endothelial Cells. Infection and Immunity. 69: 5698-5708 PMID: PMC98686
41. Levine M, **Progulske-Fox A**, Denslow ND, Farmerie WG, Smith DM, Swearingen WT, Miller FC, Liang Z, Roe BA, Pan HQ (2001) Identification of lysine decarboxylase as a mammalian cell growth inhibitor in *Eikenella corrodens*: possible role in periodontal disease. Microbial Pathogens. 30:179-192 PMID: 11312612

42. Van Tilburg ML, Kozarov EV, **Progulske-Fox A**, Brady LJ (2001) The effect of monoclonal antibody and route of immunization on the humoral immune response against *Porphyromonas gingivalis*. Oral Microbiol Immunol. 16:153-162 PMID: 11358537
43. Dorn BR, Harris LJ, Wujik CT, Vertucci FJ, **Progulske-Fox A** (2002) Invasion of vascular cells in vitro by *Porphyromonas endodontalis*. Intern. Endo. J. 35:366-371 PMID: 12059938
44. Dorn BR, Dunn WA, **Progulske-Fox A** (2002) Bacterial Interactions with the autophagic pathway. Cellular Microbiology 4:1-10.
45. Wu Y, Lee SW, Hillman JD, **Progulske-Fox A** (2002) Identification and testing of *Porphyromonas gingivalis* virulence genes using a pPGIVET system. Infect. Immun. 70:928-937 PMID: PMC127698.
46. Song YH, Kozarov EV, Walters SM, Cao SL, Handfield M, Hillman JD, **Progulske-Fox A** (2002) Genes of periodontopathogens expressed during human disease. Ann Periodontol 7:38-42 PMID: 16013215
47. Hang L, Manohar J, Muhammad A, Bridges EA, Vanderspurt C, Kirn TJ, Taylor RK, Hillman JD, **Progulske-Fox A**, Handfield M, Ryan ET, Calderwood SB (2003) Use of *in vivo*-induced antigen technology (IVIAT) to identify genes uniquely expressed during human infection with *Vibrio cholerae*. PNAS 100:8508-8513 PMID: PMC166259
48. Cheng SL, Clancy CJ, Checkley MA, Handfield M, Hillman JD, **Progulske-Fox A**, Lewin AS, Fidel PL, Nguyen MH (2003) Identification of *Candida albicans* genes induced during thrush offers insight into pathogenesis. Mol. Microbiol. 48:1275-1288 PMID: 12787355
49. Kim YR, Lee SE, Kim CM, Kim SY, Shin EK, Chung SS, **Progulske-Fox A**, Hillman JD, Handfield M, JH Rhee (2003) Characterization of pathogenic significance of *Vibrio vulnificus* antigens preferentially expressed in septicemic patients. Infect. Immun. 71:5461-5471 PMID: PMC201039
50. Cao, SL, **Progulske-Fox A**, Hillman, JD, Handfield M (2004) *In vivo* induced antigenic determinants of *Actinobacillus actinomycetemcomitans*. FEMS Microbiol. Lett. 237: 97-103 PMID: PMC201039
51. Cwikla SJ, Bélanger M, Giguère S, **Progulske-Fox A**, Vertucci FJ (2004) Dentinal tubule disinfection using three calcium hydroxide formulations. Journal of Endodontics 2005; 31:50-52 PMID: 15614007
52. Kozarov EV, Dorn BR, Shelburne CE, Dunn WA, **Progulske-Fox A** (2005) Human atherosclerotic plaque contains viable *Actinobacillus actinomycetemcomitans* and *Porphyromonas gingivalis*. Arterioscler Thromb Vasc Biol. 3:e17-18 PMID: 15662025
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113. Lipid rafts contribute to invasion of HCAEC by *Porphyromonas gingivalis*. M Bélanger, H Nasajpour, **A Progulske-Fox**. 83rd General Session & Exhibition of the International Association for Dental Research, 2005.
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116. Functional analysis of LuxS regulated protein. L Yuan, **A Progulsk-Fox**. 83rd General Session & Exhibition of the International Association for Dental Research, 2005.
117. Hemagglutinin A participates in adhesion and invasion of HCAEC. H Song, E Kozarov, M Bélanger, **A Progulsk-Fox**. 83rd General Session & Exhibition of the International Association for Dental Research, 2005.
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119. *Porphyromonas gingivalis* PG0686/PG1286 gene expression during invasion of HCAEC. V. Harris, P. Rodrigues, M. Bélanger, **A Progulsk-Fox**. Annual Meeting & Exhibition of the American for Association Dental Research/Canadian Association for Dental Research, 2006.
120. *Porphyromonas gingivalis* can enter Human Endothelial Cells using caveolae. M. Bélanger, H. Nasajpour, **A Progulsk-Fox**. Annual Meeting & Exhibition of the American for Association Dental Research/Canadian Association for Dental Research, 2006.
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123. Effects of *Porphyromonas gingivalis* Gingipains on junctional proteins and cell death of Human Endothelial Cells. K Totten, W Dunn, **A Progulsk-Fox**. 106th General Meeting of the American Society for Microbiology, 2006.
124. Analysis of a Band7/MEC-2 family mutant of *Porphyromonas gingivalis*. SM Walters, M Handfield, **A Progulsk-Fox**. 106th General Meeting American Society for Microbiology, 2006.
125. Defensin-attenuated cytokine responses to *Porphyromonas gingivalis* HagB in dendritic cells. LC Pingel, KK Burnell, X Lu, M Bélanger, **A Progulsk-Fox**, Z Kurago, and KA Brogden. 84th General Session & Exhibition of the International Association for Dental Research, 2006.
126. A model of pregnancy outcomes for *Porphyromonas gingivalis* infections. M Bélanger, L Reyes, K von Deneen, J Whitlock, J Stevens, **A Progulsk-Fox**, MB Brown. 85th General Session & Exhibition of the International Association for Dental Research, 2007.
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132. Invasion of human coronary artery endothelial cells by *Streptococcus mutans*. J Abranches, L Zeng, M Belanger, PH Rodrigues, D Akkin, WA Dunn, A Progulske-Fox, R Burn. 86th General Session & Exhibition of the International Association for Dental Research, 2008.
133. *Porphyromonas gingivalis* activates human coronary artery endothelial cells during invasion. A Fetner, PH Rodrigues, M Belanger, **A Progulske-Fox**. 37th Annual Meeting and Exhibition of American Association for Dental Research, 2008.
134. Adhesion of *Porphyromonas gingivalis* mutants and wild-type strains to HCAEC. G Palsis, M Belanger, PH Rodrigues, A Progulske-Fox. . 37th Annual Meeting and Exhibition of American Association for Dental Research, 2008.
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139. Characterization of a putative α -Amylase (PG1683) of *Porphyromonas gingivalis*. J Rainho, PH Rodrigues, M Bélanger, **A Progulske-Fox**. 87th General Session & Exhibition of the International Association for Dental Research, 2009.
140. HBD3-induced murine cytokine responses to *Porphyromonas gingivalis* and rHagB. K Kohlgraf, K Yohnke, M Bélanger, **A Progulske-Fox**, KA Brogden. 41st Midwest Student Biomedical Research Forum, 2010.
141. *Porphyromonas gingivalis* mutant PG0717 is defective in activation of autophagy. PH Rodrigues, M Bélanger, D Akin, A Barrett, W Dunn Jr., **A Progulske-Fox**. 110th Meeting of the American Society for Microbiology, 2010.
142. A *P. gingivalis* secreted effector induces autophagy in Saos-2 cells. **A Progulske-Fox**, MV Ortiz, DE Akin, WA Dunn. 88th General Session & Exhibition of the International Association for Dental Research, 2010.
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147. HBD3 attenuates or enhances the murine pro-inflammatory cytokine response to *Porphyromonas gingivalis* HagB: it's all in the timing. K Kohlgraf, M Bélanger, **A Progulske-Fox**, and KA Brogden. Gordon Research Conference on Antimicrobial Peptides, 2011.
148. Collagen binding protein, Cnm, is required for *Streptococcus mutans* OMZ175 invasion of Human Gingival Fibroblasts (HGF-1). EM Sampson, J Abranches, **A Progulske-Fox**. Annual Meeting of the Florida Branch of the American Society for Microbiology, 2010.
149. *Streptococcus mutans* Cnm protein facilitates invasion of smooth muscle cells. EM Sampson, J Abranches, **A Progulske-Fox**. Rochester Conference on Oral Biology: Post Genomics for the Oral Microbiome, 2011.
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151. *Porphyromonas gingivalis* mutant PG0242 is defective in growth and virulence. A Barrett, P H Rodrigues, M Bélanger, D Akin, WA Dunn Jr, **A Progulske-Fox**. 111th Meeting of the American Society for Microbiology, 2011.
152. Ferritin enhances intracellular survival of *Porphyromonas gingivalis* in Human Coronary Artery Endothelial Cells. A Reyes, A Chadda, P Rodrigues, M Bélanger, WA Dunn Jr, SM Wallet, **A Progulske-Fox**. University of Florida, College of Dentistry Research Day, 2011.
153. Collagen binding protein, Cnm, facilitates *Streptococcus mutans* OMZ175 invasion of oral and cardiovascular tissues. EM Sampson, J Abranches, **A Progulske-Fox**. University of Florida, College of Dentistry Research Day, 2011.
154. Discovery, The Oral/Systemic Connection: Cardiovascular Disease. **A Progulske-Fox**. Invited lecture – Transforming Women's Health: Creating a New Paradigm through Discovery, Development, and Delivery. January 2012
155. Outer membrane vesicles from *Porphyromonas gingivalis* stimulate autophagy in human cells in a manner similar to intact bacteria. E McManis, D Akin, WA Dunn, Jr, **A Progulske-Fox**. University of Florida, College of Dentistry Research Day, 2011.
156. HBD3 inhibits *Porphyromonas gingivalis* rHagB binding to dendritic cells. J Van Hemert, E Recker, K Walters, **A Progulske-Fox**, KA Brogden. University of Iowa College of Dentistry Research Day, 2012.
157. HBD3-enhanced *Porphyromonas gingivalis* rHagB cytokine responses in dendritic cells. L Harvey, K Brogden, **A Progulske-Fox**. University of Iowa College of Dentistry Research Day, 2012.

158. PG0242 and the cobalamin biosynthesis pathway in *Porphyromonas gingivalis*. A Barrett, PH Rodrigues, M Bélanger, D Akin, WA Dunn, **A Progulske-Fox**. Annual Meeting of the American Association of Dental Research, 2012.
159. Identification of *Porphyromonas gingivalis* sRNA in response to hemin availability. P Phillips, **A Progulske-Fox**, NA Grieshaber. Spring Synergy Research Day, University of Florida, 2012.
160. Outer Membrane Vesicles from *Porphyromonas gingivalis* Stimulate Autophagy in Human Cells in a Manner Similar to Intact Bacteria. E Eiler-McManis, D Akin, WA Dunn, Jr., **A Progulske-Fox**. 112th Meeting of the American Society for Microbiology, 2012.
161. Expression Profile of *Porphyromonas gingivalis* sRNA in Response to Environmental Cues Identified Using Illumina's High-Throughput Sequencing Technology. PL Phillips, **A Progulske-Fox**, NA Grieshaber. 112th Meeting of the American Society for Microbiology, 2012.
162. Gene Expression Changes of Human Coronary Artery Endothelial Cells in Response to *S. mutans* OMZ175 Invasion. EM Sampson, PL Phillips, MC Lopez, HV Baker, **A Progulske-Fox**. 112th Meeting of the American Society for Microbiology, 2012.
163. HBD3 both enhances, attenuates dendritic cell cytokine responses to HagB. EN Recker, L Harvey, M Raina, S Radhakrishnan, SA Prasad, R Vidva, **A Progulske-Fox**, JE Cavanaugh, S Vali, KA Brogden. 91st General Session & Exhibition of the International Association for Dental Research, 2013.
164. A PG0717 Deletion Mutant of *Porphyromonas gingivalis* W83 Strain Displays Increased Induction of Host Pro-inflammatory Signaling. RP Chastain-Gross, L Reyes, PH Rodrigues, EM Phillips, S Dholakia, HA Diffe, KA Brogden, RP Darveau, E Eiler-McManis, and **A Progulske-Fox**. American Society for Microbiology, 2013.
165. A PG0717 Deletion Mutant of *Porphyromonas gingivalis* W83 Strain Displays Increased Induction of Host Pro-inflammatory Signaling. RP Chastain-Gross, L Reyes, PH Rodrigues, EM Phillips, S Dholakia, HA Diffe, KA Brogden, RP Darveau, E Eiler-McManis, and **A Progulske-Fox**. American Society for Microbiology, Florida Chapter, 2013.
166. A PG0717 Deletion Mutant of *Porphyromonas gingivalis* W83 Strain Displays Increased Induction of Host Pro-inflammatory Signaling. RP Chastain-Gross, L Reyes, PH Rodrigues, EM Phillips, S Dholakia, HA Diffe, KA Brogden, RP Darveau, E Eiler-McManis, and **A Progulske-Fox**. University of Florida College of Dentistry Spring Synergy, 2013.
167. *Porphyromonas gingivalis* Traffics through Icam-1 in Human Microvascular Endothelial Cells. L Reyes, WA Dunn, **A Progulske-Fox**. 93rd General Session & Exhibition of the International Association for Dental Research, 2015.

PATENTS

US Patent No. 8,703,436. Identification of *Porphyromonas gingivalis* Virulence Polypeptides for Diagnosis, Treatment, and Monitoring of Periodontal Diseases. Issued April 22, 2014

US Patent No. 7,981,631. Identification of *Actinobacillus actinomycetemcomitans* Antigens for Use in the Diagnosis, Treatment, and Monitoring of Periodontal Diseases. Issued July 19, 2011

US Patent No. 7,851,171. Identification of *Actinobacillus actinomycetemcomitans* Antigens for Use in the Diagnosis, Treatment, and Monitoring of Periodontal Diseases (DIV). Issued December 14, 2010

US Patent No. 7,838,259 Genes of *Porphyromonas gingivalis* W83 involved in Invasion of Human Cells. Issued November 23, 2010

US Patent No. 7,416,852. Identification of *Porphyromonas gingivalis* Virulence Polynucleotides for Diagnosis, Treatment, and Monitoring of Periodontal Disease. Issued August 26, 2008

US Patent No. 7,498,143. Identification of *Actinobacillus actinomycetemcomitans* Antigens for use in the Diagnosis, Treatment, and Monitoring of Periodontal Diseases. Issued March 3, 2009

US Patent Nos. 5,824,791 and 5,830,710. Cloned *Bacteriodes gingivalis* Genes and Probes for the Detection of Periodontal Diseases. Expired November 3, 2006 and October 20, 2006, respectively.

US Patent Application No. 601/147,551. Microbial Polynucleotides Expressed During Infection of a Host.

Patent Application PCT/US02/13590 Methods and Compositions for Angioproliferative Disorder Treatment. Nationalized 5/2/2002

Patent Application No. 601/496,819. *Vibrio cholera* Proteins Expressed During Infection.

CURRENT RESEARCH GRANT AWARDS

National Institutes of Health

1. R01 HL126956-01 National Institutes of Health, NIH/NHLB, *P. gingivalis* Mediated Disruption of Autophagy in Endothelial Dysfunction (A Progulske-Fox, PI), \$1,292,667, 04/01/15 – 03/31/19

PENDING RESEARCH GRANT AWARDS

None

COMPLETED AND OTHER GRANTS AWARDED

1. R21 DE 022690-01A1, National Institutes of Health, NIH/NIDCR, Internalization of *S. mutans* in vascular endothelial cells (A Progulske-Fox, PI) \$275,000, 07/01/13 – 06/30/16
2. R01 DE020820-01A1, National Institutes of Health, NIH/NIDCR, Periodontal Pathogens and Cardiovascular Disease (K Lakshmyya, PI; A Progulske-Fox, Co-I) \$1,250,000, 03/01/11 – 02/28/16
3. ASPIRE Research Award, US Rheumatology and Dermatology, Department of Defense, Oral Metagenomic Biomarkers in Rheumatoid Arthritis Patients (A Progulske-Fox, Co- PI), \$102,255, 12/02/2015 – 02/14/2017
4. R56 HL122140-01A1, National Institutes of Health, NIH/NHLBI, *P. gingivalis* Mediated Disruption of Autophagy in Endothelial Dysfunction (A Progulske-Fox, PI) \$327,380, 09/01/14 – 04/30/15
5. J. Hillman Innovation Award, University of Florida, College of Dentistry, *Porphyromonas gingivalis* Secreted Factors as a Treatment (A Progulske-Fox, PI) \$15,000 6/1/11 – 5/31/13

6. University of Florida, Opportunity Fund Award, Association Between Periodontitis & Rheumatoid Arthritis (K Lakshmyya, PI; A Progulsk-Fox, Co-PI) \$82,000, 6/1/11 – 5/31/13
7. University of Florida, College of Dentistry, Office of Research, *S. mutans* and Atherosclerosis (A Progulsk-Fox, P; K Lakshmyya, Co-PI) \$10,000, 6/15/09 – 2/10/13
8. R01DE016715-05, National Institutes of Health, NIH/NIDCR, Epithelium-Microbe Interactions Dissected with Arrays (A Progulsk-Fox, PI) \$265,256, 02/21/06 – 01/31/13.
9. R01DE013545-09S1, National Institutes of Health, NIDCR, ARRA Supplement to Interactions of Oral Pathogens in Vascular Cells (A Progulsk-Fox, PI; WA Dunn, Jr., Co-Investigator) \$136,727, 09/22/09 – 08/31/12
10. R01DE013545-07S1, National Institutes of Health, NIDCR, Supplement to Interactions between Oral Pathogens and Vascular Cells (A Progulsk-Fox, PI; M Bélanger, Co-PI), \$225,000, 04/01/07-03/31/12
11. R01DE013545-10, National Institutes Health, NIDCR, NIHLB, Interactions of Oral Pathogens in Vascular Cells (A Progulsk-Fox, PI; WA Dunn, Jr., Co-Investigator), \$1,795,181, 03/01/06 – 02/28/13
12. 26. University of Florida, College of Dentistry, Office of Research, Periodontal Bacterial Infection Induced Periodontal Disease and Cardiovascular Disease (A Progulsk-Fox, PI; K Lakshmyya, Co-PI) \$10,000, 6/8/09-10/01/11
13. PD30531-SC101139, Virginia Commonwealth University, Subaward to NIH, NIDCR ARRA Supplement R21DE019005 entitled Small Non-Coding RNAs in *Porphyromonas gingivalis* (A Progulsk-Fox, subrecipient PI) \$47,667, 09/17/09 – 8/31/11
14. R21DE018006-01A1, National Institutes of Health, NIDCR, Invasion–Associated Bacterial Polymorphisms (A Progulsk-Fox, PI; E. Kozarov, Co-PI), \$275,000, 04/23/08- – 03/31/12
15. R21DE018118-01A1, National Institutes of Health, NIDCR, Bacterial Clonality and Risk for Periodontitis (A Progulsk-Fox, PI; E. Kozarov, Co-PI), \$275,000, 08/01/2007 – 07/31/09
16. University of Florida, College of Dentistry, Office of Research, Multi-Investigator Pilot Program Project Grant. *Porphyromonas gingivalis* and Pre-term Delivery (A Progulsk-Fox, PI) \$100,000, 4/1/07 – 3/31/09.
17. 1R13DE018364-01, National Institutes of Health, NIDCR, Oral Immunology/Microbiology Research Annual Meeting (A Progulsk-Fox, P.I) \$17,214, 01/01/07 – 12/31/07.
18. 5R01DE013957-05, National Institutes Health, NIDCR *In Vivo* Induced Antigen Technology for Analysis of *Porphyromonas gingivalis* (A Progulsk-Fox, PI) \$1,307,479, 6/01/02 – 04/30/07.
19. National Institutes Health, NICDR, NIHLB, Interactions Between Oral Pathogens and Vascular Cells (A Progulsk-Fox, PI) \$1,856,175, 12/01/00 – 11/30/05
20. National Institutes of Health, NIDCR, Surface Antigens of Oral Bacteroides Species (A Progulsk-Fox, PI) \$1,444,326, 6/01/01 – 2/28/06
21. National Institutes of Health, NIDCR, Oral Immunology/Microbiology Research Annual Meeting (A Progulsk-Fox, PI) \$14,801, 12/15/05 – 11/30/06
22. National Institutes of Health, NIDCR, Oral Immunology/Microbiology Research Annual Meeting (A Progulsk-Fox, PI) \$13,265, 12/01/04 – 11/30/05.

23. National Institutes Health, NIDCR, Oral Immunization with *P. gingivalis* Virulence Antigens (T. Brown, PI; A Progulske-Fox, Co-investigator) 06/01/00 – 05/31/05.
24. National Institutes Health, NICDR, NIHHLB, Interactions between Oral Pathogens and Vascular Cells (A Progulske-Fox, PI) \$1,153,232, 12/01/99 – 2/28/04.
25. National Institutes of Health, NIDCR, Identifying Candida Genes in Thrush Using IVIAT (A Progulske-Fox, Collaborator) 09/29/00 – 09/28/04.
26. National Institutes of Health, NIDCR, Small Bioeffector Molecules of *Streptococcus mutans* (A Progulske-Fox, PI) \$1,168,660, 7/01/98 – 6/30/02.
27. National Institutes of Health, NIDR, Training Grant in Oral Biology (A. Bleiweis, PI; Progulske-Fox, Co-I), \$646,731, 9/30/95 – 6/30/00.
28. National Institutes of Health, NIDR, Immunodominant Stress Proteins of *P. gingivalis*, (D. Lopatin, PI; A Progulske-Fox, subcontract PI), Subcontract \$108,368, 4/1/97-3/31/20.
29. National Institutes of Health, NIDR, Oral Immunization with *P. gingivalis* Virulence Antigens (T A Brown, PI; A Progulske-Fox, Co-I) \$616,747, 4/1/96 – 3/31/99.
30. National Institutes Health, NIDR, NIAID, Isolation and Testing of *P. gingivalis* Virulence Genes, (A Progulske-Fox, Co-PI; J Hillman, Co-PI), \$1,521,819, 8/1/95 – 7/31/99.
31. National Institutes of Health, NIDR, Adherence of Periodontal Disease-Associated Bacteria (K. Leung, PI; A Progulske-Fox, Co-I), \$529,332, 8/1/95-7/30/98.
32. National Institutes Health, NIDR, Development of an IVET system for *Actinobacillus actinomycetemcomitans*, (A Progulske-Fox, Co-PI; J Hillman, Co-PI), \$50,000, 2/1/97 to 7/31/98.
33. National Institutes of Health, NIDR, Career Development Award, Surface Antigens of Oral Bacteriodes Species (A Progulske-Fox, PI), \$349,000, 4/01/92 – 3/31/97.
34. National Institutes of Health, NIDR, Institutional Research Service Award in Oral Biology, \$1,205,900, 9/30/90 – 9/29/95.
35. National Institutes of Health, NIDR, Antibiotic Susceptibilities of Periodontal Bacteria, (C Walker, PI; A Progulske-Fox, Co-I), \$882,775, 4/89-3/94.
36. National Institutes Health, NIDR, Periodontal Disease Research Center, (WB Clark, PI; A Progulske-Fox, Co-I), 20% effort, \$3,021,926, 4/15/88 – 4/14/95.
37. 3M Company Award for Research in Oral Microbiology, \$3,000, 1995.