

HATICE NEVAL ERTURK, PH.D.
Converse College – Department of Biology, Chemistry, and Physics
580 East Main Street Spartanburg, SC 29302
864-596-9210 – Neval.Erturk@Converse.edu

EDUCATION

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

ADDITIONAL COURSE WORK

Certificate in Anthropology & Linguistic Summer Institute of Linguistics, New Zealand	2003
Master in Liberal Arts History and Politics - Converse College, Spartanburg, SC	2014

PROFESSIONAL EXPERIENCE

Converse College, Spartanburg, SC Chair-Department of Biology, Chemistry and Physics Professor of Biology-Tenured Co-Director of Undergraduate Research Director of Science, Technology, and Research Scholar Program	2006-Present
Gibbs Cancer Center & Research Institute, Spartanburg, SC Visiting Researcher	2014-Present
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, N., and Kennedy, M., Acquisition of laboratory equipment for biomedical science research and teaching, Grantor: Fullerton Foundation <i>in Review</i> Total \$200,000	2015
Pirisi-Creek, L., Erturk, H. Neval. South Carolina IDEa Networks of Biomedical Research Excellence (SC-INBRE). National Institutes of Health Total \$247,797	2014
Erturk, N., and Kennedy, M., STEM Scholarship, Grantor: Duke Energy Foundation	2014

Curriculum Vitae of Hatice Neval Erturk, Ph.D.

Total \$100,000

Erturk, N., and Kennedy, M., Acquisition of laboratory equipment for chemistry and biology laboratories, Grantor: Fullerton Foundation **2013**

Total \$60,000

Erturk, N., Brotherton, J., Steward, B., Creating Pipelines for Science Education in Spartanburg County, Grantor: Spartanburg County Foundation **2013**

Total \$5,000

Erturk, N. with Converse students three Belle Baruch Foundation grants on STEM Outreach **2011-2013**

Total \$15,000

Erturk, N., with Converse students nine South Carolina Independent Colleges and Universities Faculty Sponsored Undergraduate Research grants **2007-2014**

Total \$23,000

Erturk, H. N with Converse Students three Converse College Creative Collaborations Grants **2009-2011**

Total \$14,000

Parisi-Creek, L., Wheeler, J., Hestermann, E.V., Erturk, H. Neval. South Carolina IdEA Networks of Biomedical Research Excellence (SC-INBRE). National Institutes of Health 2P20 RR016461, 2010-2015 **2010-2015**

Total \$87,500

Erturk, N. with Converse Students one Beta Beta Beta Nu Xi Chapter Judy Binder Undergraduate Research Grant **2010**

Total \$1,000

Erturk, N. with Converse Students one Converse College Nisbet Honor Program **2010**

Total \$4,200

Erturk, H. N., Service Learning Course Development Grant, Grantor: Teagle Foundation and Converse College Grant Consortium **2009**

Total \$1,000

Erturk, H. N. with Converse Students Converse College Faculty Excellence Funds grant **2007**

Total \$1,200

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

Total \$125,000

Unlu, H., Erturk., N., Emecen, G., Grantor: The Scientific and Technical Research Council of Turkey **1991**

Total \$125,000**CLASSES TAUGHT**

Introductory Biology and associated lab courses for majors and non-majors

Genetics and associated labs (Graduate and undergraduate level)

Cell Biology and associated labs (Graduate and undergraduate level)

Molecular Biology of the Cell (Undergraduate)

Biology of Cancer (Graduate and Undergraduate level)

Research Methods (Graduate and Undergraduate level)

Science and Gender (Undergraduate)

RESEARCH INTEREST

Investigation of antigenotoxic and apoptotic properties of medicinal plants, effective science outreach strategies for K-12, disabled and under-served populations, development and assessment of case studies, inquiry-based lab exercises, and cooperative learning strategies

AWARDS AND DISTINCTIONS

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 <i>Drosophila</i> experimental system, Science Project Competition among Seniors, Hacettepe University, Biology Department, Ankara, Turkey	1997

PUBLICATIONS

IN PEER REVIEWED JOURNALS

- Alscher, R. G., Erturk, 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 PUBLICATIONS

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

- Strickland, S. and Erturk, 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, 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, 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, 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, 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, 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, Kimberly** and Erturk, H. Neval (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, Dalene; Burdette, Megan; Thomas, Belda;** Erturk, H. Neval and Keen, Richard (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. Neval and Erturk, Barbaros (2008) Relationship between the leaf age and antioxidant enzyme activity. Conference Proceedings of Fourth Annual USC Upstate Research Symposium. pp. 45-48.

Shorter, Kimberly and Erturk, H. Neval (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. 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.

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

Erturk, H. Neval, October 2010, Educational applications of Web 2.0 Technologies: An introduction to WordPress; 54nd ACUBE Annual Meeting, Sylvania, OH

Erturk, 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, 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, N (2010) The Role of Adenosine Receptor Subtypes in Time Perception. Georgia Undergraduate Research Conference, Kennesaw, GA.

* **Obregon, V., Arzeta-Ferrer, X., Childs, A.**, and Erturk, 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, 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, N. 2010, The Effects of Annotations on Test Performance, 6th Annual South Carolina Upstate Research Symposium, Spartanburg, SC

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

Erturk, H. Neval and Strickland, October 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. Neval and Erturk, Barbaros, June 2008, Relationship between the Leaf Age and Antioxidant Enzyme Activity, 19th National Biology Congress, Trabzon, Turkey

Shorter, Kimberly and Erturk, H. Neval Erturk, Apr. 2008, Effects Oral Presentation: An Investigation of the Genotoxic Effects of the Pesticide Sevin, Association of Southeastern Biologist, Spartanburg, SC

- Prouty, Dalene; Burdette, Megan; Thomas, Belda;** Erturk, H. Neval and Keen, Richard, Apr. 2008, Effects of Caffeine on Time Perception, Association of Southeastern Biologist, Spartanburg, SC
- * **Prouty, Dalene; Burdette, Megan; Thomas, Belda;** Keen, Richard and Erturk, H. Neval, Apr. 2008, Effects of Caffeine on Time Perception, Georgia Undergraduate Research Conference, Kennesaw, GA
- * **Shorter, Kimberly** and Erturk, H. Neval Erturk, Apr. 2008, An Investigation of the Genotoxic Effects of the Pesticide Sevin, Fourth Annual USC Upstate Research Symposium, Spartanburg, SC
- Shorter, Kimberly** and Erturk, H. Neval Erturk, Feb. 2008, An Investigation of the Genotoxic Effects of the Pesticide Sevin, SCICU Symposium, Greer, SC
- Prouty, Dalene; Burdette, Megan; Thomas, Belda;** Erturk, H. Neval and Keen, Richard, Feb. 2008, Effects of Caffeine on Temporal Perception, SCICU Symposium, Greer, SC
- H. Neval Erturk and **DeBruhl, Mary Carolyn**, Oct. 2007, Workshop: Stressed by Oxygen—A Laboratory Exercise for Introductory Cell Biology Classes, ACUBE Annual Meeting, Dubuque, IA
- Erturk, N. and Alscher, R., Mar. 1998, Responses of Superoxide Dismutases to Oxidative Stress in Arabidopsis, Southern Section of American Society of Plant Physiologist, Annual Meeting, Roanoke, Virginia
- Erturk, N. and Alscher, R., May 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., July-Aug. 1995, β -glucosidase aggregation in “null” genotypes of maize, American Society of Plant Physiologists, Annual Meeting, Charlotte, NC
- Erturk, N. and Esen, A., Mar. 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., Aug. 1991, The effects of Dichlorvos on recombination in *Drosophila melanogaster*, 10th National Biology Conference, Erzurum, Turkey

POSTER PRESENTATIONS

- ***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, H. N. Erturk.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, 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, 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, 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.E., & Keen, R.** (2009) An investigation of oral versus intraperitoneal administration on time perception. Poster presented at the annual meeting of the Georgia Undergraduate Research in Psychology, Kennesaw, GA.
- Erturk, H. Neval, October 2008 Using Textbook Annotations as an Assessment Tool; 52nd ACUBE Annual Meeting, Hopkinsville, KY
- Prouty, Dalene; Burdette, Megan; Thomas, Belda;** Erturk, H. Neval and Keen, Richard, Apr. 2008, Effects of High vs Low Dose Caffeine on Temporal Perception, Fourth Annual USC Upstate Research Symposium, Spartanburg, SC
- * **Shorter, Kimberly** and Erturk, H. Neval Erturk, Apr. 2008, An Investigation of the Genotoxic Effects of the Pesticide Sevin, a Ground Water Contaminant, South Carolina Environmental Conference, Myrtle Beach, SC
- DeBruhl, Mary Carolyn** and H. Neval Erturk, Jul. 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, N. and Alscher, R., Aug. 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, B.C., Canada
- Erturk, N. and Esen, A., Mar. 1995, β -glucosidase aggregating factor (BGAF) in “null” genotypes of maize, Virginia Tech Graduate Student Assembly, Annual Meeting, Blacksburg, VA

RELEVANT SEMINARS

- Erturk, H. Neval.2011 Investigation of the Antigenotoxic Properties of Herbal Supplements Reishi, *Cordyceps*, and CanImmu” Invited Speaker, Furman University, Greenville, SC
- Erturk, H. Neval, September 2010, Caffeine and Time, Science Forum Invited Speaker, Converse College, Spartanburg, SC
- Erturk, H. Neval, Dec. 2007, Use of Novel Bioinformatics Tools in Phylogenetic Tree Construction, Invited Speaker, Mersin, Turkey
- Erturk, H. Neval, October 2006, Saving Crocodiles—An Earthwatch Project, SC Junior Academy of Sciences, Converse College, Spartanburg, SC
- Erturk, H. Neval Erturk, March 2007, Science and Gender, Women’s History Month Presentations, Converse College, Spartanburg, SC
- Erturk, H. Neval, September 2006, Saving Mangroves, Saving Crocodiles, Science Forum, Converse College, Spartanburg, SC
- Kasey, Britney; Lewis, Clay; Erturk, H. Neval, April 2006, Effects of Pesticide Sevin on Recombination Rates in *Drosophila melanogaster*, Biannual Science Division Meeting on Special Studies, North Greenville University, Tigerville, SC
- Kittle, Kimberly and Erturk, H. Neval, Sept. 2005, Effects of Highlight Stress on Plant Protein Production, Biannual Science Division Meeting on Special Studies, North Greenville University, Tigerville, SC
- Erturk, H. Neval, Dec. 1998, Responses of superoxide dismutases of oxidative stress in *Arabidopsis thaliana*, Virginia Tech, PPWS and Biology Departments, Blacksburg, VA

- Erturk, H. Neval, Mar. 1998, Oxidative stress in Arabidopsis, Interdepartmental Plant Physiology Seminar, Virginia Tech, IPPS, Blacksburg, VA
- Erturk, H. Neval, Sept. 1996, Occurrence of FeSOD in Arabidopsis, Plant Molecular Biology Meeting, Virginia Tech, Plant Molecular Biology Group, Blacksburg, VA
- Erturk, H. Neval, β -glucosidase aggregating factor (BGAF) in maize, Mar. 1995, Botany Seminar, Virginia Tech, Biology Department, Blacksburg, VA
- Erturk, H. Neval, Feb. 1991, Mutagenicity test systems in mammals, Graduate Student Seminar, Hacettepe University, Biology Department, Ankara, Turkey
- Erturk, H. Neval, Feb. 1989, Mutagenic effects of inhalation anesthetics, Graduate Student Seminar, Hacettepe University, Biology Department, Ankara, Turkey

THESIS COMMITTEES

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| Veronica Obregon, Honor's in the Field Thesis Advisor | May 2012 |
| Title: An investigation of the antigenotoxic properties of herbal supplements reishi and cordyceps. | |
| Nora Nassri, Honor's 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

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| South Carolina Academy of Science Council Member | 2014 – Present |
| Member, 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 College, Spartanburg, SC | 2008 - Present |
| Chair, Student Awards Committee, Annual South Carolina Upstate Research Symposium, Spartanburg, SC | 2007 - 2014 |
| Member, Program and Organizing Committee, Annual South Carolina Upstate Research Symposium, Spartanburg, SC | 2007 - 2014 |
| Member, Curricular Programs Committee, Natural and Mathematical Sciences Representative, Converse College, Spartanburg, SC | 2012 - 2013 |
| Intel International Science and Engineering Fair Advisory Council | 2012-2014 |
| Upstate South Carolina Education Subcommittee Member | 2012-2013 |
| Business and Professional Women Spartanburg Chapter (BPW of SC) Member | 2014-Present |
| American Association for the Advancement of Science (AAAS) Member | 2008-Present |
| Co-Chair, Strategic Enrollment Plan-STEM Recruiting Strategies, Converse College | 2012-2013 |
| International Scientific Advisory Review Board, International Conference on Education and New Learning Technologies | 2009-2010 |
| Society for Science and the Public (SSP) Member | 2010 - Present |
| Member, Animal Welfare Committee, Wofford College, Spartanburg, SC | 2009 - Present |
| Member, Animal Welfare Committee, Converse College, Spartanburg, SC | 2007 - Present |

Member for the Science Advisory Board, Spartanburg Science Center, Spartanburg, SC	2008 - 2009
Member, Spartanburg Science Center Board, Spartanburg, SC	2007 - 2008
Member, Spartanburg Science Center, Lecture Series Committee, Spartanburg, SC	2007 - 2009
Member, Spartanburg Science Center, Education Committee, Spartanburg, SC	2006 - 2010
Member of National Steering Committee, Association of College and University Biology Educators	2007 - 2011
Member, Faculty Senate, Natural and Mathematical Sciences Representative, Converse College, Spartanburg, SC	2010 - 2013
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

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	