# Neda Saffarian Tousi, Ph.D.

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## *PROFESSIONAL SUMMARY*

**An energetic educator committed to student learning and success for over 9 years in research and teaching. Thoroughly understands the learning process and works hard to adapt methods and use various teaching styles.**

## *EDUCATION*

### PH.D. Biomedical Sciences
**Oklahoma State University Center for Health Sciences**
*Tulsa, Oklahoma | August 2011*

**BACHELOR OF SCIENCE Biological Sciences**
**Oklahoma State University**
*Stillwater, Oklahoma | December 2004*

## *SKILLS*

- Extensive knowledge of Biological Sciences and research
- Written/Verbal Communication
- Laboratory Experiments
- Extensive Organizational Skills
- Critical Thinking
- Team Collaboration
- Personable and approachable
- Course Planning
- Creative instruction style

## *WORK EXPERIENCE*

**BROOKHAVEN COMMUNITY COLLEGE (DCCCD)**
*Adjunct Faculty | Farmers Branch | August 2017 to Present*

- Teach Biology classes and other science courses when needed.
- Prepare lab lectures and exercises for each lab class.
- Solid ability to interact with students through effective communications.
- Encourage student participation in each class.
- Ensure quick response via email, phone calls, or texts to all students.

**TUTORDOCTOR AND SELF-EMPLOYED AT FRISCO MATH TUTORS**
*Tutor | Frisco/Mckinney | January 2014 to Present*

- Deliver one-on-one instruction to students, including those with learning difficulties.
- Develop and deliver engaging lectures to students using easy-to-understand terms and interactive games.
- Foster students' commitment to lifelong learning by connecting course materials to broader themes and current events.
- Wrlte course materials such as homework assignments, handouts, and exams.
- Guide students in using technology to support educational research.
- Install confidence, organizational skills, and independence in students.

**THOMAS J. STEPHENS AND ASSOCIATES**
*Junior Investigator | Richardson, Texas | November 2014 to August 2015*

- Study investigator on clinical trials for skin care products.
- Studied design and protocol development, interpreted research findings, and audited study reports.
- Contributed by evaluating patients for inclusion and exclusion criteria on multiple protocols, as well as grade for safety and efficacy assessment of skin care products. Proficient in reviewing medical records to assess patient's disease status, treatment course, and adverse events.

**TEXAS A&M UNIVERSITY BAYLOR COLLEGE OF DENTISTRY**
*Postdoctoral Research Scientist | Dallas, Texas | January 2012 to March 2014*

- Demonstrated the role of inflammation on the odontoblastic differentiation of dental pulp stem cells.
- Sought and managed external collaboration with Scottish Rite Children's Hospital on regeneration of collagen and cartilage in Legg-Perthes disease.
- Presented research at departmental research seminars as well as national scientific meetings.
- Strategized, implemented, analyzed, and oversaw multiple projects.
- Ensured excellent communication between Primary Investigator, Clinical Collaborators, laboratory technicians, volunteers, and dental students.
- Trained, mentored, supervised, and managed all personnel directly assisting in the lab. Supervised and evaluated students' laboratory work.
- Coached students on public speaking and presentation skills.
- Prepared reports, manuscripts, proposals, and technical manuals for use by other scientists or targeted for publication.

**OKLAHOMA STATE UNIVERSITY CENTER FOR HEALTH SCIENCES**
*Observation work | Tulsa, Oklahoma | August to November 2011*

- Studied the effect of estradiol on body weight and food consumption in ovariectomized Sprague-Dawley rats.
- Demonstrated hormone replacement therapy decreases body weight and consumption of food in ovariectomized rats.

**OKLAHOMA STATE UNIVERSITY CENTER FOR HEALTH SCIENCES**
*Graduate Assistant | Tulsa, Oklahoma | June 2005 to August 2011*

- Two-hit model study designed to mimic the interactions between PD-associated proteins and inflammation on human astroglial cells: Alpha-synuclein increased CXCL10 chemokine and iNOS expression; Neuromelanin inhibited CXCL10 chemokine via decrease in NF-kB activity.
- President of OSU-CHS's Biomedical Sciences Graduate Students Association : initiated science fairs at an underprivileged elementary school, held fundraisers, and developed two websites with contact links and specific research interests.
- Awarded the Top Graduate Student of OSU Center for Health Sciences campus.
- Supervised and evaluated students' laboratory work in Cellular and Molecular biology techniques, Mammalian Cell Culture techniques, Research Design, Data Analysis, and Critical Thinking.

## *PUBLICATIONS*


1. **Hozhabri NST,** Benson MD, Vu MD, Patel RH, Martinez RM, Nakhaie FN, Kim HKW, Varanasi VG. Decreasing NF-κB Expression Enhances Odontoblastic Differentiation and Collagen Expression in Dental Pulp Stem Cells Exposed to Inflammatory Cytokines. PLoS One. 2015; 10(1): 1-16.
2. Armstrong-Briley D, **Hozhabri NS**, Armstrong K, Puthottile J, Benavides R, Beal S. Comparison of length of stay and outcomes of patients with positive versus negative blood culture results. Proc (Bayl Univ Med Cent) 2015; 28(1): 10-13.
3. **Saffarian Tousi, N.,** Velten, M., Bishop, T., Leong K., Barkhordar, N., Marshall, G., Loomer, P., Aswath, P, Varanasi, V. Combinatorial Effect of Si4+, Ca2+, and Mg2+ Released from Bioactive Glasses on Osteoblast Osteocalcin Expression and Biomineralization. *Materials Science and Engineering part C*. 2013; 33:2757-2765.
4. **Saffarian Tousi, N**., Buck, D., and Davis, R. Alpha-synuclein potentiates interleukin-1β-induced CXCL10 expression in human astrocytoma cells. Neuroscience Letters, 2012;507(2):133-6.
5. **Saffarian Tousi, N**., Buck, D.J., Zecca L., and Davis, R.L. Neuromelanin inhibits CXCL10 expression in human astroglial cells. Neuroscience Letters. 2010; 486(1): 47-50.

**6.** Davis, R., Buck, D., **Saffarian, N.**, Mohan, S., DeSilva, U., Fernando, S., and Stevens, C. β-Funaltrexamine inhibits inducible nitric oxide synthase expression in human astroglial cells. Journal of Neuroimmune Pharmacology. 2008; 3(3):150-153.
**7.** Davis, R., Buck, D., **Saffarian, N.**, and Stevens, C. The opioid antagonist, β-funaltrexamine, inhibits chemokine expression in human astroglial cells. Journal of Neuroimmunology. 2007; 186(1-2):141-149.

## *PERSONAL INFORMATION*

References are Available Upon Request.