

Oya Yazgan
6073 South Backus Mall
Mesa, AZ 85212

E-mail: oyazgan@asu.edu
Phone: (480) 428-9161

EDUCATION

- 2002 **Ph.D. in Medical Biochemistry.** Department of Cell Biology and Biochemistry, Texas Tech University Health Sciences Center, Lubbock, TX. Dissertation title: *Functional characterization of two JunD isoforms.*
- 1994 **M.S. in Microbiology.** Department of Biological Sciences, Texas Tech University, Lubbock, TX. Thesis title: *Characterization of the propanediol dehydratase gene in Salmonella typhimurium.*
- 1988 **B.S. in Biology (Honors).** Department of Biology, Middle East Technical University, Ankara, Turkey.

WORK HISTORY AND RESPONSIBILITIES

- 2016-current **Instructor.** College of Integrative Sciences and Arts, Arizona State University, Polytechnic Campus, Mesa, AZ.
- **Teaching:** *Introductory Biology I Lecture (BIO 181), Microbiology Laboratory (MIC 206), Special Topics: Food and Human Health iCourse (ABS 394)*
 - Developing new course curriculum and syllabi
 - Producing new lectures and other course materials (including MasteringBiology online content, online quizzes and TurningPoint clicker materials)
 - Developing and maintaining Blackboard and Canvas course delivery sites
 - Developing new exercises for microbiology laboratories
 - Updating exercises and producing handouts and introductory lectures for the laboratory
 - Preparing all laboratory materials (cultures and media) for MIC 206 laboratory exercises
 - Setting up and clearing the teaching laboratories for instruction
 - Preparing order requests for supplies and equipment
 - Supervising student employees
- 2015-2016 **Instructional Professional.** College of Letters and Sciences, Arizona State University Polytechnic Campus, Mesa, AZ.
- **Teaching:** *Introductory Biology I Lecture (BIO 181), Microbiology Laboratory (MIC 206), Individualized Instruction (ABS 499)*
 - Developing new course curriculum and syllabi
 - Producing new lectures and other course materials (including MasteringBiology online content, online quizzes and TurningPoint clicker materials)
 - Developing and maintaining Blackboard course delivery sites
 - Developing new exercises for microbiology laboratories
 - Updating exercises and producing handouts and introductory lectures for the laboratory
 - Preparing all laboratory materials (cultures and media) for laboratory exercises
 - Setting up and clearing the teaching laboratories for instruction
 - Preparing order requests for supplies and equipment
 - Supervising student employees

- 2014-2015** **Term Assistant Professor/Lab Coordinator.** Department of Biological Sciences, University of Alaska, Anchorage, AK.
- **Coordinating:** *Coordinating three different General Biology laboratory courses (Fundamentals of Biology I and II for majors, and Introductory Biology Laboratory for non-majors- similar to BIO 181, BIO 182 and BIO 100 at ASU)), totaling 39 lab sections during the academic year.*
 - *Modifying and maintaining course curricula and syllabi*
 - *Developing and managing the Blackboard course shells for all instructors*
 - *Preparing and updating lab manuals, exercises, assessments and introductory lectures*
 - *Preparing the materials for laboratory exercises*
 - *Setting up and clearing the teaching laboratories for instruction*
 - *Ordering supplies and equipment*
 - *Maintaining laboratory budgets*
 - *Organizing instructor schedules*
 - *Supervising lab instructors (Term Faculty, Adjunct Faculty and TAs)*
 - *Supervising student employees*
 - *Mentoring teaching assistants*
 - *Holding weekly instructor meetings to go over weekly content*
 - **Teaching:** *Introductory Biology Laboratory (BIOL A103: non-majors), Fundamentals of Biology Laboratory I and II (BIOL A115L and BIOL A116L: majors), Introductory Microbiology for Health Science Laboratory (BIOL A240L: non-majors).*
- 2014 Summer I** **Adjunct Faculty/Instructor.** Community and Technical College, University of Alaska, Anchorage, AK.
- **Teaching:** *Online Human Biology Lecture (BIOL A100: non-majors).*
 - *Developing new course curriculum and syllabus*
 - *Producing new lectures and course materials for online delivery (using Screencast-O-Matic to record lecture videos)*
 - *Developing and maintaining Blackboard course delivery site*
- 2013-2014** **Instructor.** Chugiak Eagle River Campus-Community and Technical College/Department of Biological Sciences, University of Alaska, Anchorage, AK.
- **Teaching:** *Human Biology Lecture (BIOL A100: non-majors), Introductory Biology Lecture (BIOL A102: non-majors), Introductory Biology Laboratory (BIOL A103: non-majors), and Fundamentals of Cell Biology Laboratory (BIOL A242L: majors)*
 - *Developing new course curricula and syllabi for BIOL A100 and BIOL A102*
 - *Producing new lecture and course materials for BIOL A100 and BIOL A102*
 - *Developing and maintaining Blackboard course delivery sites for BIOL A100 and BIOL A102*
 - *Observing Introductory Anatomy and Physiology lecture and lab courses in preparation for teaching them in future semesters*
 - **Service:** *Member of Alaska Middle College School Advisory Committee and CERC Adjunct Faculty Coordinator Search Committee*
- 2012 Fall** **Adjunct Faculty/Instructor.** Department of Biological Sciences, University of Alaska, Anchorage, AK.
- **Teaching:** *Fundamentals of Biology I Laboratory (BIOL A115L: majors) and Introductory Biology Laboratory (BIOL A103: non-majors) courses.*
- 2005-2012** **Postdoctoral Research Fellow/Lab Manager** (Advisor: Dr. Jocelyn Krebs). Department of Biological Sciences, University of Alaska, Anchorage, AK.
- **Mentoring:** *Mentoring students in various programs (please see Undergraduate Research Teaching Experience)*

- **Lab management:**
 - Training and guiding staff and students
 - Writing detailed experimental procedures
 - Ordering laboratory supplies and equipment
 - Maintaining laboratory equipment
 - Maintaining grant budgets and handling the lab procurement card
 - Scheduling meetings or special activities
 - Giving safety training to new members
 - Serving as the dedicated safety personnel for the research area
- **Service:** Member of Departmental Safety Committee
- **Research:** Role of the WSTF protein in neural crest cell migration; effect of H2A S122A mutation on mitochondrial genome integrity; regulation of the CUP1 gene by antisense RNA. Performing research and publishing/presenting results, publishing review articles.

2002-2005 **Postdoctoral Research Fellow** (Advisor: Dr. Pamela Geyer). Department of Biochemistry, University of Iowa (UI), Iowa City, IA.

- **Research:** Role of the Gypsy insulator element in regulation of gene activity.

1997-2002 **Research Assistant** (Advisor: Dr. Curt Pfarr). Department of Cell Biology and Biochemistry, Texas Tech University Health Sciences Center (TTUHSC), Lubbock, TX.

- **Research:** Regulation of AP-1 factor activity by differential interaction of Menin tumor suppressor protein and Jun N-terminal kinase with JunD isoforms.

1991-1994 **Teaching/Research Assistant** (Advisor: Dr. Randy Jeter). Department of Biological Sciences, Texas Tech University (TTU), Lubbock, TX.

- **Teaching:** Undergraduate laboratory courses for majors in General Biology and Microbiology.

1988-1990 **Teaching Assistant.** Department of Biology, Middle East Technical University (METU), Ankara, Turkey.

- **Teaching:** Undergraduate laboratory courses for majors in Biochemistry.

CLASSROOM AND ONLINE TEACHING EXPERIENCE

- ASU** BIO 181: General Biology I Lecture (Spring 2016, Spring 2017, Spring 2018, Fall 2018, Spring 2019)
 MIC 206: Microbiology Laboratory (Fall 2015, Spring 2016, Summer 2016, Fall 2016, Spring 2017, Summer 2017, Fall 2017, Spring 2018, Fall 2018, Spring 2019)
 ABS 499: Individualized Instruction (Spring 2016)
 ABS 394 Online: Special Topic: Food and Human Health iCourse (Fall 2017, Spring 2018, Summer A 2018, Fall 2018, Spring 2019, Summer 2019)
- UAA** BIOL A100: Human Biology Lecture (Spring 2014)
 BIOL A100: Online: Human Biology Lecture (Summer 2014)
 BIOL A102: Introductory Biology Lecture for non-majors (Fall 2013, Spring 2014)
 BIOL A103: Introductory Biology Laboratory (Fall 2012, Fall 2013, Spring 2014, Fall 2014)
 BIOL A115L: Fundamentals of Biology I Laboratory (Fall 2012, Fall 2014, Spring 2015)
 BIOL A116L: Fundamentals of Biology II Laboratory (Fall 2014)
 BIOL A240L: Introductory Microbiology for Health Sciences Laboratory (Spring 2015)
 BIOL A242L: Fundamentals of Cell Biology Laboratory (Spring 2014)
- TTU** Microbiology Laboratory (300 level: majors) (1991-1994)
 General Biology Laboratory (100 level: majors) (1991)
- METU** Biochemistry Laboratory (majors) (1988)

UNDERGRADUATE RESEARCH TEACHING EXPERIENCE

- ASU** Mentored an undergraduate student in research (ABS 499). Assisted with research design, bench work and writing formal scientific reports. Spring 2016.
- UAA** Mentored students in academic research laboratory. Assisted with research plans, bench work, grant applications, progress reports, manuscripts and presentations. 2005-2012.
- *Three students in NSF Research Experiences for Undergraduates (REU) program*
 - *Two students in Medical Student Research Training Program*
 - *One student in a year-long INBRE Post-baccalaureate Research Fellowship program*
 - *One student in Alaska Heart Institute Fellowship program*
 - *Three students in Anchorage School District Gifted Mentorship program*
- Aided in training numerous students under the mentorship of other lab members
- UI** Trained two students in internship programs. 2002-2004.

PROFESSIONAL DEVELOPMENT

- ASU's Master Class for Teaching Online (Online workshop), March 26-April 8, Certificate received (April 2018)
- Audited ABS 494 Environmental Meteorology course at ASU Polytechnic campus, Fall 2018
- Basic and Intermediate Canvas, Poly Campus, June 22, 2018
- Canvas for Power Users- via Zoom June 22, 2018
- Webinar: Effective Question Writing by Turning Technologies- Kevin Herrholtz, Tue, May 16, 2017
- Webinar: HE - Thinking Outside of the Box - Creative Use (Medical) [of clickers] by Turning Technologies- Tammy Sherard, April 5, 2017
- ASU Provost's Teaching Academy Workshop- Controversial Topics and Opinions in the Classroom- April 19, 2017. Polytechnic Campus
- Provost's Teaching Academy Workshop- The Flipped Classroom: Hands-on Application- March 24, 2017
- TeachT@lk Webinar by ASU-CLAS: Choosing the Right Technology (for Online Courses).
- What's New in TP8 Webinar by Turning Point. June 22, 2017.
- On Teaching Science, a Mary Lou Fulton Teachers College Seminar. ASU Poly Campus. April 4, 2016.
- Audited ABS 260 Sustainable Horticulture course at ASU Polytechnic campus, Spring 2016
- Turning Point Clicker Training Session. ASU Tempe Campus. January 2016.
- 'Quality Matters' Online Course Design Workshop (Independent Applying the QM Rubric [APPQMR] course: Certificate earned). UAA Center for Advancing Faculty Excellence (CAFE). March 20, 2015.
- Advising Students – Workshop, by UAA CAFE. January 30, 2015.
- Integrating Community Engagement and Service Learning into Course Syllabi: A Faculty Workshop, by Center for Community Engagement & Learning. January 23, 2015.
- Cheating Online: How To Prevent, Detect & Deter Dishonesty. Webinar, by UAA CAFE. November 18, 2014.
- Embedding Information Literacy into Your Course. Project reviews, by UAA CAFE. November 14, 2014.
- Copyright in Distance Education. Workshop, by UAA CAFE. November 13, 2014.
- Backward Design: First Steps to Teaching. Workshop, by UAA CAFE. August 14, 2014
- What the Best College Teachers Do - Topics in Higher Education Book Group, by UAA CAFE. January 24-March 28, 2014.
- Creative Approaches to Presentations, by UAA CAFE. February 7, 2014.

- Effective Online Course Design Workshop, by UAA Faculty Technology Center (FTC). January 17, 2014.
- Team-Based Learning Institute Workshop, by UAA CAFE. January 9-10, 2014.
- Blackboard Updates Open House Event, by UAA FTC. December 16, 2013.
- Does Mindfulness Have a Place in Higher Education, by UAA CAFE. November 15, 2013.
- Assessing and Documenting your Teaching Book Group, by UAA CAFE. September 13 and October 11, 2013.
- Encouraging Student Creativity in the Classroom Workshop, by UAA CAFE. September 11, 2013.
- Building Your Syllabus, by UAA CAFE. August 21, 2013.
- eLearning & Distance Ed Course EDSE F422: Curriculum and Strategies II (High Incidence). University of Alaska Fairbanks - 2013 Summer. Grade: A+
- Best Practices in Online Science Education Symposium. March 29, 2013. University of Alaska Anchorage, AK.

TECHNICAL EXPERIENCE

- Cell culture:** Handling and maintenance of bacterial and eukaryotic cell cultures, generation of stable inducible cell lines (Tet-off), Baculovirus protein expression systems, transfections, transcriptional activation assays (luciferase), FACS analysis.
- Molecular Biology:** Construction of plasmids, site-directed mutagenesis, sequencing, *in vitro* transcription/translation reactions, DNA gel-shift assays, cDNA library construction, yeast two-hybrid assays, DNA damage assays, gene expression analyses by real time PCR and microarrays, transcriptional run-on assays, Western, Northern and Southern blot analyses, *in situ* hybridization assays, TUNEL assays (cell culture and whole-mount).
- Biochemistry:** Purification of tagged recombinant proteins, *in vitro* protein interaction assays, *in vitro* kinase assays, phosphopeptide mapping.
- Microscopy:** Immunocytochemistry, fluorescence microscopy, tissue sectioning, TEM.
- Computer:** Advanced Microsoft office (Word, Excel and PowerPoint), ScreenCast-O-Matic, Adobe Photoshop, Adobe Premier, NIH Image and various online DNA analysis and primer design programs. Advanced Blackboard and Canvas usage.

PUBLICATIONS

Chris Barnett, **Oya Yazgan**, Hui-Ching Kuo, Sreepurna Malakar, Trevor Thomas, Amanda Fitzgerald, Billy Harbour, Jonathan J. Henry and Jocelyn E. Krebs. 2012. Williams Syndrome Transcription Factor is critical for neural crest cell function in *Xenopus laevis*. *Mechanisms of Development* 129(9-12): 324-338.

Oya Yazgan and Jocelyn E. Krebs. 2012. Mitochondrial and nuclear genomic integrity after oxidative damage in *Saccharomyces cerevisiae*. *Front Biosci* 17:1079-93.

Harrison, B.R., **Yazgan, O.** and Krebs, J.E. 2009. Life without RNAi: Non-coding RNAs and their functions in *S. cerevisiae*. *Biochem Cell Biol* 87(5): 767-79.

Oya Yazgan and Jocelyn E. Krebs. 2007. Non-coding but non-expendable: Transcriptional regulation by large noncoding RNA in eukaryotes. *Biochem Cell Biol* 85(4): 484-96.

John D. Moore, **Oya Yazgan**, Yeganeh Ataian and Jocelyn E. Krebs. 2007. Diverse roles for histone H2A modifications in different DNA damage response pathways. *Genetics* 176:15-25.

Wallrath, L.L., J.R. Danzer, **O. Yazgan**, and P.K. Geyer (2004). Nuclear organization, chromatin structure and gene silencing, In Encyclopedia of Biological Chemistry (W.J. Lennarz & M.D. Lane, eds), Elsevier, Oxford, Vol 3: pp. 105-108.

Yazgan, O. 2002 Ph.D. Dissertation. Functional Characterization of two JunD isoforms. Texas Tech University, Health Sciences Center, Lubbock, TX.

Yazgan, O. and C. M. Pfarr. 2002. Regulation of two JunD isoforms by Jun-N-terminal kinases. Journal of Biological Chemistry 277(33):29710-18.

Yazgan, O. and C. M. Pfarr. 2001. Differential binding of the Menin tumor suppressor protein to JunD isoforms. Cancer Research 61: 916-920.

Yazgan, O. 1994 Masters Thesis. Characterization of the propanediol dehydratase gene in *Salmonella typhimurium*. Texas Tech University, Lubbock, TX.

CONFERENCES AND PRESENTATIONS

Oya Yazgan, Shannon R. Uffenbeck, Jocelyn E. Krebs. 2010. Presented poster: A single point mutation does it all: characterization of the H2A S122A strain in *Saccharomyces cerevisiae*. 2010 FASEB Summer Research Conferences: Yeast Chromosome Structure, Replication and segregation. Carefree, AZ.

Benjamin R. Harrison, **Oya Yazgan** and J. E. Krebs. 2008. Regulation of the *CUP1* gene by chromatin structure and antisense transcription. 30th International Asilomar Chromatin and Chromosomes Conference, Pacific Grove, CA.

Oya Yazgan, S. Engler and J.E. Krebs. 2007. Regulation of the *CUP1* gene by chromatin structure and antisense transcription. FASEB Summer Research Conference: Chromatin and Transcription. Snowmass Village, CO.

Oya Yazgan and J.E. Krebs. 2007. Presented talk: Transcriptional regulation of the *CUP1* gene in *Saccharomyces cerevisiae*, 3rd Annual University of Alaska Biomedical Research Conference, Fairbanks, AK.

Oya Yazgan and J.E. Krebs. 2006. Presented talk: Transcriptional regulation of copper homeostasis in *Saccharomyces cerevisiae*. 28th International Asilomar Chromatin and Chromosomes Conference, Pacific Grove, CA.

Oya Yazgan and J.E. Krebs. 2006. Presented talk: Autoregulation of the *CUP1* gene in *Saccharomyces cerevisiae*, 2nd Annual University of Alaska Biomedical Research Conference, Anchorage, AK.

Oya Yazgan and J.E. Krebs. 2005. Presented talk: Autoregulation of *CUP1* gene in *Saccharomyces cerevisiae*. 27th International Asilomar Chromatin and Chromosomes Conference, Pacific Grove, CA.

B.S. Pinto, S.R. Wilmington, **O. Yazgan**, C.W. McDonough, D. Nalbant, L.L. Wallrath, and P.K. Geyer. 2005. A Study of the LEM Domain Proteins in *Drosophila*: Characterization of the Putative MAN1 Homologue; The American Society for Cell Biology, Summer Meeting on Nuclear Architecture and Disease, Ames, IA.

Oya Yazgan, Astrid Skjesol and Pamela K. Geyer. 2004. Presented poster: Role of BTB/POZ domain proteins in establishing independent domains of gene function. Midwest Drosophila Meeting, Allerton Park, IL.

Oya Yazgan and P.K. Geyer. 2004. Presented poster: Role of BTB/POZ domain proteins in establishing independent domains of gene function. Research Week 2004, Carver College of Medicine, University of Iowa, IA.

M. Viering, **Yazgan, O.**, Skjesol, A., Lokere, J., C.T. Wu and P. Geyer. 2003. Prepared and presented the poster: Insulator bypass induced by chromosome pairing at the *yellow* gene. 44th Annual Drosophila Research Conference, Chicago, IL.

C.M. Pfarr, N. Makarava, B. Favreau, **O. Yazgan**, J.D. Short, A. Hockert and M. Dyson. 2003. Characterization of two JunD isoforms: JunD-FL and Δ JunD. Sixteenth IGB meeting— Molecular biology, genetics and pathology of AP-1transcription factors. Capri, Italy.

Yazgan, O and Curt M. Pfarr. 2001. Presented poster: Characterization of the two JunD isoforms. Annual Meeting of American Society for Cell Biology, Washington, DC.

Yazgan, O and Curt M. Pfarr. 2000. Presented poster: Interaction of two isoforms of JunD with the Jun-N-terminal kinases. 52nd Annual Symposium on Fundamental Cancer Research, MD Anderson Cancer Center, Houston, TX.

Zarrinabadi (Yazgan), O and R. Jeter. 1993. Presented poster: Characterization of the propanediol dehydratase gene in *Salmonella typhimurium*. Annual Meeting of the Society for Microbiology, Las Vegas, NV.

HONORS AND AWARDS

- 2006** Best Oral Presentation Award, 2nd Annual University of Alaska Biomedical Research Conference, Anchorage, AK.
- 2004-2005** American Heart Association Postdoctoral Fellowship.
- 2002** Student Research Day Poster Competition Award, Department of Cell Biology and Biochemistry, Texas Tech University HSC, Lubbock, TX.
- 2001** Student Endowed Scholarship, Texas Tech University HSC, Lubbock, TX.
- 2001** American Society for Cell Biology Predoctoral Student Travel Award, Lubbock, TX.
- 2001** Student Research Day Poster Competition Award, Department of Cell Biology and Biochemistry, Texas Tech University HSC, Lubbock, TX.
- 1999** Student Research Day Poster Competition Award, Department of Cell Biology and Biochemistry, Texas Tech University HSC, Lubbock, TX.
- 1993** Paul Whitfield Scholarship, Texas Tech University, Lubbock, TX.
- 1992** Summer Research Award, Department of Biological Sciences, Texas Tech University, Lubbock, TX.
- 1984-1988** Dean's Honor List, Middle East Technical University, Ankara, Turkey.

MEMBERSHIP IN SOCIETIES

- 2016-** American Society for Microbiology
- 2008-2012** American Association for the Advancement of Science (AAAS)
- 2002-2004** Genetics Society of America
- 2001-2003** American Society for Cell Biology
- 1992-1994** American Society for Microbiology

SERVICE TO COMMUNITY

- INTEL International Science and Engineering Fair, Grand Award Judge in Cellular and Molecular Biology. Phoenix, AZ. May 10-11, 2016.
- ASU Night of the Open Door, Polytechnic Campus. Presented at the Biology display tables. February 2016 and 2017.