
Curriculum Vitae, John Robert Klein

Name: John R. Klein, PhD
Present Title: Professor of Immunology
Address: Department of Diagnostic and Biomedical Sciences
University of Texas Health Science Center at Houston
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Citizenship: United States
Undergraduate: Elmhurst College; Elmhurst, IL BA, 1971
Graduate Education: Johns Hopkins University
Baltimore, MD PhD, 1980

Postgraduate Training:

Postdoctoral Fellow 6/1980 - 8/1981
Department of Microbiology
University of Pennsylvania School of Medicine
Philadelphia, PA.

Postdoctoral Fellow 9/1981 - 9/1983
Department of Biology & Center for Cancer Research
Massachusetts Institute of Technology
Cambridge, MA, and the Department of Immunology
Scripps Clinic and Research Foundation, La Jolla, CA.

Academic Appointments:

Assistant Research Immunologist 10/1983 - 8/1987
Department of Medicine
University of California San Diego, La Jolla, CA.

Assistant Professor of Immunology 9/1987 - 9/1989
Department of Biological Science
University of Tulsa, Tulsa, OK.

Associate Professor of Immunology (with tenure) 9/1989 - 5/2000
Department of Biological Science
The University of Tulsa, Tulsa, OK

Associate Professor 6/2000
Department of Basic Sciences,
Dental Branch, The University of Texas Health
Science Center at Houston.

Professor (with tenure) 4/2001 - present

Department of Diagnostic and Basic Sciences,
School of Dentistry, The University of Texas Health
Science Center at Houston

Professional Organizations and Committees:

American Association of Immunologists
Society for Mucosal Immunology
American Association for the Advancement of Science
Federation of American Societies for Experimental Biology

Honors and Awards:

2015, University of Texas Health Science Center School of Dentistry, Dean's
Excellence Award for the Scholarship of Discovery.

1999, Mentor for Matthew D. Armstrong: Award for Best Student Research;
16th Annual Research Colloquium; University of Oklahoma Health Sciences
Center at Tulsa, 1999, and recipient of Goldwater Scholarship.

1999, Award for Best Faculty Research; 16th Annual Research Colloquium;
University of Oklahoma Health Sciences Center at Tulsa.

1999, Phi Kappa Phi Honor Society.

2003, Interviewed in Science News 164:261-262.

1998, Interviewed in 'Research News' for article on extrathymic T cell
development, Williams, N.: T cells on the mucosal frontline. Science 280:198-
200.

1990, Research Award of the Crohn's and Colitis Foundation of America, Tulsa.

1989-91, Oklahoma Health Research Committee; Appointed by Gov. Henry
Bellmon.

1986-87, Research Career Development Award; National Foundation for Ileitis
& Colitis.

Editorial positions (current and past):

2015-present, *Scientific Reports*, Editorial Board

2006-present, *Developmental and Comparative Immunology*, Editorial Board

2005-present, *Critical Immunology Reviews*, Editorial Board

2010-2014, *The Open Immunology Journal*, Editor-in-Chief

2004-2006, *Journal of Immunology*, Associate Editor

Ad-Hoc Reviewer (40 total):

Allergy

American Journal of Pathology

American Journal of Physiology-Cell Physiology

American Journal of Physiology-Lung Cellular and Molecular Physiology

Blood

Cellular Immunology

Chemico-Biological Interactions

Current Reviews in Immunology
Expert Review in Clinical Immunology
Gastroenterology
Gene
Genomics
Gut
Immunology Today
International Journal of Sports Medicine
International Immunology
International Journal of Experimental Pathology
International Journal of Immunopathology and Pharmacology
International Research Journal of Medicine and Medical Sciences
Journal of Applied Oral Science
Journal of Endocrinology
Journal of Experimental Medicine
Journal of Genetics Genomics
Journal of Infectious Disease
Journal of Immunological Methods
Journal of Innate Immunity
Journal of International Pathology and Clinical Research
Journal of Oral Sciences
Journal of Periodontology
Mucosal Immunology
Nature Molecular Page Signaling Pathway
Plos One
Proceeding of the National Academy of Sciences (USA)
Protein Expression and Purification
Regional Immunology
Science
Scientific Reports
Signal Transduction
Urology
Vision Research

National Grant Review Panels, Study Sections and Advisory Committees:

2015, NIH ZRG1 IMM-D Special Emphasis Study Section
2010, NIH III-Study Section
2004, 2002, NIH/NIDDK, P01 Special Emphasis Panel
2000, NIH Immunological Sciences Study Section (Ad hoc)
1998, NIH Multidisciplinary Sciences Special Review Panel
1999, 1997, Wellcome Foundation Grant Review
1993, NIH/NIAID, Study Section/Special Review Committee
1993, NIH/NIDDK, Study Section/Special Review Committee
1993, Developmental Biology Study Section, American Cancer Society
1995-99, 1992, 1985, Research Advisory Group, Veteran's Administration
1992, Cell Biology Program, National Science Foundation

University of Texas Health Science Center Committees:

2008, Mucosal immunologist Search Committee; IMM
2004-05, Research Advisory Panel
2001-02, Research Task Force

University of Texas Health Science Center Committees, including Dentistry:

2016-17, Appointment, Promotion, and Tenure Committee, UTSD, Chair
2016-17, University Appointment, Promotion, and Tenure Committee, review member
2015-16, Appointment, Promotion and Tenure Committee, UTSD, Vice-Chair
2014-15, Appointment, Promotion and Tenure Committee, UTSD member
2012, Member, Department of Diagnostic & Biomedical Sciences Search Committee
2012, Chair, Craniofacial Research Search Committee
2012, Basic Science Curriculum Committee, SOD
2012, Promotion file review, Dr. Jeremy S. Schaefer, SOD
2012, Chair, discussion of candidates for promotion in Diag & Basic Sciences, SOD
2007, Faculty promotion file review: Dr. Rade Paravina
2007, Chair, Grant Review Committee, Pathology Service Grant Funding
2006, Faculty promotion file review: Dr. Peter Yang
2000-11, Research Committee, Dental Branch
2011, Biomedical Science Curriculum Workshop
2001-02, Chair, Research Committee
2000-01, Pharmacology Search Committee, Dept. Basic Sci, Dental Branch
2001, Student Summer Grant Review Committee, Dental Branch
2001-02, Clinical scientists Committee
2001-02, Basic Scientist Search Committee
2001-02, Stomatology Search Committee

Non-University of Texas Health Science Center Service:

2012, Promotion review, Dr. R. Lee Mosley, University of Nebraska School of Medicine

Community Service:

1990-96, Vice-President for Professional Education; Crohn's and Colitis Foundation of America; Tulsa Chapter
1989, Organizer; Crohn's and Colitis Foundation of America/Department of Biology Open House; Tulsa, OK
1987-96, Member, Board of Trustees, Crohn's and Colitis Foundation of America; Tulsa Chapter

Sponsorship of Candidates for Pre and Postdoctoral Degrees:

Undergraduate Senior Research (University of Tulsa)
1997-2000, Mathew Armstrong; independent study

1997-98, Shannon Case; Thesis title: *Neuroendocrine Regulation of Bone Marrow Hematopoietic Cell Development*.

1995-96, Tawnya Henderson; Thesis title: *Role of the Thymus in Extrathymic Intestinal Intraepithelial Lymphocyte Development*.

Undergraduate Summer Research (UT Dental Branch)

2008, Katy Jones

2006-08, Sanaz Ekhlassi

2006, Shaun Varghese

2005, Leslie Scruggs

2004, Kevin McGrory

2002-03, Kevin Otten

Predoctoral:

1996, Jin Wang, PhD awarded; Dissertation title: *Neuroendocrine Involvement in the Development and Expression of the Intestinal Intraepithelial Lymphocyte T Cell Repertoire*.

1995, Mawieh Hamad, PhD awarded; Dissertation title: *Characterization of the Extrathymic Pathway of Murine Intestinal Intraepithelial Lymphocyte (IEL) Development*.

1992, R. Lee Mosley, PhD awarded; Dissertation title: *Murine Intestinal Intraepithelial Lymphocytes (IEL): Phenotypic, Functional, and Developmental Complexity*.

Sponsorship of Postdoctoral Fellows:

2007-08, Jeremy Schaefer, PhD; UT-Dental Branch

2001-02, Qin Zhou, DDS, PhD; UT-Dental Branch

2000-02, Heuy-Ching Wang, PhD; UT-Dental Branch

1997-98, Jin Wang, PhD; University of Tulsa

1998-2000, E. Umit Bagriacik, PhD; University of Tulsa

Thesis and Supervisory Committees and Mentorships:

2017, New Investigator Development Program Mentor, Dr. Lavia Lakschevitz

2016, New Investigator Development Program Mentor, Dr. Lincoln Edwards

2007, Jennifer Chang, UTDB Master's thesis committee

2004, Jenny Chen, MS Student, UT Dental Branch

2004, Mary Anne Connelly, MS student, UT Medical School, Houston, TX

2004, Rachel Moulton, MS student, UT Medical School, Houston, TX

2004, Meenal Sinha, PhD student, UT-IMM, Houston, TX

2004, Tera Guidry, PhD student, UT Medical School, Houston, TX

2002, Member, Master's Thesis committee, Matthew P. Thompson; GSBS, UT-M.D. Anderson Cancer Center

2002, Supervisor (summer research, 2001-02); Kevin Otten, second/third year dental student, UT-Dental Branch

1999, Member, Senior Research Committee, Shannon Case

1996, Member, Master's Thesis Committee, Rubin Dharmraj

1995, Member, Doctoral Dissertation Committee, Tracey Plank

1993, Member, Doctoral Dissertation Committee, Donna Stickney

Current Teaching Responsibilities:

UT-School of Dentistry

Fall Semester, DENF 1511, Oral Biology I; lectures in immunology to 1st year Dental undergraduate students.

Spring Semester, DBPG 1116; lectures in Immunology to Dental Residents in Periodontics, Endodontics, and Prosthodontics.

Past Teaching Responsibilities:

UT School of Dentistry

2001-07, Spring Semester: Course Director for Microbiology and Immunology course; Dental graduate students in endodontics and periodontics.

2000-02, Fall Semester, DENF1551: Two 2-hour lectures in the Microbiology course given to Graduate Dental Students; Dr. Millicent Goldschmidt, Course Director.

2001, 2003, Spring Semester: Immunology, DBGP0502; this is a full semester course in basic cellular and molecular immunology that is currently being taught by myself during the spring semester, 2001.

2001, Spring Semester: Two two-hour lectures in the GSBS Microbiology course; Dr. Millicent Goldschmidt, Course Director.

2002, Spring Semester: one one-hour lecture in the Oral Biology Course; UT-Dental Branch.

2002, Summer, DENU1707; 2 hr. of lecture in immunology and periodontal immunology to 2nd year Dental Undergraduate students in the Integrated Biological Sciences Course.

2001, Summer DENU2991; 2 hr. of lectures in immunology to 2nd year Dental Undergraduate students preparing for board examinations.

Medical School

1980-81, Immunology; (second year Medical Students); Lecture and Laboratory Components; University of Pennsylvania

Undergraduate (University of Tulsa)

1995-2000, Independent Study/Senior Research

1996-2000, Immunology (without lab)

1988-1999, Cell & Molecular Biology

1988-1995, Immunology (with laboratory)

Graduate (University of Tulsa)

Immunology, 1988-2000

Graduate Seminar, 1989, 1990, 1992

Grant Support (including submitted):

NIH/NIAID; AI135293-01; "Is Immune System TSH-beta splice variant a causitive factor in autoimmune thyroiditis?"; 09/01/2017 – 08/31/2019; \$423,500 total cost; \$275,000 total direct cost; Klein, PI (submitted 02/16/2017).

NIH/NIAID; AI133313-01; "The Role of TSH-beta Splice Variant in Health and Disease"; 07/01/2017 - 06/30/2019; \$423,500 total cost; \$275,000 total direct cost; Klein, PI; Impact Score 42.

NIH/NIDDK; DK035566-24-26; "Gut-Derived Immune Effector Cells"; 02/01/2010 – 06/30/2014; \$822,000 total cost; \$548,000 total direct cost; Klein, PI.

NIH/NIAID; AI100159-02 "Immunity in TSH-beta splice variant deficient mice"; 02/13/2012 – 01/31/2015; \$150,000/2years total cost; Klein, PI.

Crohn's and Colitis Foundation of America (CCFA); "MicroRNA regulation of IBD"; 07/01/2012 – 06/30/2015; \$262,164/3years total cost; Klein, Co-investigator.

Mike Hogg Foundation; "Use of stimulated whole saliva as a diagnostic test for detection of renal cell carcinoma"; 05/08/2013 – 05/31/2015; \$17,290; Klein, Co-investigator.

Texas Medical Center Digestive Disease Center; P30 DK056338; Non-coding RNA regulation of IBD genes; 02/01/2013 – 01/31/2014; \$30,000; Klein, Co-investigator.

NIH/HL; HL084594-1-5; "The Novel Approach of RNA Based Therapeutic Technologies"; 2/1/08 – 1/31/12; JRK, Co-investigator.

NIH/NIDDK; 3 RO1 DK 35566-17S1; Sponsor for Research Supplements Grant for Underrepresented Minorities to Dr. Heuy-Ching Wang; \$47,908 total direct cost; 7/02 – 6/03.

Arthritis Foundation; Postdoctoral Fellowship; 10/81-9/84; \$42,000.

National Foundation for Ileitis & Colitis, Inc., Senior Fellowship; 10/83-6/86; \$75,000 total direct cost.

NIH/NIDDK; R23 Research Grant; "Gut-Derived Immune Effector Cells"; 7/85-6/88; \$112,000 total direct cost; JRK principal investigator.

Cancer Research Coordinating Committee (University of California); Research Grant; 7/85-6/86; \$20,000 total direct cost; JRK, principal investigator.

National Foundation for Ileitis, & Colitis, Inc.; Research Career Development Award; 7/86-6/87; \$40,000 total direct cost; JRK, principal investigator.

Academic Senate Grant (University of California); Research Grant 9/86-8/87; \$5,000 total direct cost; JRK, principal investigator.

NIH/NIDDK; R01 Research Grant (years 4-5 of competitive funding); "Gut-Derived Immune Effector Cells"; 7/88-6/90; \$246,000 total direct cost; JRK, principal investigator.

Oklahoma Center for Advancement of Science & Technology; Research Grant; 6/88-5/91; \$88,900 total direct cost; JRK, principal investigator.

Oklahoma Center for Excellence in Molecular Medicine; 9/89-8/90; \$37,500 total direct cost; JRK, principal investigator.

Mervin Bovaird Center for Molecular Biology and Biotechnology; University of Tulsa; 2/93-7/94; \$9,780 total direct cost; JRK, principal investigator.

Oklahoma Center for Advancement of Science & Technology; 6/93-5/96; \$90,000 total direct cost; JRK, principal investigator.

NIH/NIDDK; RO1 Research Grant (years 6-8 of competitive funding); "Gut-Derived Immune Effector Cells"; 7/90-6/93; \$443,495 total direct cost; JRK, principal investigator.

NIH/NIDDK; RO1 Research Grant (years 9-13 of competitive funding); "Gut-Derived Immune Effector Cells"; 7/93-6/98; \$927,360 total direct cost; JRK, principal investigator.

Oklahoma Center for the Advancement of Science and Technology (OCAST); "Endocrine Regulation of Mucosal T Cell Trafficking"; 6/97-5/00; \$105,000 total direct cost; JRK, principal investigator.

R21/NIH/NIAID; 1 R21 AI064378-01; "Role of Intestinal T Cells in Immunity to M. avium"; JRK, PI; 10% time; \$371,250 total cost, 2 years; (not funded).

R21/NIH/NIDCR; 1 R21 DE016691-01; "Periodontal Inflammation in Atherosclerosis"; JRK, PI; 15% time; \$371,250 total cost, 2 years; (not funded).

R21/NIH/NIDCR; 1 R21 DE015829-01; "Role of Gamma-delta T Cells in Oral Tissue Repair"; JRK, PI; 15% time; \$371,250 total cost, 2 years; (not funded).

Presentations:

a. Conference, symposia, or workshop organizer

2003, 2nd Annual UTMB-McLaughlin Symposium in Infection and Immunity

1998, Seminar Coordinator; Department of Biological Science; University of Tulsa

b. Invited presentations at other universities and at professional meetings, conferences and workshops

2013, 15th International Congress of Immunology; Milan, Italy

2004, British Gastroenterology Society; Workshop on Intestinal Immunity; Dublin Ireland

2004, Department of Orthodontics; University of Texas Dental Branch; The University of Texas Health Science Center at Houston; Houston, TX

2003, Department of Immunology; Institute of Molecular Medicine; The University of Texas Health Science Center; Houston, TX

2003, Department of Pathology and Laboratory Medicine; University of Texas Health Science Center at Houston; Houston

2001, Department of Immunology; MD Anderson Cancer Center; Houston, TX

2001, Distinguished Immunology Lecture Series; Department of Microbiology and Immunology; University of Texas Medical Branch; Galveston, TX

2000, Texas Gulf Coast Digestive Disease Center; Baylor College of Medicine; Houston, TX

1999, Beirne B. Carter Center for Immunology Research; University of Virginia School of Medicine; Charlottesville, VA

1999, Department of Gynecology and Obstetrics; Emory University School of Medicine; Atlanta, GA

1998, Department of Microbiology and Immunology; University of Maryland School of Medicine; Baltimore, MD

1998, Department of Microbiology and Immunology; University of Illinois at Chicago; Chicago, IL

1998, Chapman Institute of the Children's Medical Center; Tulsa, OK

1998, 17th Summer Symposium in Molecular Biology; Pennsylvania State University; College Station, PA

1998, Department of Biological Sciences; University of Arkansas; Fayetteville, AK

1997, Department of Microbiology and Immunology; Emory University School of Medicine; Atlanta, GA

1996, The XXVI Annual Meeting of the Japanese Society for Immunology; Yokohama, Japan.

1995, Department of Pathology; University of Massachusetts School of Medicine at Worcester

1995, Texas Regional Immunology Conference; University of Texas Medical Branch; Galveston, TX

1995, Department of Microbiology; University of New Mexico School of Medicine; Albuquerque, NM

1995, Institute for Biotechnology; University of Texas Health Sciences Center; San Antonio, TX

1995, Department of Pathology; University of Utah; Salt Lake City, UT.

1994, Department of Immunology; University of Toronto; Toronto, Canada.

1994, Department of Medical Microbiology and Immunology; University of South Florida; Tampa, FL.

1993, Department of Microbiology and Immunology; University of Arizona School of Medicine and Cancer Center; Tucson, Az.

1993, Departments of Oral Biology and Microbiology; University of Alabama Schools of Dentistry and Medicine; Birmingham, AL.

1992, Department of Comparative and Experimental Pathology; University of Florida; Gainesville, FL.

1992, Department of Microbiology; University of Texas Medical Branch at Galveston; Galveston, TX.

1991, Department of Pathology; Boston University School of Medicine; Boston, MA.

1990, Department of Virology; New York Blood Center; New York, NY.

1990, Department of Molecular Genetics; Alan Chapman Research Institute; Children's Medical Center; Tulsa, OK.

1989, Department of Medicine, Division of Gastroenterology; University of Oklahoma School of Medicine; Oklahoma City, OK.

1989, Department of Biochemistry; University of Oklahoma School of Medicine; Oklahoma City, OK.

1987, Department of Microbiology; University of Maryland School of Medicine; Baltimore, MD.

1987, Department of Immunology; Hospital E. Herriot; Lyon, France.

1987, Department of Microbiology, University of Oklahoma School of Medicine, Oklahoma City, OK.

1987, Department of Microbiology and Immunology; Indiana University School of Medicine; Indianapolis, IN.

1982, Biological Modifiers Program; National Cancer Institute; Frederick, MD.

c. Service as a Panelist or Discussant at Professional Meetings:

2001, World Congress of Immunology; Stockholm, Sweden; (Workshop co-chair).

1996, XXVI Annual Meeting of the Japanese Society for Immunology; Yokohama, Japan, (Invited Workshop Co-chair).

1996, XXVI Annual Meeting of the Japanese Society for Immunology; Yokohama, Japan, (Invited Workshop Co-chair).

1995, 9th International Congress of Immunology; San Francisco, CA; (Invited Workshop Co-chair).

1994, IEL Workshop; Center for the Study of Inflammatory Bowel Disease; Massachusetts General Hospital; Boston MA; (Invited speaker and participant).

1992, IEL Workshop; Center for the Study of Inflammatory Bowel Disease; Massachusetts General Hospital; Boston MA; (Invited speaker and participant).

1987, Research Conference of the National Foundation for Ileitis and Colitis; Ft. Lauderdale, FL; (Invited participant).

1987, 18th International Leukocyte Culture Conference; La Grande Motte, France; (Invited Symposium Co-Chair).

d. Continuing Education Courses Presented

1991, Co-organizer; Southwest Regional Pathology Workshop; Crohn's and Colitis Foundation of America; University of Tulsa.

e. Other Presentations:

Scientific

2016, Department of Diagnostic and Biomedical Sciences, UT School of Dentistry, Houston, TX.

1999, 16th Annual Research Colloquium; University of Oklahoma Health Sciences Center at Tulsa.

1992, 8th International Congress of Immunology; Budapest, Hungary.

1991, European Federation of Immunological Societies; 11th Meeting; Espoo Finland.

1991, American Association of Immunologists (FASEB); Atlanta, GA.

1990, American Association of Immunologists (FASEB); New Orleans, LA.

1987, Mid-America Molecular Biology Colloquium; Oklahoma City, OK.

1986, 6th International Congress of Immunology; Toronto, Canada.

Community

2000, Informal seminar to liver transplant support group, Tulsa, OK.

1999, Seminar in the "The Last Lecture" seminar series of the Phi Kappa Phi honorary society; University of Tulsa.

1989, Informal seminar to Crohn's and Colitis support group, Tulsa, OK.

Publications:

a. Abstracts

1. **Klein, J.R.**, Williams, A., Vigneswaran, N., and Montufar-Solis, D.: Lamina propria lymphocytes in sanroque mice produce proinflammatory cytokines that drive chronic small intestinal inflammation. Annual Meeting of the American Association of Immunology, Washington, D.C., 2017.
2. **Klein, J.R.**, and Montufar-Solis, D.: Splenic monocytes traffic to the thyroid and produce a novel TSH β splice variant during acute Listeria infection in mice. Annual Meeting of the American Association of Immunology. New Orleans, LA. 2015.
3. Schaefer J.S., Howorth, H., Nakra, N., Montufar-Solis, D., Vigneswaran, N., and **Klein, R.R.**: Epigenetic regulation in IL-10-mediated inflammation. Annual Meeting of the Crohn's and Colitis Foundation of America, Hollywood, FL. 2014.

4. Schaefer, J.S., Montufar-Solis, D., Vigneswaran, N., and **Klein, J.R.:** Small intestinal inflammation in roquin-mutant and roquin-deficient mice. 15th International Congress of Immunology, Milan, Italy. 2013.
5. Schaefer, J.S., Nakra, N., Montufar-Solis, D., Vigneswaran, N., and **Klein, J.R.:** IL-10-mediated regulation of miR-223 and Roquin. Inflammatory Bowel Diseases, Nov 13. Crohn's and Colitis Foundation of America, Hollywood, FL. 2013.
6. Schaefer J.S., Nakra, N., Montufar-Solis, D., Vigneswaran, N., and **Klein, J. R.:** Role for miR-223 and Roquin in IL-10 mediated regulation of IL-17. Annual Meeting of the American Association of Immunology; Honolulu, HI. 2013.
7. Schaefer, J.S., Montufar-Solis, D., Vigneswaran, N., and **Klein, J.R.:** MicroRNAs in the IL-10^{-/-} mouse model of colitis. Keystone Meeting, MicroRNAs and Human Disease; Banff, Alberta, Canada. 2011.
8. Schaefer, J.S., Streckfus, C., Graham, D., and **Klein, J.R.:** MicroRNAs in Crohn's disease patients. Clinical and Translational Research and Education Meeting; Washington, DC. 2011.
9. Schaefer, J.S., Streckfus C., Graham, D., and **Klein, J.R.:** Evaluation of miRNAs in peripheral blood leukocytes and intestine in Crohn's disease patients: Implications for diagnosis and therapy. 14th International Congress of Immunology; Kansai, Japan. 2010.
10. Schaefer, J.S., Montufar-Solis, D., and **Klein, J.R.:** Roquin-mediated regulation of intestinal inflammation. AAI Meeting; Baltimore. MD. 2010.
11. Ekhlassi, S., Scruggs, L., Garza, T., Montufar-Solis, D., Moretti, A., and **Klein, J.R.:** Interleukin-6 activates MCP-1: P gingivalis LPS induces TNF- α , TECK secretion. 87th Meeting of the International Association for Dental Research and the American Association for Dental Research; Miami, FL. 2009.
12. Jones, K., Schaefer, J., and **Klein, J.R.:** Effects of P. Gingivalis LPS on the activation of innate and proinflammatory responses in mouse macrophage and fibroblast cell lines. Hinman Research Meeting; Memphis, TN. 2008.
13. Schaefer, J.S., Montufar-Solis, D., **Klein, J.R.:** Differential involvement of CD4⁺ Th17 cells and CD8⁺ Tc17 cells in the intestinal epithelium of normal and IL-10^{-/-} mice. Keystone Symposium; Snowbird, UT. 2008.
14. Montufar-Solis, D., Hicks, J., **Klein, J.R.:** A rationale for combining immunotherapy to control intestinal inflammation predicted from cytokine arrays in IL-10^{-/-} mice. 13th International Congress of Immunology; Rio de Janeiro, Brazil. 2007.
15. **Klein, J.R.**, Hicks, J., Montufar-Solis, D.: Massive colonic cytokine dysregulation in IL-10^{-/-} mice revealed by multiplex analysis. Annual Meeting of the American association of Immunologists; Miami, FL. 2007.
16. Ekhlassi, S., Montufar-Solis, D., **Klein, J.R.:** CCL2/MCP-1 Activation in Gingival Fibroblasts by Interleukin-6 or Soluble gp130. American Association of Dental Research Meeting; New Orleans, LA. 2007.

17. Ekhlassi, S., Montufar-Solis, D., **Klein, J.R.**: Role of interleukin-6 (IL-6) and IL-6 trans-signaling in immune activation in gingival tissues. Hinman Research Meeting; Memphis, TN. 2006.
18. **Klein, J.R.**, Scruggs, L., Garza, T., Montufar-Solis, D.: *P. gingivalis* lipopolysaccharide-induced synthesis of proinflammatory cytokines and CCL25 gene expression in murine gingival fibroblasts. Annual Meeting of the American Association of Immunologists; Boston, MA, Abst No 109.8. 2006.
19. **Klein, J.R.**, Garza, T., Montufar-Solis, D.: Differential Role of Murine Small Intestinal Intraepithelial Lymphocytes to Reovirus Infection Defined by CD43 Expression. Annual Meeting of the American Association of Immunologists; Boston, MA, Abst No 109.10. 2006.
20. Scruggs, L., **Klein, J.R.**: Cytokine production of gingival fibroblasts in presence of *Porphyromonas gingivalis*. Hinman Research Meeting; Memphis, TN. 2005.
21. **Klein, J.R.**, Montufar-Solis, D.: Activational and inflammatory profiles of intestinal T cells during acute reovirus infection in mice. FASEB/American Association of Immunologists Meeting; San Diego, CA. 2005.
22. Scofield, V., Cheng, E., Montufar-Solis, D., Estes, M., **Klein, J.R.**: Local synthesis of thyroid stimulating hormone (TSH) in c-kit⁺ IL-7⁺ small intestine crypts and intestinal villus epithelia: A role for TSH during enteric virus infection. Annual Meeting of the American Association of Immunologists; San Diego, CA. 2005.
23. **Klein, J.R.**, Montufar-Solis, D.: Activational and inflammatory profiles of intestinal T cells during acute reovirus infection in mice. Annual Meeting of the American Association of Immunologists; San Diego, CA. 2005.
24. Montufar-Solis, D., Wang, H., Teng B., and **Klein, J.R.**: Two functional populations of murine small intestinal intraepithelial lymphocytes defined by CD43 isoform expression. 12th International Congress of Immunology; Montreal, Canada. 2004.
25. McGrory, J.K., and **Klein, J.R.**: Immunological involvement in gingival wound healing in mice. International Association of Dental Research; Honolulu, HA. 2004.
26. Wang, J.R., and **Klein, J.R.**: Functional diversity of murine small intestinal intraepithelial lymphocytes discriminated by CD43 expression. UT Health Science Center Research Day; Houston TX. 2003.
27. **Klein, J.R.**, and Dragoo J.: Does the immune system regulate metabolic activity? UT Health Science Center Research Day; Houston TX. 2003.
28. Wang, H.C., and **Klein, J.R.**: Maximum immunobioactivity of murine intestinal intraepithelial lymphocytes resides in a subpopulation of CD43⁺ cells. American Association of Immunologists, 90th Anniversary Meeting, Denver CO. 2003.
29. Wang, H.C., and **Klein, J.R.**: Functional involvement of CD8 on murine intestinal intraepithelial lymphocytes. 8th Annual Research Day; University of Texas Health Science Center; Houston, TX. 2002.

30. Wang, H.C., and **Klein, J.R.**: Role of OX40 in immune activation of murine intestinal T cells. 8th Annual Research Day; University of Texas Health Science Center; Houston, TX. 2002.
31. Otten, K.L., and **Klein, J.R.**: Characterization of T cells in the mouse oral mucosa. *J. Dent. Res.* 81:0779. 2002.
32. **Klein, J.R.**, and Wang, H.C.: Activation properties of murine small intestine intraepithelial lymphocytes (IELs) correlated with CD8 expression level (oral presentation). 11th International Conference of Mucosal Immunology. Orlando, FL . 2002.
33. Wang H.C., and **Klein, J.R.**: OX40:OX40L interactions drive and coordinate terminal intraepithelial lymphocyte activation in mouse small intestine. *Faseb J* 16:A678. 2002.
34. Wang, H.C., and **Klein, J.R.**: Two levels of murine intestinal intraepithelial lymphocyte expression defined by OX40 (CD134) expression. UT-Dental Branch Research Day; Houston TX. 2001.
35. Whetsell, M., Bagriacik, E.U., Seetharamiah, G.S., Prabhakar, B.S. and **Klein, J.R.**: Neuroendocrine-induced synthesis of bone marrow-derived cytokines with inflammatory immunomodulating properties. 16th Annual Research Colloquium; University of Oklahoma Health Sciences Center; Tulsa, OK. 1999.
36. Bagriacik, E.U., Armstrong, M.D., Okabe, M. and **Klein, J.R.**: Differential expression of CD43 isoforms on murine T cells and their relationship to intestinal acute graft-versus-host disease: Studies using enhanced-green fluorescent protein (EGFP) transgenic mice. 16th Annual Research Colloquium; University of Oklahoma Health Sciences Center; Tulsa, OK. 1999.
37. Armstrong, M.D. and **Klein, J.R.**: Analyses and characterization of T cell activation markers on murine intestinal intraepithelial lymphocytes (IELs) by flow cytometry. 16th Annual Research Colloquium; University of Oklahoma Health Sciences Center; Tulsa, OK. 1999.
38. **Klein, J.R.**: Neuroendocrine collaboration in intestinal T cell development and differentiation: Evidence for a local thyrotropin hormone network in the small intestine epithelium. 16th Annual Research Colloquium; University of Oklahoma Health Sciences Center; Tulsa, OK. 1999.
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c. Invited Articles

1. Montufar-Solis, D., Garza, T., **Klein, J.R.**: T cell activation in the intestinal mucosa. *Immunol Rev* 215:189-203. 2007.
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