

Suha M. Saleh, Ph.D., M.T.
Curriculum Vitae

Department of Health Professions
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EDUCATION:

<u>Institution</u>	<u>Degree</u>	<u>Major</u>	<u>Date</u>
Kansas State University Manhattan, KS	Ph.D.	Physiology	2000
Al-Quds University Al-Bireh, Israel	B.S.	Medical Technology	1994

PROFESSIONAL EMPLOYMENT:

<u>Employer</u>	<u>Position</u>	<u>Date</u>
University of Central Florida College of Health and Public Affairs Department of Health Professions Health Sciences Pre-Clinical Program Orlando, FL	Program Director and Assistant Professor	2010-current
University of Texas-El Paso College of Health Sciences Clinical Laboratory Science El Paso, TX	Clinical Assistant Professor	2007-2010
University of Texas-El Paso College of Science Department of Biology El Paso, TX	Lecturer	2002-2007
Georgetown University Medical Center Department of Neuroscience Washington D.C.	Post-Doctoral Fellow	2000-2001
Kansas State University Department of Anatomy and Physiology Manhattan, KS	Graduate Research Assistant	1997-2000
Kansas State University Department of Biochemistry Manhattan, KS	Graduate Teaching Assistant	1997-1998

Kansas State University
Department of Biology
Manhattan, KS

Research Assistant

Summer 1996

The Arab Health Center
Al-Bireh, Israel

Medical Technologist

1994-1995

RESEARCH:

Honors and Awards:

- “Presidential Merit Award” from the **Texas Association for Clinical Laboratory Science (TACLS)**, in recognition of my service as Program Chair of the 2010 TACLS Convention in El Paso, and for preparing an excellent program for the convention, 2010.
- “Omicron Sigma Award” from the **Texas Association for Clinical Laboratory Science (TACLS)**, for my significant contributions to the field of Clinical Laboratory Science and for displaying outstanding example which has inspired others, 2010.
- ”Outstanding Performance Certificate” from **Texas Tech University Health Science Center, Paul L. Foster School of Medicine-El Paso**, for my research poster presentation in 2008.
- “Certificate of Appreciation” from “**The El Paso Diabetes Association**” for my contribution to the education of El Paso community in the area of diabetes and visual complications in 2008.
- Nominated by my students at the University of Texas-El Paso for the quality of my teaching to be honored by “**Who's Who Among America's Teachers**”. My biography was published in the 9th edition of this book as one of the nation’s most respected teachers, 2005.
- Certificate of recognition for my Ph.D. research study from the “**Center for Basic Cancer Research**” at Kansas State University in 1999.

Publications:

1. Hamed, Kastro M. and **Saleh, Suha M.** (2011). An outreach with vision: synergizing teaching, research, and community service in an initiative connecting a University and a local High School. *Journal of Higher Education Outreach and Engagement*. In review.
2. **Saleh, Suha M.** (2011). The Effect of PKC- α and Raf Kinase Antisense RNA on Cell Survival in Normal and Diabetic Retinas: A Histological Study. *Experimental Diabetes Research*. In review.
3. **Saleh, Suha M.** (2010). Preparing CLS professionals to be consumers and producers of research. *Clin Lab Sci.* 23(3), 19-23.

4. **Saleh, Suha M.** (2008). Evaluation of PKC- α and c-raf Kinase Antisense Treatment in Normal and Diabetic Retinas. *Investigative Ophthalmology and Visual Science*; 49:ARVO E-Abstract 5367.
5. **Saleh, Suha M.** (2004). Topics in study of life laboratory manual. 1st ed. Boston. Pearson Custom Publishing.
6. Wagner, Lynn M., **Saleh, Suha M.**, Boyle, Daniel J., Takemoto, Dolores J. (2002). Effect of protein kinase C γ on gap junction disassembly in lens epithelial cells and retinal cells in culture. *Molecular Vision*. 8, 59-66.
7. **Saleh, Suha M.**, Takemoto, Larry J., Zoukhri, Driss, and Takemoto, Dolores J. (2001). PKC- γ phosphorylation of connexin 46 in the lens cortex. *Molecular Vision*. 7, 240-246.
8. Lewis S., Karrer, J., **Saleh, Suha M.**, Chen Y., Tan Z., Hua D., McGill J., Pang Y., Fenwick B., Brightman A., and Takemoto, D. (2001). Synthesis and evaluation of novel aldose reductase inhibitors: effects on lens protein kinase C γ . *Molecular Vision*. 7, 164-171.
9. Takemoto, Dolores J., Takemoto Larry J., Zoukhri, Driss and **Saleh, Suha M.** (2001). The Association Between PKC- γ and Connexin 46 in the Lens Cortex. *Investigative Ophthalmology and Visual Science*. 42 (4), (Abstract: 2899).
10. Karrer, Julie E., **Saleh, Suha M.**, Boyle, Daniel J., and Takemoto, Dolores J. (2001). Effect of Galactosemia on Gap Junctions in the Lens. *Investigative Ophthalmology and Visual Science*. 42 (4), (Abstract: 2901).
11. Mohamed, Ali S., Rivas-Pala, Kimberly A., Krass, Jonathan R., **Saleh, Suha M.**, and Swope, Sheridan L. (2001). Src-class kinases act within the agrin/MuSK pathway to regulate acetylcholine receptor phosphorylation, cytoskeletal anchoring, and clustering. *Journal of Neuroscience*. 21 (11). 3806-3818.
12. **Saleh, Suha M.** and Takemoto, Dolores J. (2000). Overexpression of Protein Kinase C- γ Inhibits Gap junctional Intercellular Communication in the Lens Epithelial Cells. *Experimental Eye Research*. 71, 99-102.
13. **Saleh, Suha M.** and Takemoto, Dolores J. (2000). The Role of Protein Kinase C- γ in the Gap Junctional Communication in the Lens. *Investigative Ophthalmology and Visual Science*. 41 (4), (Abstract: 3343).
14. Wagner, Lynn M., **Saleh, Suha M.**, and Takemoto, Dolores J. (1999). Comparison of Protein Kinase C- α and Protein Kinase C- γ in Bovine Primary Lens Epithelial Cells and N/N1003 Rabbit Lens Epithelial Cells. *Investigative Ophthalmology and Visual Science*. 40 (4), (Abstract: 4664).

Research Presentations:

Invited Presentations:

1. **Saleh, Suha M.** Presentation title “Diabetic Eye Disease” presented at the El Paso Diabetes Association as part of “Talk to the Expert” lecture series, El Paso, TX, Feb. 2010.
2. **Saleh, Suha M.** Presentation title “Laboratory Procedures and Diagnosis of Fungal Disease”, presented to the Medical Mycology students at the University of Texas-El Paso, Sep. 2009.
3. **Saleh, Suha M.** Presentation title “Scholarly writing”, presented to College of Health Sciences Graduate Students as part of the Healthy Exchange Seminar series, at the University of Texas-El Paso, Feb. 2009.
4. **Saleh, Suha M.** Presentation title “Diabetes and your vision”; presented at the El Paso Diabetes Association as part of “Talk to the Expert” lecture series, El Paso, TX, Jan. 2008.
5. **Saleh, Suha M.** Lecture title “The nervous system and neuromuscular junctions”; presented to the Physical Therapy Program students at the University of Texas-El Paso, Jan. 2008.

Contributed Presentations:

1. **Saleh, Suha M.** (2010). Revamping the Curriculum for a Growing Program. Winter Faculty Development Conference, FCTL, UCF. Orlando, FL.
2. **Saleh, Suha M.**, and Hamed, Kastro M. (2010). The impact of service learning on Clinical Laboratory Science students. Texas Association for Clinical Laboratory Science (TACLS), El Paso, TX.
3. Hamed, Kastro M., and **Saleh, Suha M.** (2009). Focus on the eye: bringing eye research to High School students. The International Sun Conference on Teaching and Learning, El Paso, TX.

Poster Presentations:

1. Kaplan Jeff, Walters Linda, Scott Blake, Gomrad Mary Ellen, Moody Jane, **Saleh Suha**, Garcia Martha, Hamed Kastro, and Berman Steven. (2010). E-Portfolios: Uses and Perceptions Across and Disciplines. UCF Winter Faculty Development Conference.
2. **Saleh, Suha M.** (2010). Effect of hyperglycemia and antisense treatment on retinal structure in diabetic retinopathy. Texas Association for Clinical Laboratory Science (TACLS), El Paso, TX.
3. Coronado, A., Garcia, I., and **Saleh, Suha M.** (2009). Hereditary abnormal red blood cell indices: A family study. Texas Association for Clinical laboratory Science (TACLS), Galveston, TX.

4. Cornelius, E., Valerio, P., and **Saleh, Suha M.** (2009). Do dialysis treatment centers in El Paso have sufficient capacity to meet the needs of the city's diabetic patients? Texas Association for Clinical laboratory Science (TACLS), Galveston, TX.
5. Leon, E., Espinosa, C., and **Saleh, Suha M.** (2008). Clinical Laboratory Science Workforce in El Paso. Texas Association for Clinical laboratory Science (TACLS), Austin, TX.
6. Ortiz, M., Soriano, J., and **Saleh, Suha M.** (2008). HIV/AIDS in El Paso vs. Austin. UTEP Research Expo.
7. Cabrera, K., Sanchez, M., Ramirez, D., and **Saleh, Suha M.** (2008). Predisposition of UTEP health science students to develop diabetes mellitus type 2. UTEP Research Expo.
8. **Saleh, Suha M.** (2008). Evaluation of PKC- α and c-raf Kinase Antisense Treatment in Normal and Diabetic Retinas. Association for Research in Vision and Ophthalmology (ARVO) International Conference, Fort Lauderdale, Florida.
9. **Saleh, Suha M.** (2008). Effect of hyperglycemia and antisense treatment on retinal structure in diabetic retinopathy. The Annual Research Colloquium at Texas Tech University Health Science Center, Paul L. Foster School of Medicine, El Paso, TX.
10. **Saleh, Suha M.** (2008). Effect of Hyperglycemia and antisense treatment on retinal structure in diabetic retinopathy. The 5th Annual Diabetes Conference, El Paso, TX.
11. Ibarbo, D., Patterson, M., and **Saleh, Suha M.** (2005). Diabetes in the US-Mexico border population. UTEP Research Expo.
12. Kosturakis, D., Herrera, J., and **Saleh, Suha M.** (2005). Colon Cancer in the US-Mexico border population. UTEP Research Expo.
13. Garcia, A., Erives, A., and **Saleh, Suha M.** (2005). Heart disease in the US-Mexico border population. UTEP Research Expo.
14. Bean, J., Castillo, S., and **Saleh, Suha M.** (2005). Asthma in the US-Mexico border population. UTEP Research Expo.
15. Hernandez, G., Love, D., and **Saleh, Suha M.** (2005). Lung cancer in the US-Mexico border population. UTEP Research Expo.
16. Hall, M., Cervantes, B., and **Saleh, Suha M.** (2005). Leukemia in the US-Mexico border population. UTEP Research Expo.
17. Zurlinden, K., Ornelas, G., and **Saleh, Suha M.** (2005). Cystic fibrosis in the US-Mexico border population. UTEP Research Expo.
18. Aquilar, J., Hudson, T., and **Saleh, Suha M.** (2005). Breast cancer in the US-Mexico border population. UTEP Research Expo.

19. Pina, H., Bermudez, L., and **Saleh, Suha M.** (2005). Alzheimer disease in the US-Mexico border population. UTEP Research Expo.
20. Whalin, C. and **Saleh, Suha M.** (2004). Diabetes among American's youth. UTEP Research Expo.
21. Karrer, Julie E., **Saleh, Suha M.**, Boyle, Daniel J., and Takemoto, Dolores J. (2001). Effect of Galactosemia on Gap Junctions in the Lens. Association for Research in Vision and Ophthalmology (ARVO) International Conference, Fort Lauderdale, Florida.
22. Takemoto, Dolores J., Takemoto, Larry J., Zoukhri, Driss, and **Saleh, Suha M.** (2001). The Association Between PKC- γ and Connexin 46 in the Lens Cortex. Association for Research in Vision and Ophthalmology (ARVO) International Conference, Fort Lauderdale, Florida.
23. **Saleh, Suha M.** and Takemoto, Dolores J. (2000). The Role of Protein Kinase C- γ in the Gap Junctional Communication in the Lens. Association for Research in Vision and Ophthalmology (ARVO) International Conference, Fort Lauderdale, Florida.
24. Wagner, Lynn M., **Saleh, Suha M.**, and Takemoto, Dolores J. (1999). Comparison of Protein Kinase C- α and Protein Kinase C- γ in Bovine Primary Lens Epithelial Cells and N/N1003 Rabbit Lens Epithelial Cells. Association for Research in Vision and Ophthalmology (ARVO) International Conference, Fort Lauderdale, Florida.

Funded Research Grants:

1. *Faculty Development Grant*

Funding agency: Faculty Center for Teaching and Learning, UCF

Funding status and amount: Funded, \$500

Funding period: 2010 - 2011

2. *Project Title:* Investigating the Involvement of Cellular Communication in the Development of Diabetic Retinopathy.

My role: Principal Investigator.

Funding agency: University Research Institute, University of Texas-El Paso.

Funding status and amount: Funded, \$5,000.

Funding period: 2008 – 2009

3. *Project Title:* Focus on the Eye: Bringing Eye Education and Research to High School.

My role: Principal Investigator.

Funding agency: Community Outreach Program, College of Health Sciences, University of Texas-El Paso.

Funding status and amount: Funded, \$10,000.

Funding period: 2007 – 2008.

4. *Travel Grant:* It supported my visit to NIH, I utilized it to learn and gain more experience on preparation and experiments using lens epithelial cells.

My role: Principal Investigator.

Funding agency: Kansas State University Cancer Center

Funding status and amount: Funded, \$2,500
Funding period: 2000

5. Travel Grant: It supported my visit to Washington University Medical School; I used it to learn methods and techniques in studying cellular communication through gap junctions.
My role: Principal Investigator.
Funding agency: Kansas State University Cancer Center
Funding status and amount: Funded, \$3,000
Funding period: 1999

Other Submitted Research Grants

6. Project Title: Diabetic Retinopathy Among Hispanic/Latino Americans: Understanding Cultural Barriers Towards Early Diagnosis and Treatment.
My role: Principal Investigator.
Funding agency: In-House Research Grant, UCF.
Funding status and amount: Not funded, (\$7,400).
Funding period: 2010-2011
7. Project Title: Improving Health Sciences Pre-Clinical students' skills in Professional development and career Advancement.
My role: Principal Investigator.
Funding agency: Learning Institute for the Elders, UCF.
Funding status and amount: Not funded, (\$2,000).
Funding period: 2010-2011
8. Project Title: Effect of Hyperglycemia on Regulation of Gap Junction Intercellular Communication in the Retina.
My role: Principal Investigator.
Funding agency: Fight for Sight Organization.
Funding status and amount: Not funded, (\$20,000).
Funding period: 2008
9. Project Title: Diabetic Retinopathy Among Hispanic Americas: Understanding Cultural Barriers Towards Early Diagnosis and Treatment.
My role: Principal Investigator.
Funding agency: Hispanic health Disparities Research Center, El Paso, TX.
Funding status and amount: Not funded, (\$20,000).
Funding period: 2007
10. Project Title: Assessment of student perception on dietary supplements and related health benefits in El Paso high school/college students.
My role: Co-Principal Investigator.
Funding agency: Center for Border Health Research, El Paso, TX.
Funding status and amount: Not funded, (\$70,000).
Funding period: 2006

11. *Project Title:* Investigating the Importance of Cellular Communication and Diabetic Retinopathy.
My role: Principal Investigator.
Funding agency: University Research Institute, University of Texas-El Paso.
Funding status and amount: Not funded, (\$5,000).
Funding period: 2006

12. *Project Title:* Gap Junction Intercellular Communication and Cataract.
My role: Principal Investigator.
Funding agency: Center for Border Health Research, El Paso, TX.
Funding status and amount: Not funded, (\$70,000).
Funding Period: 2005

TEACHING AND PROFESSIONAL ACTIVITY:

Courses Taught:

- ***Pathophysiologic mechanisms***, 2010
A senior level class that discusses the etiology, pathogenesis, and clinical manifestations of diseases.

- ***Clinical Chemistry***, taught six times from 2007- 2010
A junior level course that discusses and examines various topics of human pathophysiology with emphases on body and organ function and relation to chemical composition and balance. It also covers various instrumentation methods used in the analysis of body and organ function. This class is required for all Clinical Laboratory Science major students.

- ***Serology***, taught three times from 2007 – 2009
A junior level course that covers immunological detection and diagnosis of disease by the use of serological techniques. This class is required for all Clinical Laboratory Science major students.

- ***Clinical Investigation***, taught three times from 2007 – 2009
This is a senior level course that I designed to introduce our Clinical Laboratory Science students to the fundamental processes of conducting research in the health sciences. Students learned the basic tools for research, and then conducted research projects. They presented these projects orally, wrote papers and posters that were presented locally in research symposium at our University, and some presented their projects at national conferences for Clinical Laboratory Science.

- ***Clinical Immunodiagnostics***, taught three times from 2008 – 2010
A junior level course that covers basic clinical laboratory immunology and applications in laboratory medicine. It is required for all students majoring in Clinical Laboratory Science.

- ***Clinical Laboratory Management and Supervision***, taught three times from 2008 – 2010
A senior level class required for all Clinical Laboratory Science students. The purpose of this course is to prepare the student for entry level laboratory positions by developing skills

in basic laboratory administration/management practices including general management theory, personnel management, financial management, and laboratory regulations.

- **Senior Seminar**, taught three times from 2008 – 2010
This course is designed to provide senior Clinical Laboratory Science students with a broader understanding of the Clinical laboratory scientist's role as a health professional in a variety of learning experiences, including seminars, lectures and panel discussions.
- **General Biology**, taught 20 times from 2002 – 2007
A freshman level class that covers basic concepts and systems in Biology, required for all Biology major, pre-medical, pre-nursing, pre-health studies, engineering, and other disciplines.
- **Organismal Biology**, taught for 6 times from 2003 – 2007
A freshman level class that covers biological diversity, classification, characteristics and behavior of organisms, taken by all Biology major students and students in other disciplines.
- **General Biochemistry Laboratory**, taught once in 1998
A senior level laboratory that covers experiments related to carbohydrates, lipids, proteins, nucleic acids, and enzymes.
- **Introduction to Organic and Biochemistry Laboratory**, 1997 – 1998
A sophomore level course that provides basic experiments related to Organic Chemistry and Biochemistry.

Supervisory Experience:

- Coordinated teaching laboratories in the Biology Department, University of Texas-El Paso, and supervised graduate teaching assistants who taught freshman biology laboratories, up to 30 sections in some semesters
- Supervised graduate teaching assistants in the Biology Department, University of Texas-El Paso, managed their teaching schedules, and maintained the laboratory curriculum and experiments taught in the laboratories.
- Maintained all the laboratory supplies for General Biology, Organismal Biology, and Human Biology Laboratories at the University of Texas-El Paso.
- Was responsible for compliance of all Biology Freshman Laboratories with health and safety requirements for the University of Texas-El Paso.
- Coordinated and directed the computer lab in the Biology Department, University of Texas-El Paso., this facility is used by undergraduate and graduate students.
- Supervised freshman undergraduates in performing scientific inquiry and scientific/health research, and presentation to increase the level of interest in the subject taught.

- Revised the laboratory manual for “General Biology” laboratories, and updated several experiments at the University of Texas-El Paso.
- Supervised undergraduate students in carrying out research, and taught them various techniques and procedures at Georgetown University Medical Center.

Clinical Experience:

- Established and maintained a connection with clinical laboratories and hospitals in El Paso, New Mexico and Arizona to prepare our senior Clinical Laboratory science students for their practical experience (preceptorship).
- Prepared, organized, and maintained the schedules of clinical rotation and training for senior Clinical Laboratory Science students in clinical laboratories.
- Evaluated the proficiency of Clinical Laboratory Science students in the major clinical areas of their profession during and after their preceptorship.

Professional Organizations:

- Association for Research In Vision and Ophthalmology (ARVO)
- American Society for Clinical Pathologists (ASCP)
- American Society for Clinical laboratory Science (ASCLS)
- Sigma Xi: The Scientific Research Society

Professional Service:

- Reviewer for “Retina” journal.
- Program Chair organizing Texas Association for Clinical Laboratory Science (TACLS) Conference 2010, El Paso, TX.

University Service:

University of central Florida

- Chair of Health Sciences Pre-Clinical Committee
- Member of Teaching Incentive Program (TIP) Criteria Committee

University of Texas-El Paso

- College of Health Sciences Research Committee
- College of Health Sciences Activities Committee
- Library Liaison for the Clinical Laboratory Science Program
- Advisory Committee for the Clinical Laboratory Science Program
- Clinical Laboratory Science Committee to establish a masters program in CLS
- Clinical Laboratory Science Admitting Committee
- Department of Public Health Faculty Search Committee

Community Service:

University of Texas-El Paso

1. Participated as a Health Professional Expert in Canutillo Health fair: provided consultation and educational resources on Vision and Eye Health to Canutillo community members.
2. I have established connections and communications for community outreach and research activities with:
 - El Paso Diabetes Association, El Paso.
 - El Paso Texas Convention and Visitors Bureau.
 - Providence Memorial Hospital Laboratory.
 - Las Palmas Hospital Laboratory.
 - Canutillo High School, El Paso.