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Education Information

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

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

Undergraduate, Orta Doğu Teknik Üniversitesi, 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, Abdullah Gül Üniversitesi, Yaam Ve Dogan Bilimleri Fakultesi, Molekuler Biyoloji Ve Genetik, 2018 - Continues

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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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. , Batliwalla 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- IX. **Mechanistic role of each metal ion in Streptomyces dinuclear aminopeptidase: Peptide hydrolysis and 7 x 10¹⁰-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 (Journal Indexed in SCI)
- X. **A "moonlighting" dizinc aminopeptidase from Streptomyces griseus: Mechanisms for peptide hydrolysis and the 4x10¹⁰-fold acceleration of the alternative phosphodiester hydrolysis**
Ercan A., Park H. I. , Ming L.
BIOCHEMISTRY, vol.45, no.46, pp.13779-13793, 2006 (Journal Indexed in SCI)

- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)

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 Supported Projects, Endocrine regulation of IgG glycosylation in arthritis, 2012 - 2014
ERCAN A., Other Supported Projects, 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 Supported Projects, Immunological mechanisms and rheumatic disease, 2008 - 2010
ERCAN A., Other Supported Projects, 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

Citations

Total Citations (WOS):467
h-index (WOS):10