HATICE NEVAL ERTURK, PH.D.

Converse University
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EDUCATION

Virginia Polytechnic Institute and State University, Blacksburg, VA – USA, Biology, Ph.D.	1999
Hacettepe University, Ankara – Turkey, Biology, M.Sc.	1990
Hacettepe University, Ankara – Turkey, Biology, B.Sc.	1987

ADDITIONAL COURSE WORK

Summer Institute of Linguistics, Auckland – New Zealand	2003
Certificate in Anthropology & Linguistics, 18 graduate hours	
Converse College, Spartanburg, SC – USA	2014
Master in Liberal Arts in History and Politics (15 graduate hours)	

PROFESSIONAL SUMMARY

I am an award-winning science educator dedicated to promoting scientific research and excellence in higher education. I have an extensive and successful track record for planning, securing funding, coordinating and executing science research, outreach, and education programs, including managing staff, budgets, and compliance. Under my leadership, the Office of Research and Engagement at Converse University has secured more than $2 million in funding from the NIH, NSF, and private foundations.

PROFESSIONAL APPOINTMENTS

Converse University, Spartanburg, SC **2006–present**

Associate Provost for Research and Engagement **2022–present**

- Increased research budget from $0 to $100,000 annually. Funding secured via NIH, NSF, and foundation grants.
- Managed increasingly a higher budget (from $0 to $50,000, to $100,000 and most recently, $300,000) annually.
- Coordinated appropriate distribution of research funding to faculty and students.
- Authored successful grant proposals which obtained $980,000 in grant funding to establish an institutional undergraduate research program in biomedical sciences and provide research experiences for teachers in South Carolina from NSF and NIH.
- Founded the RISE Symposium, a day dedicated to celebrating and highlighting the diverse range of experiential learning experiences, including research, internship, creative activity, service learning, Model NATO, and other immersive learning opportunities. Over 100 students present their experiences at the symposium.
- Founded Faculty Writing Group which provides support, community, and accountability for scholars on academic writing. Attended by approximately 10% of full time faculty weekly.
- Established Faculty Symposia, a monthly event that provides a platform for faculty to share and learn more about each other's research. Attended by 30% of full time faculty each month.
- Lunch and Learn educational experiences designed to enrich the teaching practice of faculty by focusing on various pedagogical practices, such as gamification of courses, notetaking

techniques, the use of case studies, etc. Monthly meetings are attended by about 20% of full time faculty.

- Developed an integrated marketing plan to increase the visibility of research activities by (1) publishing a "Scholarship and Excellence at Converse University," which publicizes faculty accomplishments such as awards and honors, books, publications, conference presentations, advanced degrees earned, promotions and tenure granted; (2) "RISE Symposium Proceedings," which provides a venue for students to publish student abstracts, reviewed by faculty; (3) creating a Social Media Coordinator internship position to increase the visibility of the Office of Research and Engagement and university-wide research activities; (4) holding receptions to celebrate faculty accomplishments and professional achievements; (5) publishing a monthly newsletter; and (6) developed toolbox of logos and templates for implementation of branding of the office. These publications are presented to the Board of Trustees as an annual report by the university's President at the end of the academic year.
- Streamlined research-related announcements, and applications, and processes via creating an intranet page for faculty, staff, and students.
- Established and secured funding for the giving of honorarium to research mentors which resulted in a 9% increase in research participation in the university-wide research activity in all disciplines across the campus.
- Secured funds and completed the renovation of a physical Office of Research and Engagement, which promoted a culture of belonging and increased collaborative research activity among faculty and students.
- Conducted a STEM Diversity study to understand the unique needs of underrepresented minority and first-generation college student populations at Converse University.

Chair of the Department of Biology, Chemistry, and Physics 2010–2019

- Led the growth of the department from 6 tenure track/tenured positions to 9 tenure track/tenured positions.
- Managed the departmental budget for three programs (biology, chemistry, and physics) and grant accounts for the STEM programs.
- Directed two self-studies to align biology and chemistry curriculums with national trends which resulted in the department's recognition with a university-wide curriculum development award.
- Steered the incorporation of research into the curriculum. Every biology, chemistry, and biochemistry major is required to conduct research under the supervision of a science faculty member.
- Directed the establishment of an articulation agreement for the medical technology program with Anhui Medical School in China. Over 80% of graduating students are pursuing advanced degrees at institutions including Carnegie Mellon University and King's College in London.
- Completed annual assessment reports and submitted to the Director of Institutional Research.
- Completed annual evaluation letters for all tenured, tenure-track, and adjunct faculty.
- Completed tenure and promotion evaluations for all tenure-track faculty.
- Served as external evaluator for tenure and promotion dossiers at peer institutions.

Director of the Office of Research **2009–present**

- Founded and secured funds for Converse University Faculty Pilot Grants, a competitive internal funding mechanism designed to stimulate research collaborations and scholarly output. Each year 4 pilot grants are funded. Funded faculty are required to submit progress reports and present their research during a Faculty Symposium.
- Co-founded the interinstitutional South Carolina Upstate Research Symposium, which brings over 200 presenters together every year from universities in the Southeastern United States (participants from VA, NC, SC, GA, TN, FL).
- Managed budgets and ensured compliance with billing guidelines
- Established Grant Writing and Grant Draft Workshops to provide potential applicants with guidance and assistance in proposal development and grants management and to provide feedback for grant proposals in development.
- Secured grant funding ($350,000) from the South Carolina INBRE/National Institute of Health–National Institute of General Medical Sciences, and from private foundations (Fullerton Foundation) for the establishment or renovation of two rodent and one invertebrate research facilities and one tissue culture, one endocrine physiology, and one molecular biology research laboratory.
- Established research partnerships, grant collaborations, and visiting scholar programs with other South Carolina higher education institutions and with public school systems.
- Transitioned the institution from a small undergraduate research program to a multimillion-dollar SC-INBRE research partner.
- Received the Minority Access Incorporated's National Role Model for Faculty Research Award, Converse University's highest faculty honor, the O'Herron Faculty Excellence Award, and recognition from the South Carolina Academy of Science for excellence in the support and development of talent and research.
- Developed research compliance policies and standard operating procedures, including the writing of the Institutional Animal Care and Use policy and securing an Office of Laboratory Animal Welfare (OLAW)–Division of Public Health Services (PHS) Approved Animal Welfare Assurance.

Director of Science, Technology, and Research Scholar (STARS) Program 2012–present

- Founder of the STARS program at Converse University.
- Secured funding from foundations and South Carolina INBRE/National Institute of Health for research and student salary.
- Managed the budget for programs and grant accounts for the STEM programs.
- In the last 15 years, over 100 high school students from four local high schools participated in the program with 20 plus regional and national awards and thousands of dollars in scholarships.
- After a decade-long study of STEM outreach initiatives developed three outreach models:
  - *Love Science, Wanna be a Scientist:* Provides competitive on-campus research opportunities for talented high school students by pairing students with faculty.
  - *Love Science, but Not Sure:* Students are placed in two-week summer research rotations in different disciplines to explore various STEM fields.
  - *What is STEM???:* Designed for youth who are not familiar with STEM disciplines. Curriculum matched hands-on experiences for high school STEM classes.
- Contributions to science research have been recognized with InnoVision South Carolina's Ibrahim Janajreh Young Innovator Award.

Professor of Biology (tenured)	**2016–present**
Associate Professor of Biology (tenured)	**2010–2016**
Assistant Professor of Biology	**2006–2010**
Gibbs Cancer Center & Research Institute, Spartanburg, SC Visiting Researcher	**2014–2015**
North Greenville University, Tigerville, SC Assistant Professor of Biology	**2005–2006**
The Navigators, Portland, OR Recruitment and Mobilization Coordinator	**2003–2005**
International Student Ministries, Palmerston North, New Zealand International Student Specialist & Re-Entry Specialist	**1999–2003**

GRANTS

Erturk, H. N. BIORETS, Science, Technology, and Research (STAR) Teachers of South Carolina. National Science Foundation. **Total $592,000.**	**2023–2028**
Goldsmith, E., Erturk, H. N. South Carolina IDeA Networks of Biomedical Research Excellence (SC-INBRE). National Institutes of Health. **Total $640,000.**	**2020–2025**
Pirisi-Creek, L., Erturk, H N. South Carolina IDeA Networks of Biomedical Research Excellence (SC-INBRE). National Institutes of Health. **Total $410,000.**	**2015–2020**
Erturk, H. N., and Kennedy, M., STEM Scholarship, Grantor: Duke Energy Foundation. **Total $100,000**.	**2014**
Erturk, H. N., and Kennedy, M., Acquisition of laboratory equipment for chemistry and biology laboratories, Grantor: Fullerton Foundation. **Total $60,000.**	**2013–2015**
Erturk, H. N., Brotherton, J., Steward, B., Creating Pipelines for Science Education in Spartanburg County, Grantor: Spartanburg County Foundation. **Total $5,000.**	**2013–2014**
Erturk, H. N. with Converse students, three Belle Baruch Foundation STEM Outreach grants. **Total $15,000.**	**2011–2013**
Erturk, H. N., with Converse students, nine South Carolina Independent Colleges and Universities Faculty Sponsored Undergraduate Research grants. **Total $23,000.**	**2007–2014**
Erturk, H. N with collaborators, six Converse University Creative Collaborations Grants. **Total $29,000.**	**2009–2021**
Pirisi-Creek, L., Wheeler, J., Hestermann, E.V., Erturk, H. N. South Carolina IDeA Networks of Biomedical Research Excellence (SC-INBRE). National Institutes of Health 2P20 RR016461, 2010–2015. **Total $87,500.**	**2010–2015**
Erturk, H. N. with Converse Students, one Converse College Nisbet Honor Program grant. **Total $4,200.**	**2010–2011**
Erturk, H. N., Service Learning Course Development Grant, Grantor: Teagle Foundation and Converse College Grant Consortium. **Total $1,000.**	**2009–2010**
Erturk, H. N. with Converse Students, Converse College Faculty Excellence Funds grant	**2007–2023**

Total $8,200.

Erturk, H. N., Title: Li-Cor Genomics Education Funds Program, Grantor: Li-Cor BioSciences. **Total $125,000.** **2007**

Unlu, H., Erturk., H. N., Emecen, G., Grantor: The Scientific and Technical Research Council of Turkey. **Total $125,000.** **1991–1992**

RESEARCH INTEREST

- Effect of adenosine subtype receptors on temporal perception
- Comparative toxicology of medicinal plants (in vivo and in vitro)
- Effective science outreach strategies for disabled and under-served populations

AWARDS AND DISTINCTIONS

Dr. Jeffrey H. Barker Faculty Excellence Award, Converse University **2023**

O'Herron Faculty Excellence Award, Converse University **2021**

Ibrahim Janajreh Young Innovator Award, InnoVision South Carolina **2018**

Minority Access, Inc. National Role Model for Faculty Research, Minority Access Incorporated, Washington D.C. **2017**

Curriculum Innovation Award, Converse College **2015**

Scholarly and Creative Achievement Award, Converse College **2012**

Student Service: Above and Beyond Award, Converse College **2012**

Plaque of Recognition for supporting the research and scholarly efforts of faculty and students in the Upstate of South Carolina, The South Carolina Upstate Research Symposium **2012**

Certificate of Recognition for excellence in the support and development of talent and research in the State of South Carolina, South Carolina Academy of Science **2011**

Nominee, Governor's Award for Excellence in Science Outreach **2010**

Excellence in Teaching Award, South Carolina Independent Colleges and Universities **2008**

Earthwatch Educator Fellowship, Project Title: Mexican mangroves and wildlife, Educator Team Member, Raymond Cash Foundation **2006**

Higher Education Council of Turkey, Hacettepe University, Ph.D. Scholarship, Ankara, Turkey **1992–1997**

Third Place, Title: Observation of the chromosomal effects of hydrochlorides by using *Drosophila* experimental system, Science Project Competition among Seniors, Hacettepe University, Biology Department, Ankara, Turkey **1997**

PUBLICATIONS

PEER REVIEWED

(Students are in bold.)

Steele, E., **Davidson, M**., Varnon, C. A., Erturk, H. N. (*in prep*) Exposure to sublethal concentration of glyphosate, 2,4-D and their combined formulation induces oxidative stress in *Eisenia fetida. In preparation, will be submitted to PLOS ONE.*

Keen, R., **Hardy, D., Jose, B**., and Erturk, H.N. (*in revision*) Effects of Caffeine on Temporal Perception. *In preparation, will be submitted to PLOS ONE.*

Alscher, R. G., Erturk, H. N. and Heath, L. S. (2002) Antioxidants and Reactive Oxygen Species in Plants: Role of superoxide dismutases (SODs) in controlling oxidative stress in plants. *Journal of Experimental Botany*, 53(372), 1331–1341.

Erturk, H. N. and Esen, A. (1995) A β-glucosidase aggregating factor (BGAF) is present in "null" genotypes of maize. *Maize Genetics Newsletters,* 69:25–26.

Erturk, H. N. and Unlu, H. (1991) The phenotypic abnormalities caused by an organophosphorus insecticide, Dichlorvos (DDVP), in *Drosophila melanogaster*. *Doga-Tr. Journal of Zoology*, 15:76–83.

Erturk, H. N. and Unlu, H. (1991) The effects of dichlorvos (DDVP), on crossing-over in *Drosophila melanogaster*. *Doga-Tr. Journal of Biology*, 15:139–143.

Unlu, H. and Erturk, H. N. (1991) The effects of dichlorvos (DDVP), on sex-ratio in *Drosophila melanogaster*. *Doga-Tr. Journal of Zoology*, 15:177–184.

OTHER SCHOLARLY PUBLICATIONS

(Students are in bold. * Indicates student award.)

Strickland, S. and Erturk, H. N. (2010) Teaching Science through Forensic Case Studies, EduLearn10 International Conference on Education and New Learning Technologies, Conference Proceedings, ISBN: 978-84-613-5538-9.

Erturk, H. N. and Keen, R. (2010) An investigation of using textbook annotations as a study aid for college students. EduLearn10 International Conference on Education and New Learning Technologies, Conference Proceedings, ISBN: 978-84-613-5538-9.

Erturk, H. N. and Glenn, B. (2009) Science Theater—An innovative interdisciplinary approach to teaching science and performing arts, International Conference on Education, Research and Innovation, Conference Proceedings, ISBN: 978-84-613-9386-2, Madrid, Spain.

Fedina, C., Keen, R. and Erturk, H. N (2010) The Effects of Annotations on Test Performance. Conference Proceedings of Sixth Annual USC Upstate Research Symposium. pp. 11–14.

* **Powell, E., Arzeta-Ferrer, X., Obregon, V., Renaud, S.**, Keen, R. and Erturk, H. N (2010) Identifying the Role of Adenosine Receptor Subtypes in Temporal Perception. Conference Proceedings of Sixth Annual USC Upstate Research Symposium. pp. 53–56.

*** Obregon, V.** and Erturk, H. N (2010) Inhibition of Colchicine-Induced Genotoxicity in Rats by Herbal Supplement CanImmu Conference Proceedings of Sixth Annual USC Upstate Research Symposium. pp. 57–59.

Shorter, K. and Erturk, H.N. (2008) Investigation of the Genotoxicity of Carbaryl, A Potential Surface and Ground Water Contaminant. *The Journal,* pp. 42–45. Water Environment Association of South Carolina.

Prouty, D., Burdette, M., Thomas, B., Erturk, H. N., and Keen, R. (2008) Effects of High vs Low Dose Caffeine on Temporal Perception, Conference Proceedings of Fourth Annual USC Upstate Research Symposium. pp. 39–41.

Erturk, H. N. and Erturk, B. (2008) Relationship between the leaf age and antioxidant enzyme activity. Conference Proceedings of Fourth Annual USC Upstate Research Symposium. pp. 45–48.

Shorter, K. and Erturk, H. N. (2008) Investigation of the genotoxic effects of the pesticide Sevin, Conference Proceedings of Fourth Annual USC Upstate Research Symposium. pp. 66–68.

Erturk, H. N. and Esen, A. (1995) A β-glucosidase aggregating factor (BGAF) is present in "null" genotypes of maize. *Maize Genetics Newsletters,* 69:25–26.

PRESENTATIONS AT INTERNATIONAL AND NATIONAL MEETINGS

(* indicates a student award. Students are in bold)

ORAL PRESENTATIONS

Erturk, H. N. (2022) Development of Three Innovative STEM Outreach Models in a Small University, EPSCoR, Education, Outreach, & Diversity Conference, Isle of Palms, SC.

Ding, W., He, W., Wang, Y., Zhou, J. and Erturk, H. N. (2021) Effects of long term consumption of *Cordyceps militaris* and *Cordyceps* mushroom mix on oxidative stress and liver health in rats. SC INBRE Science Symposium, Columbia, SC.

*Erturk, H. N. and **Oyler, D.** (2011) Merging Science and Service: An Interdisciplinary Biology and American Sign Language Service Project, Oral Presentation, Association of College and University Biology Educators Annual Meeting, Harrogate, TN.

Obregon, V., E. V. Hestermann, H. N. Erturk, (2011) "Silencing AhR Expression Through siRNA," South Carolina Academy of Sciences, Orangeburg, SC.

Erturk, H. N. (2010) Educational applications of Web 2.0 Technologies: An introduction to WordPress, 54nd ACUBE Annual Meeting, Sylvania, OH

Erturk, H. N. and Keen, R. (2010) An investigation of using textbook annotations as a study aid for college students. EduLearn10 International Conference on Education and New Learning Technologies, Barcelona, Spain.

Erturk, H. N. and Glenn, B. (2009) Science Theater—An innovative interdisciplinary approach to teaching science and performing arts, International Conference on Education, Research and Innovation, Madrid, Spain.

* **Powell, E., Arzeta-Ferrer, X., Obregon, V., Renaud, S.**, Keen, R. and Erturk, H. N, 2010. The Role ofAdenosine Receptor Subtypes in Time Perception, Georgia Undergraduate Research Conference, Kennesaw, GA.

* **Obregon, V., Arzeta-Ferrer, X., Childs, A,** and Erturk, H. N. (2010) Inhibition of Colchicine-Induced Genotoxicity in Rats by Herbal Supplement CanImmu, Annual Association of Southeastern Biologist and Beta Beta Beta Meeting, Asheville, NC.

* **Powell, E., Arzeta-Ferrer, X., Obregon, V., Renaud, S**., Keen, R. and Erturk, H. N. (2010) Identifying the Role of Adenosine Receptor Subtypes in Temporal Perception, 6th Annual South Carolina Upstate Research Symposium, Spartanburg, SC.

* **Fedina, C.,** Keen, R. and Erturk, H. N. (2010) The Effects of Annotations on Test Performance, 6th Annual South Carolina Upstate Research Symposium, Spartanburg, SC.

* **Obregon, V.** and Erturk, H. N. (2010) **Inhibition of Colchicine-Induced Genotoxicity in Rats by Herbal Supplement CanImmu,** 6th Annual South Carolina Upstate Research Symposium, Spartanburg, SC.

Erturk, H. N. and Strickland, S. (2008) CSI Converse Summer Workshops-A Model for Promoting and Increasing Participation of High School Students in Sciences, 52nd ACUBE Annual Meeting, Hopkinsville, KY.

Erturk, H. N. and Erturk, B. (2008) Relationship between the Leaf Age and Antioxidant Enzyme Activity, 19th National Biology Congress, Trabzon, Turkey.

Shorter, K. and Erturk, H. N. (2008) Effects Oral Presentation: An Investigation of the Genotoxic Effects of the Pesticide Sevin, Association of Southeastern Biologists, Spartanburg, SC.

Prouty, D., Burdette, M., Thomas, B., Erturk, H. N. and Keen, R. (2008) Effects of Caffeine on Time Perception, Association of Southeastern Biologist, Spartanburg, SC.

*** Prouty, D.; Burdette, M., Thomas, B.,** Keen, R., and Erturk, H. N. (2008) Effects of Caffeine on Time Perception, Georgia Undergraduate Research Conference, Kennesaw, GA.

*** Shorter, K.** and Erturk, H. N. (2008) An Investigation of the Genotoxic Effects of the Pesticide Sevin, Fourth Annual USC Upstate Research Symposium, Spartanburg, SC.

Shorter, K. and Erturk, H. N. (2008) An Investigation of the Genotoxic Effects of the Pesticide Sevin, SCICU Symposium, Greer, SC.

Prouty, D., Burdette, M., Thomas, B., Erturk, H. N., and Keen, R. (2008) Effects of Caffeine on Temporal Perception, SCICU Symposium, Greer, SC

Erturk, H. N. and **DeBruhl, M. C. (**2007) Workshop: Stressed by Oxygen—A Laboratory Exercise for Introductory Cell Biology Classes, ACUBE Annual Meeting, Dubuque, IA.

Erturk, H. N. and Alscher, R. (1998) Responses of Superoxide Dismutases to Oxidatative Stress in Arabidopsis, Southern Section of American Society of Plant Physiologist, Annual Meeting, Roanoke, VA.

Erturk, N. and Alscher, R., (1997) Occurrence of FeSOD in Arabidopsis and its relation to resistance, American Society of Plant Physiologists, Washington Area Section Annual Meeting, Washington, D.C.

Erturk, N. and Esen, A. (1995) β-glucosidase aggregation in "null" genotypes of maize, American Society of Plant Physiologists, Annual Meeting, Charlotte, NC.

Erturk, N. and Esen, A. (1995) A β-glucosidase aggregating factor (BGAF) is present in "null" genotypes of maize, 37th Annual Maize Genetics Conference, Monterey, CA.

Erturk, N. and Unlu, H. (199) The effects of Dichlorvos on recombination in Drosophila melanogaster, 10th National Biology Conference, Erzurum, Turkey.

POSTER PRESENTATIONS

White, K., Powell, A.J., Camargo, N., Glass, K, Keen, R., and Erturk, H. N. (2023) The Effects of Adenosine on Temporal Perception, SC Upstate Research Symposium Spartanburg, SC.

White, K., Powell, A.J., Camargo, N., Glass, K, Keen, R., and Erturk, H. N. (2023) The Effects of Adenosine on Temporal Perception, SC INBRE Science Symposium, Columbia, SC.

Brown, K., Erturk, H. N. Bohler, M., Varnon, C. (2023) Optimization of nucleic acid isolation in *Eublaberus posticus.* SC INBRE Science Symposium, Columbia, SC.

Waters, M., Nitz, H., Erturk, H. N. (2022) Effects of *Cordyceps militaris* and *Cordyceps sinensis* on the Viability and Migration of Cancerous vs. Non-cancerous Keratinocytes, Converse University, RISE Symposium, Spartanburg, SC.

Waters, M., Nitz, H., Grigg, Savannah, Powell, A.J. Keen, R., and Erturk, H.N. (2022) The Role of Adenosine Subtype Receptors on Temporal Perception, Converse University RISE Symposium, Spartanburg, SC.

Waters, M., Nitz, H., Erturk, H. N. (2022) Effects of *Cordyceps militaris* and *Cordyceps sinensis* on the Viability and Migration of Cancerous vs. Non-cancerous Keratinocytes, Converse University, SC INBRE Science Symposium, Columbia, SC.

Waters, M., Nitz, H., Grigg, Savannah, Powell, A.J. Keen, R., and Erturk, H. N. (2022) The Role of Adenosine Subtype Receptors on Temporal Perception, SC INBRE Science Symposium, Columbia, SC.

Campbell, J., Parker, E., Erturk, H. N. (2020) Changes in the Gene Expression of Albino Wistar Rat Livers by *Ophiocrodyceps sinensis* and *Ganoderma lucidum*, VCOM Science Symposium, Spartanburg, SC.

Jones, B. and Erturk, H. N., 2020. Developing and Optimizing Methodology for Ex Ovo Cultivation of Chicken Embryo Models for Investigation of Angiogenesis, SC INBRE Science Symposium, Columbia, SC.

Campbell, J., Parker, E., Erturk, H. N. (2020) Changes in the Gene Expression of Albino Wistar Rat Livers by *Ophiocrodyceps sinensis* and *Ganoderma lucidum*. SC INBRE Science Symposium, Columbia, SC.

Rabuske S., Walker E., and Erturk, H. N. (2019) Effects of *Ophiocordyceps sinensis* Extracts on the Viability and Migration of Cancerous vs. Non-cancerous Skin Cell Lines, Integrative Omics Conference Santa Fe, NM.

Walker E., **Giep A.** and Erturk, H. N. (2019) Effects of *Ganoderma lucidum* extracts on the viability and migration of cancerous vs. non-cancerous breast cancer cell lines. Integrative Omics Conference Santa Fe, NM.

Heaven R. and Erturk H. N. (2019) Ex-ovo cultivation of chicken embryo models for investigation of angiogenesis, Annual INBRE Symposium, Columbia, SC.

* **Oyler, D.** and Erturk, H. N. (2011) Investigating the Effectiveness of Hands-on Activities for Teaching Biology to Deaf High School Students, Poster Presentation, Association of College and University Biology Educators Annual Meeting, Harrogate, TN.

V. Obregon, E. V., Hestermann, Erturk, H. N. (2011) "Investigation of the Antigenotoxic Properties of Herbal Supplements Reishi, *Cordyceps*, and CanImmu" 2011 Southeast Regional IDeA Meeting, New Orleans, La.

Strickland, S. and Erturk, H. N. (2010) Teaching Science through Forensic Case Studies, EduLearn10 International Conference on Education and New Learning Technologies, Barcelona, Spain.

* **Fedina, C.,** Keen, R. and Erturk, H. N. (2010) The Effects of Annotations on Test Performance. Georgia Undergraduate Research Symposium, Kennesaw, GA.

Powell, E., Arzeta-Ferrer, X., Obregon, V., Renaud, S., Keen, R. and Erturk, H. N. (2010) An Investigation of the Role of Adenosine Receptor Subtypes in Temporal Perception, Annual Association of Southeastern Biologist and Beta Beta Beta Meeting, Asheville, NC..

Powell, E., Arzeta-Ferrar, X., Shearsmith, A., Erturk, H. N., and Keen, R. (2009) An investigation of oral versus intraperitoneal administration on time perception The annual Meeting of the Georgia Undergraduate Research in Psychology, Kennesaw, GA.

Erturk, H. N. (2008) Using Textbook Annotations as an Assessment Tool, 52nd ACUBE Annual Meeting, Hopkinsville, KY.

Prouty, D., Burdette, M., Thomas, B., Erturk, H. N., and Keen, R. (2008) Effects of High vs Low Dose Caffeine on Temporal Perception, Fourth Annual USC Upstate Research Symposium, Spartanburg, SC,

*** Shorter, K.** and Erturk, H. N. (2008) An Investigation of the Genotoxic Effects of the Pesticide Sevin, a Ground Water Contaminant, South Carolina Environmental Conference, Myrtle Beach, SC.

DeBruhl, M. C. and Erturk H. N. (2007) A Laboratory Exercise for Introductory Cell Biology Classes: Examining the Antioxidant Enzymatic System and its Responses to Stress, ASPB Annual Meeting, Chicago, IL.

Erturk, H. N. and Alscher, R. (1997) Effects of methyl viologen (paraquat) stress on SODs of Arabidopsis seedlings: protein, enzyme and transcript responses, American Society of Plant Physiologists, Annual Meeting, Vancouver, Canada.

Erturk, N. and Esen, A. (1995) β-glucosidase aggregating factor (BGAF) in "null" genotypes of maize, Virginia Tech Graduate Student Assembly, Annual Meeting, Blacksburg, VA.

RELEVANT SEMINARS

Erturk, H. N. (2011) Investigation of the Antigenotoxic Properties of Herbal Supplements Reishi, *Cordyceps*, and CanImmu" Invited Speaker, Furman University, Greenville, SC.

Erturk, H. N. (2010) Caffeine and Time, Science Forum Invited Speaker, Converse College, Spartanburg, SC.

Erturk, H. N. (2007) Use of Novel Bioinformatics Tools in Phylogenetic Tree Construction, Invited Speaker, Mersin, Turkey.

Erturk, H. N. (2006) Saving Crocodiles—An Earthwatch Project, SC Junior Academy of Sciences, Converse College, Spartanburg, SC.

Erturk, H. N. (2007) Science and Gender, Women's History Month Presentations, Converse College, Spartanburg, SC.

Erturk, H. N. (2006) Saving Mangroves, Saving Crocodiles, Science Forum, Converse College, Spartanburg, SC.

Kasey, B., Lewis, C., Erturk, H. N. (2006) Effects of Pesticide Sevin on Recombination Rates in Drosophila melanogaster, Biannual Science Division Meeting on Special Studies, North Greenville University, Tigerville, SC.

Kittle, K. and Erturk, H. N. (2005) Effects of Highlight Stress on Plant Protein Production, Biannual Science Division Meeting on Special Studies, North Greenville University, Tigerville, SC.

Erturk, H. N. (1998) Responses of superoxide dismutases of oxidative stress in Arabidopsis thaliana, Virginia Tech, PPWS and Biology Departments, Blacksburg, VA .

Erturk, H. N. (1998) Oxidative stress in Arabidopsis, Interdepartmental Plant Physiology Seminar, Virginia Tech, IPPS, Blacksburg, VA

Erturk, H. N. (1996) Occurrence of FeSOD in Arabidopsis, Plant Molecular Biology Meeting, Virginia Tech, Plant Molecular Biology Group, Blacksburg, VA.

Erturk, H. N. (1995) β-glucosidase aggregating factor (BGAF) in maize, Botany Seminar, Virginia Tech, Biology Department, Blacksburg, VA.

Erturk, H. N. (1991) Mutagenicity test systems in mammals, Graduate Student Seminar, Hacettepe University, Biology Department, Ankara, Turkey.

Erturk, H. N. (1989) Mutagenic effects of inhalation anesthetics, Graduate Student Seminar, Hacettepe University, Biology Department, Ankara, Turkey.

THESIS COMMITTEES

Meagan Waters, Honors in the Field Thesis Advisor **May 2022**

Title: The Effects of *Cordyceps sinensis* and *Cordyceps militaris* on Cell Viability and Migration on Cancerous vs. Non-Cancerous Human Keratinocytes.

Brittni Jones, Honors in the Field Thesis Advisor **May 2018**

Title: Developing and Optimizing Methodology for Ex-Ovo Cultivation of Chicken Embryo Models for Investigation of Angiogenesis.

Julia Campbell, Honors in the Field Thesis Advisor **May 2018**

Title: Changes in Gene Expression in Rat Livers by *Ganoderma lucidum*.

Emily Gail Parker, Honors in the Field Thesis Advisor **May 2018**

Title: The Effects of *Ophiocordyceps sinensis* on Gene Expression in Rat Liver

Ashley Thompson, Honors in the Field Thesis Director **May 2018**

Title: Analysis of Polyhexamethylene Biguanide Using Double Dialysis Methods, Size Exclusion Chromatography, Ultra High-Performance Liquid Chromatography, and Mass Spectrometry.

Kelsey Barber, Honors in the Field Thesis Advisor **May 2015**

Title: The effect of chronic reishi treatment on scavenging pathway enzymes in rat liver and blood serum

Veronica Obregon, Honors in the Field Thesis Advisor **May 2012**

Title: An investigation of the antigenotoxic properties of herbal supplements reishi and cordyceps.

Nora Nassri, Honors in the Field Thesis Committee Member **May 2008**

Title: Women, Tuberculosis, and capability deprivation: Reexamining John Rawls' emphasis on political rights and liberties

SELECTED COMMITTEES, BOARDS AND AFFILIATIONS

Member, Academic Leadership Council, Converse University, South Carolina INBRE	**2022–present**
Member, Provost Council, Converse University, South Carolina INBRE	**2022–present**
Faculty Member, Honor Board, Converse University, South Carolina INBRE	**2018–2021**
Member, Steering Committee, South Carolina INBRE	**2015–present**
Chair, Inter-institutional Review Board, Faculty Sponsored Student Research Grants, South Carolina Independent Colleges and Universities	**2007–present**
Faculty Advisor, Beta Beta Beta National Biological Honor Society Nu Xi Chapter at Converse University, Spartanburg, SC	**2008–present**
Member, Animal Welfare Committee, Converse College, Spartanburg, SC	**2007–present**
South Carolina Academy of Science (SCAS)	**2008–present**
Member, American Association for the Advancement of Science (AAAS)	**2008–present**
Member, South Carolina Academy of Science Council	**2014–2016**
Business and Professional Women Spartanburg Chapter (BPW of SC) Member	**2014–2020**
Intel International Science and Engineering Fair Advisory Council	**2012–2014**
Co-Chair, Strategic Enrollment Plan-STEM Recruiting Strategies, Converse College	**2012–2013**
Member, Curricular Programs Committee, Natural and Mathematical Sciences Representative, Converse College, Spartanburg, SC	**2012–2013**
Society for Science and the Public (SSP) Member	**2010–2018**
Member, Faculty Senate, Natural and Mathematical Sciences Representative, Converse College, Spartanburg, SC	**2010–2013**
International Scientific Advisory Review Board, International Conference on Education and New Learning Technologies	**2009–2010**
Member, International Scientific Advisory Review Board, International Conference on Education and New Learning Technologies, Barcelona, Spain	**2009–2010**
Chair, Creative Minds Scholarship Day Organization Committee, Converse College, Spartanburg, SC, September	**2008–2011**
Member, Animal Welfare Committee, Wofford College, Spartanburg, SC	**2009–2020**
Member, Program and Organizing Committee, Annual South Carolina Upstate Research Symposium, Spartanburg, SC	**2007–2014**
Chair, Student Awards Committee, Annual South Carolina Upstate Research Symposium, Spartanburg, SC	**2007–2014**

Member of National Steering Committee, Association of College and University Biology Educators **2007–2011**

Member, Spartanburg Science Center Board Spartanburg, SC **2006–2010**

SELECTED PROFESSIONAL DEVELOPMENT

New Mexico–INBRE/National Center for Genome Resources Differential Gene Expression Workshop, Nov, 2018, National Center for Genome Resources, Santa Fe, NM.

Animal Cell and Tissue Culture Techniques, May–August 2010, Furman University, Department of Biology, Greenville, SC.

Assessment in the Biology Classroom: How Do We Evaluate Student Learning?, October 16–18 2008, Association of College and University Biology Educators, Hopkinsville Community College, Hopkinsville, KY.

Plant Cell and Tissue Culture Techniques, June–July 2008, Ege University, Faculty of Engineering, Department of Bioengineering, Izmir, Turkey.

Microscopy for Biosciences, May 2008, Medical University of South Carolina, School of Pharmacy, Charleston, SC.

Innovative Teaching Methods, July 2007, Botanical Society of America, Chicago, IL

Microsatellite/AFLP Advanced Training Program, May 2007, Li-Cor Biosciences, Lincoln, NE.

Infrared Technology DNA Sequencing, February 2007, Li-Cor Biosciences, Spartanburg, SC.

Implementing Bioinformatics in Undergraduate Biology Courses: Exploring Microbiology, January 2007, Molecular Data and Visualization, Bioquest & UCSD, San Diego, CA.

Field Research Training, May-June 2006, Earthwatch Institute, La Manzanillo, Mexico.

Biotechnology Educators Conference, July 2005, Virginia Tech, Blacksburg, VA.

Leader Development Mentor Certification Training, June 2002–February 2004, The Navigators, Colorado Springs, CO.

Workshop for Excellence in Teaching, February, 2002, Bible College of New Zealand, Palmerston North, New Zealand.

Teaching Assistance Workshops and Coaching, January 1997–May 1998, Virginia Tech, Department of Biology, Blacksburg, VA.

Strategies to promote active learning and cooperative learning techniques, October 1997, Virginia Tech, Center for Excellence in Undergraduate Teaching, Blacksburg, VA.

Developing collaborative learning activities for major and non-majors science courses, October 1997, Virginia Tech, Biology Department and Center for Excellence in Undergraduate Teaching, Blacksburg, VA.

Protein isolation, characterization and immunological techniques, June 1992–July 1992, UNDP-Hacettepe University, Ankara, Turkey.

Recombinant DNA technologies in diagnosis, December 1991, The Scientific and Technical Research Council of Turkey, Gebze, Turkey.

New techniques in medical genetics, September 1991, Hacettepe University Medical School, Ankara, Turkey.

Human chromosome analysis techniques, May 1991–June 1991, Hacettepe University, Medical School, Ankara, Turkey.

TEACHING

- Biology of Cancer
- Cell Biology
- Molecular Biology of the Cell
- Genetics
- Scientific Communication
- Senior Seminar
- Human Genetics
- Research Methods
- Environmental and Health Effects of Pollution
- Laboratory Methods in Biomedical Sciences
- Biology of Humans
- Science and Gender
- Human Physiology
- Introductory Biology Sequence

SELECTED COMMUNITY WORK AND VOLUNTEER ACTIVITY

Science Fair Project Director for S.C. Upstate high school students **2010–present**

Science Fair Project Judge for S.C. Upstate high schools **2007–present**

Spartanburg Science Center, Spartanburg, SC **2007–2009**
Board Member
Education Committee Member
Lecture Series Committee Member
Advisory Board Member

Piedmont III Region Science Fair, Spartanburg, SC **2006–2014**
Science Review Committee Chair and Member
Fair Judge for High School Students
Mentor for High School Students
Workshop Presenter for High School and Middle School Teachers

INTEL ISEF **2005–2013**
Symposia Committee Member
Interpreter for Turkish speaker participants

Hands on STEM Activities **2007–present**
Girl Scouts, Spartanburg Meeting Academy, other groups
Forensic Workshops