CURRICULUM VITAE 2009
Roger Arce DDS. MS.

Profile statement

I started my graduate education at Universidad del Valle at Cali, Colombia, where I obtained a DDS degree (2000) and a Masters degree in Pharmacology (2005). I also completed two years of clinical training in Periodontology at the same institution (2006). I have been working on periodontal research during the last 8 years in topics such as oral microbiology, apoptosis in inflammation and the systemic effects of periodontal diseases.

I have an enormous academic interest in Periodontal Disease and its systemic connection, especially in the cardiovascular/pregnancy area, modulation of inflammatory responses and drug research.

Currently I am a Third-year PhD student in the Oral Biology program, School of Dentistry, University of North Carolina at Chapel Hill. I am also enrolled in the Translational Medicine certificate (UNC Med Into Grad Program) at UNC. I look forward to becoming a Scientist/Academician in the near future. My personal goal is to play an important role in the continuum of translational research by ensuring a continuous flow of information from the laboratory bench to the clinical application in patients.

PERSONAL INFORMATION.

- Born in Cali, Colombia, June 15th 1977.
- Marital status: Married to Marisol Betancourt, Bsc. MS, MT (AMT).
- Current address: 6205 Farrington Rd. Apt N-6
  Chapel Hill, NC 27517
  Cell phone: (919) 259-8483
- E-mail: roger_arce@dentistry.unc.edu
- Personal Website: http://www.rogerarce.com

EDUCATION.

2006-	Oral Biology PhD student (third year). UNC School of Dentistry at Chapel Hill, NC.
2002-2005	Master of Sciences in Pharmacology. School of Health Sciences. Universidad del Valle at Cali, Colombia.
2003-2005	Graduate program in Periodontology. Two years of residency. School of Dentistry, Universidad del Valle at Cali, Colombia.
1995-2000	Doctor in Dental Surgery DDS. School of Dentistry. Universidad del Valle at Cali, Colombia.

HONORS/AWARDS

2008 **Howard Hughes Medical Institute (HHMI) Scholar**. Student in the Translational Medicine certificate (UNC Med Into Grad Program).

Derek T. Turner Graduate Student Research Award. American Association of Dental Research, UNC at Chapel Hill.

2005 **Research award in Periodontology**. XVI Research Symposia. Colombian Association of Dental Schools. Cartagena-Colombia.

2003 **Full Tuition remission award for Academic Excellence**. Master of Science Program in Pharmacology.

2002 **Research award in Oral and Maxillofacial Surgery**. XIII Research Symposia. Colombian Association of Dental Schools. Bogotá-Colombia.

1999 **Full Tuition remission award for Academic Excellence**. Graduate program in Dentistry.

GRADUATE ROTATIONS, INTERNSHIPS AND PROFESSIONAL CLINICAL PRACTICE.

2008 Rotation at Kathleen Caron's Lab, Cell and Molecular Physiology Department, School of Medicine UNC at Chapel Hill. Genetically Engineered Animal Models in Study of Human Disease, emphasis in the role of Adrenomedullin in pregnancy and placental development.

2005 Visiting scholar. Center for Oral and Systemic Diseases. University of North Carolina at Chapel Hill. Summer (3 months).

2001-2006 Private practice in General Dentistry/Periodontics for 5 years. Cali, Colombia.

2000 Local Hospital of Timbiqui-Colombia. Mandatory Social Service, General Dentistry.

1999 La Buena Esperanza Local Hospital. Yumbo-Colombia. Mandatory Social Service, General Dentistry.

1998-1999 San Juan de Dios General Hospital at Cali. Emergency Room (Facial and Dental Trauma) 12 hour/shifts.

RESEARCH PROJECTS AND PUBLICATIONS

2009 •**Arce RM**, Barros SP, Wacker B, Peters B, Moss K, Offenbacher S. Increased TLR4 expression in murine placentas after oral infection with periodontal pathogens. *Placenta 2009 30(2):156-62*.

•**Periodontal disease and Preterm Delivery: influences of**

***Campylobacter rectus* infection on placental innate immunity**. PhD dissertation project, Center of Oral and Systemic diseases, UNC at Chapel Hill). *In progress*.

2008 •**POPTOP: Periodontal treatment on preeclamptic women: clinical trial pilot**. Periodontal Medicine Research Group, Universidad del Valle, Colombia. (In collaboration with the Center of Oral and Systemic diseases, UNC at Chapel Hill). *In progress*.

2007 •Lafaurie GI, Contreras A, Botero J, **Arce RM**. Demographic, clinical, and microbial aspects of chronic and aggressive periodontitis in Colombia: a multicenter study. *J Periodontol. 78(4):629-39*.

•Botero JE, Contreras A, Lafaurie G, Jaramillo A, Betancourt M, **Arce RM**. Occurrence of periodontopathic and super infecting bacteria in chronic and aggressive periodontitis subjects in a Colombian population. *J Periodontol. 78(4):696-704*.

•Herrera JA, Parra B, Herrera E, Botero JE, **Arce RM**, Contreras A, López-Jaramillo P. Periodontal disease severity is associated with high levels of hs-crp in preeclampsia: a case-control study. *J Hypertension 25(7):1459-64*.

•Botero JE, **Arce RM**, Escudero M, Betancourth M, Jaramillo A, Contreras A. Frequency detection of periodontopathic and super infecting bacteria in HIV+ patients with periodontitis**.** *Journal of the International Academy of Periodontology* 9*(1):13-8*.

•**Arce RM**, Tamayo O, Cortés A. Human gingival fibroblast apoptosis in
2007 periodontitis. Published in *Colombia Médica*; 38(1):197-209 (Spanish). Available at
http://colombiamedica.univalle.edu.co/Vol38No3/html/v38n3a2.pdf

2006 Contreras A, Herrera JA, Soto JE, **Arce RM**, Jaramillo A, Botero JE. Periodontitis is associated with preeclampsia in pregnant women. *J Periodontol 77(2):182-188, 2006.*

2005 Jaramillo A, **Arce RM**, Herrera D, Betancourth M, Botero JE, Contreras A. Clinical and microbiological characterization of periodontal abscesses. Periodontal Medicine Research Group, Universidad del Valle at Cali, Colombia. Published in *J Clinical Periodontology Dec; 32(12):1213-8.*

2004 **Arce RM.** Periodontal therapy in the future (Review). Published in *Colombia Médica*; 35(s1):40-47(Spanish). Available at
http://colombiamedica.univalle.edu.co/Vol35No3supl/pdf/periodontal.pdf

2002 **Arce RM**, Jaramillo A, Betancourth M, Botero JE, Contreras A. Toothbrush contamination in children and their parents. Periodontal

Medicine Research Group. *Estomatología* (10):2:4-12. (Spanish).

2001 **Arce RM,** Leon ME. Cephalometric measurements in women with pleasant facial characteristics (Undergraduate Thesis). *Colombia Médica* (32)3:201-4 (Spanish). Available at http://colombiamedica.univalle.edu.co/VOL32NO3/reinas.pdf

PROFESSIONAL PRESENTATIONS

2009 **Topical CCR2-antagonist Promotes Alveolar Bone Formation After Bacterial-induced Murine Periodontitis.** IADR 2009 Miami, Non-surgical Periodontal Therapy/Systemic Influences/Host Modulation Therapy session.

2008 **Increased TLR-4 expression in murine placentas after oral periodontopathogenic infection**. IADR 2008 Toronto, CAN. Innate immunity research session.

2007 **Human Gingival Fibroblasts apoptosis in Periodontal disease**. IADR 2007 New Orleans, LO. Connective tissues research session.

2006 **Periodontal disease severity is associated with high levels of hs-crp in preeclampsia.** IADR 2006 Miami, FL. Late breaking news session.

2005 **Periodontitis increases the risk for preeclampsia in pregnant women.** SOGC 61st annual clinical meeting/61e assemblée clinique annuelle, Québec city, Canada.

2005 **Clinical and Microbiological findings in Periodontal Abscesses.** LADR 2005 Mar del Plata, ARG.

FORMER TEACHING APPOINTMENTS (School of Dentistry, Universidad del Valle at Cali-Colombia).

2003-2006 **Adjunct Faculty for the Graduate program in Dentistry***.* Classes in Pharmacology, Research methods, Periodontal Medicine and direct clinical supervision of patients in the clinic.

2003 **Young academician.** Full scholarship sponsored by COLCIENCIAS (Colombian Institute for Science development).

2002 **Assistant Faculty** for the Oral Hygiene Program*.* Classes in Oral microbiology, Pharmacology and direct clinical supervision of patients in the clinic.

CONTINUING EDUCATION.

2007 The Risk of Periodontal Disease: Periodontal Disease as a Risk for Systemic Disease. Directed by Dr. Steven Offenbacher and Dr. Joseph Fiorellini, Chapel Hill, NC.

2005 Immunology in Periodontology. Directed by Dr. Denis F. Kinane. Bogotá, Colombia.

2003 International Course in Oral Microbiology. Directed by Dr. Mariano Sanz, Dr. David Herrera and Dr. Adolfo Contreras, University of Chile, Santiago, Chile.

2002 42º Annual Periodontics Seminar, Directed by Dr. Anne Haffajee and Dr. James Cochran, Santa Marta, Colombia.

1998 IV International Course -The TMJ in Oral Rehabilitation. Directed by James Frickman. Cali, Colombia.

1997 III International Course in Periodontics. Directed by Dr. Roy C. Page and Dr. Joseph Zambon. Cali, Colombia.

EXTRACURRICULAR ACTIVITIES

2001 Academic director. XII Research Symposia. Colombian Association of Dental Schools. Dental Alumni Secretary. Universidad del Valle at Cali-Colombia.

1997-1998 President. FOEC (Colombian Dental Students Association. Universidad del Valle), Cali-Colombia.

1996 President. VIII FOEC (Colombian Dental Students Association) National Convention 1996, Cali-Colombia.

LANGUAGES/EXAM SCORES

- Spanish (Native).
- English (Fluent, spoken and written).
- GRE score 1040 (verbal 410/quantitative 630, CAT, 2005)
- TOEFL Score 253/300 (CAT, 2005).

CURRENT/FORMER MENTORS.

- **Steven Offenbacher. DDS, PhD, MMSc.**

  OraPharma Distinguished Professor of Periodontal Medicine
  Director, Center for Oral and Systemic Diseases
  University of North Carolina at Chapel Hill
  Phone. (919) 962-7081. Fax. (919) 966-7537

- **Adolfo Contreras R. DDS. MSc. PhD.**

  Doctor of Dental Surgery, Universidad del Valle.
  Master of Microbiology, Universidad del Valle.
  Doctor in Craniofacial Biology. U. Southern California-USA.
  Dean of Dentistry, Universidad del Valle. Cali-Colombia.
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