

Asst. Prof. ALTAN ERCAN

Personal Information

Office Phone: [+90 190 352 2248](tel:+901903522248) Extension: 802

Office Phone: [+90 190 352 2248](tel:+901903522248) Extension: 800

Fax Phone: [+90 352 338 8828](tel:+903523388828)

Email: altan.ercan@agu.edu.tr

Web: <https://avesis.agu.edu.tr/altan.ercan>

International Researcher IDs

ORCID: 0000-0002-7375-0756

Yoksis Researcher ID: 281524

Education Information

Doctorate, University of South Florida, College Of Science And Arts , Chemistry , United States Of America 1998 - 2003

Postgraduate, University of South Florida, College Of Science And Arts , Chemistry , United States Of America 1995 - 1997

Undergraduate, Middle East Technical University, Odtü, Kimya , Turkey 1989 - 1993

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Mechanistic investigation of dinuclear peptidase from Streptomyces griseus and Alteromonas sp. by using alternative catalysis: transition-state analogue substrates as probes., University Of South Florida, Kimya, Biyokimya, 2003
Postgraduate, Comparative proteolysis of the phosphagen kinases, University Of South Florida, Kimya, Biyokimya, 1997

Research Areas

Health Sciences, Medicine, Fundamental Medical Sciences, Biochemistry, Life Sciences, Biochemistry, Enzymology, Chemistry, Biochemistry, Protein Chemistry, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Harvard University, Harvard Medical School, Department Of Medicine, 2014 - 2015

Instructor, Harvard University, Harvard Medical School, Department Of Medicine, 2011 - 2014

Research Assistant, Harvard University, Harvard School of Public Health, Harvard Medical School, Department Of Medicine, 2007 - 2011

Research Assistant, University of Oklahoma, Oklahoma Health Sciences Center, Department Of Biochemistry And Molecular Biology , 2003 - 2006

Research Assistant, University of South Florida, Faculty Of Arts And Sciences, Chmistry, 1998 - 2003

Academic and Administrative Experience

Abdullah Gül Üniversitesi, Yaşam ve Doğa Bilimleri Fakültesi, Moleküler Biyoloji ve Genetik, 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **High-throughput characterization of the functional impact of IgG Fc glycan aberrancy in juvenile idiopathic arthritis**
Cheng H. D., Stockmann H., Adamczyk B., McManus C. A., Ercan A., Holm I. A., Rudd P. M., Ackerman M. E., Nigrovic P. A.
GLYCOBIOLOGY, vol.27, no.12, pp.1099-1108, 2017 (SCI-Expanded)
- II. **Expression Patterns of Bovine CD1 In Vivo and Assessment of the Specificities of the Anti-Bovine CD1 Antibodies**
Thi Kim Anh Nguyen T. K. A. N., Reinink P., El Messlaki C., Im J. S., Ercan A., Porcelli S. A., Van Rhijn I.
PLOS ONE, vol.10, no.3, 2015 (SCI-Expanded)
- III. **Congenital disorder of fucosylation type 2c (LADII) presenting with short stature and developmental delay with minimal adhesion defect**
Dauber A., Ercan A., Lee J., James P., Jacobs P. P., Ashline D. J., Wang S. R., Miller T., Hirschhorn J. N., Nigrovic P. A., et al.
HUMAN MOLECULAR GENETICS, vol.23, no.11, pp.2880-2887, 2014 (SCI-Expanded)
- IV. **Natural variation in Fc glycosylation of HIV-specific antibodies impacts antiviral activity**
Ackerman M. E., Crispin M., Yu X., Baruah K., Boesch A. W., Harvey D. J., Dugast A., Heizen E. L., Ercan A., Choi I., et al.
JOURNAL OF CLINICAL INVESTIGATION, vol.123, no.5, pp.2183-2192, 2013 (SCI-Expanded)
- V. **Characterization of Fibrinogen Glycosylation and Its Importance for Serum/Plasma N-Glycome Analysis**
Adamczyk B., Struwe W. B., Ercan A., Nigrovic P. A., Rudd P. M.
JOURNAL OF PROTEOME RESEARCH, vol.12, no.1, pp.444-454, 2013 (SCI-Expanded)
- VI. **Multiple Juvenile Idiopathic Arthritis Subtypes Demonstrate Proinflammatory IgG Glycosylation**
Ercan A., Barnes M. G., Hazen M., Tory H., Henderson L., Dedeoglu F., Fuhlbrigge R. C., Grom A., Holm I. A., Kellogg M., et al.
ARTHRITIS AND RHEUMATISM, vol.64, no.9, pp.3025-3033, 2012 (SCI-Expanded)
- VII. **Hypogalactosylation of serum N-glycans fails to predict clinical response to methotrexate and TNF inhibition in rheumatoid arthritis**
Ercan A., Cui J., Hazen M. M., Bathiwala F., Royle L., Rudd P. M., Coblyn J. S., Shadick N., Weinblatt M. E., Gregersen P., et al.
ARTHRITIS RESEARCH & THERAPY, vol.14, no.2, 2012 (SCI-Expanded)
- VIII. **Aberrant IgG Galactosylation Precedes Disease Onset, Correlates With Disease Activity, and Is Prevalent in Autoantibodies in Rheumatoid Arthritis**
Ercan A., Cui J., Chatterton D. E. W., Deane K. D., Hazen M. M., Brintnell W., O'Donnell C. I., Derber L. A., Weinblatt M. E., Shadick N. A., et al.
ARTHRITIS AND RHEUMATISM, vol.62, no.8, pp.2239-2248, 2010 (SCI-Expanded)
- IX. **Mechanistic role of each metal ion in Streptomyces dinuclear aminopeptidase: Peptide hydrolysis and 7 x 10(10)-fold rate enhancement of phosphodiester hydrolysis**
Ercan A., Tay W. M., Grossman S. H., Ming L.
JOURNAL OF INORGANIC BIOCHEMISTRY, vol.104, no.1, pp.19-29, 2010 (SCI-Expanded)
- X. **A "moonlighting" dizinc aminopeptidase from Streptomyces griseus: Mechanisms for peptide hydrolysis and the 4x10(10)-fold acceleration of the alternative phosphodiester hydrolysis**
Ercan A., Park H. I., Ming L.
BIOCHEMISTRY, vol.45, no.46, pp.13779-13793, 2006 (SCI-Expanded)
- XI. **Molecular characterization of a novel UDP-galactose : fucoside alpha 3-galactosyltransferase that**

- modifies Skp1 in the cytoplasm of Dictyostelium**
Ercan A., Panico M., Sutton-Smith M., Dell A., Morris H., Matta K., Gay D., West C.
JOURNAL OF BIOLOGICAL CHEMISTRY, vol.281, no.18, pp.12713-12721, 2006 (SCI-Expanded)
- XII. Kinetic analysis of a Golgi UDP-GlcNAc : polypeptide-Thr/Ser N-acetyl-alpha-glucosaminyltransferase from Dictyostelium**
Ercan A., West C.
GLYCOBIOLOGY, vol.15, no.5, pp.489-500, 2005 (SCI-Expanded)
- XIII. The Skp1 prolyl hydroxylase from Dictyostelium is related to the hypoxia-inducible factor-alpha class of animal prolyl 4-hydroxylases**
VAN DER WEL H., Ercan A., WEST C. M.
JOURNAL OF BIOLOGICAL CHEMISTRY, vol.280, no.15, pp.14645-14655, 2005 (SCI-Expanded)
- XIV. Specificity of a soluble UDP-galactose : fucoside alpha 1,3-galactosyltransferase that modifies the cytoplasmic glycoprotein Skp1 in Dictyostelium**
KETCHAM C., WANG F., FISHER S. Z., Ercan A., VAN DER WEL H., LOCKE R. D., Sirajud-Doulah K., MATTA K. L., WEST C. M.
JOURNAL OF BIOLOGICAL CHEMISTRY, vol.279, no.28, pp.29050-29059, 2004 (SCI-Expanded)
- XV. Iron(III)-Chelex resin complex as a prototypical heterogeneous catalyst for phosphodiester hydrolysis**
Lykourinou-Tibbs V., Ercan A., MING L. J.
CATALYSIS COMMUNICATIONS, vol.4, no.10, pp.549-553, 2003 (SCI-Expanded)
- XVI. Proteolytic susceptibility of creatine kinase isozymes and arginine kinase**
ERCAN A., Grossman S.
BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.306, no.4, pp.1014-1018, 2003 (SCI-Expanded)
- XVII. Remarkable enhancement of the hydrolyses of phosphoesters by dinuclear centers: Streptomyces aminopeptidase as a 'natural model system'**
Ercan A., PARK H. I., MING L. J.
CHEMICAL COMMUNICATIONS, no.24, pp.2501-2502, 2000 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. IgG Fc Glycosylation Favoring Less Inflammatory Variants Is Regulated by Estradiol in Men**
ERCAN A., Yu E., Finkelstein J., Nigrovic P. A.
Eleventh Annual Interdisciplinary Women's Health Research Symposium, 6 - 07 November 2014, vol.23, pp.849-877
- II. Multiple Juvenile Idiopathic Arthritis Subtypes Demonstrate Pro-inflammatory IgG Glycosylation**
ERCAN A., Barnes M. G., Hazen M. M., Tory H., Henderson L., Dedeoglu F., Fuhlbrigge R. C., Grom A., Holm I. A., Kellogg M., et al.
Ninth Annual Interdisciplinary Women's Health Research Symposium, 15 - 16 November 2012, vol.21, pp.985-1013
- III. Juvenile idiopathic arthritis is associated with potentially pathogenic glycosylation of IgG**
ERCAN A., Hazen M. M., Son M. B., Kim S., Dedeoglu F., Sundel R. P., Fuhlbrigge R. C., Cui J., Shadick N. A., Weinblatt M. E., et al.
2011 Pediatric Rheumatology Symposium, 2 - 05 June 2011, vol.10, pp.5
- IV. Molecular Characterization of a Novel Cytoplasmic UDP-Gal : Fucoside 3-Galactosyltransferase that Modifies Skp1 in Dictyostelium**
ERCAN A., Smith M. S., Dell A., Morris H. R., Matta K. L., Gay D., West C. M.
THE 2005 MEETING OF THE SOCIETY FOR GLYCOBIOLOGY, 9 - 12 November 2005, vol.15, pp.1165-1255

Supported Projects

ERCAN A., Other International Funding Programs, Endocrine regulation of IgG glycosylation in arthritis, 2012 - 2014
ERCAN A., Other International Funding Programs, To evaluate the variation in IgG glycosylation in early ages and possible hormonal effect on IgG glycosylation among JIA patients., 2011 - 2013
ERCAN A., Other International Funding Programs, Immunological mechanisms and rheumatic disease, 2008 - 2010
ERCAN A., Other International Funding Programs, Cytosolic glycosylation, 2003 - 2006

Scientific Refereeing

Journal of Rheumatology, SCI Journal, December 2014
Journal of Rheumatology, SCI Journal, December 2014
September 2014
December 2013
Annals of the Rheumatic Diseases, SCI Journal, March 2013
Scientific Reports, SCI Journal, January 2013
September 2012
Arthritis care and research, Other Indexed Journal, August 2012
Journal of Rheumatology, SCI Journal, August 2011

Metrics

Publication: 21
Citation (WoS): 482
Citation (Scopus): 446
H-Index (WoS): 10
H-Index (Scopus): 11