

## Prof. AYKUT ÖZDARENDELİ

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### Education Information

Post Doctorate, Pittsburg State University, Medical Faculty, Vaccine Research Center, United States Of America 2009 - 2010

Post Doctorate, Tennessee State University, Life Sciences, Virology, United States Of America 1998 - 2001

Doctorate, Fırat University, Fırat Üniversitesi Sağlık Bilimleri, Viroloji, Turkey 1993 - 1997

### Research Areas

Medicine, Microbiology and Clinical Microbiology, Immunology, Life Sciences, Microbiology, Virology, Health Sciences, Fundamental Medical Sciences, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Fırat University, Fırat Üniversitesi Veteriner Fakültesi, Klinik Öncesi, 2005 - 2011

Assistant Professor, Fırat University, Fırat Üniversitesi Tıp Fakültesi, Temel Bilimler, 1998 - 2001

### Academic and Administrative Experience

#### Advising Theses

ÖZDARENDELİ A., "Hepatitis B Virüsünün Kesim Enzimleri Kullanılarak Tiplendirilmesi", Fırat Üniversitesi, 2005., Postgraduate, A.Aksoy(Student), 2005

ÖZDARENDELİ A., Sığır Vebası Virüsü Nükleoprotein Geninin Klonlanması ve Ökaryotik Hücrelerde Açıklanması, Doctorate, Ş.Tonbak(Student), 2002

ÖZDARENDELİ A., "Hepatitis B Virüsünün HBsAg Geninin Polimeraz Zincir Reaksiyonu Yöntemi İle Gösterilmesi", Fırat Üniversitesi, 2002., Postgraduate, N.Keleştemur(Student), 2002

### Published journal articles indexed by SCI, SSCI, and AHCI

1. **Crimean–Congo Hemorrhagic Fever Virus: Progress in Vaccine Development**

ÖZDARENDELİ A.

Diagnostics, vol.13, no.16, 2023 (SCI-Expanded)

- II. **Long-Term Results of Immunogenicity of Booster Vaccination against SARS-CoV-2 (Hybrid COV-RAPEL TR Study) in Türkiye: A Double-Blind, Randomized, Controlled, Multicenter Phase 2 Clinical Study**  
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Vaccines, vol.11, no.7, 2023 (SCI-Expanded)
- III. **A pilot study for treatment of severe COVID-19 pneumonia by aerosolized formulation of convalescent human immune plasma exosomes (ChipEXO (TM))**  
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- IV. **Efficacy, Immunogenicity, and Safety of the Two-Dose Schedules of TURKOVAC versus CoronaVac in Healthy Subjects: A Randomized, Observer-Blinded, Non-Inferiority Phase III Trial**  
DURUSU TANRIÖVER M., Aydın O. A., Guner R., YILDIZ O., Celik I., Doganay H. L., Kose S., AKHAN S., AKALIN E. H., SEZER Z., et al.  
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- V. **Development of a protective inactivated vaccine against Crimean-Congo hemorrhagic fever infection**  
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HELIYON, vol.7, no.10, 2022 (SCI-Expanded)
- VI. **The Seroprevalence of Crimean-Congo Hemorrhagic Fever in Wild and Domestic Animals: An Epidemiological Update for Domestic Animals and First Seroevidence in Wild Animals from Türkiye**  
Nurettin C., Engin B., Sukru T., Munir A., Zati V., Aykut O.  
VETERINARY SCIENCES, vol.9, no.9, 2022 (SCI-Expanded)
- VII. **Preclinical Studies on Convalescent Human Immune Plasma-Derived Exosome: Omics and Antiviral Properties to SARS-CoV-2**  
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- VIII. **Preclinical Studies on Convalescent Human Immune Plasma-Derived Exosome: Omics and Antiviral Properties to SARS-CoV-2.**  
Taşlı N. P., Gönen Z. B., Kırbaç O. K., Gökdemir N. S., Bozkurt B. T., Bayrakçı B., Sağraç D., Taşkan E., Demir S., Ekimci Gürcan N., et al.  
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- IX. **Safety and immunogenicity of inactive vaccines as booster doses for COVID-19 in Turkey: A randomized trial**  
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- X. **Immune responses in multiple hosts to Nucleocapsid Protein (NP) of Crimean-Congo Hemorrhagic Fever Virus (CCHFV)**  
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PLoS Neglected Tropical Diseases, vol.15, no.12, 2021 (SCI-Expanded)
- XI. **Development of an Inactivated Vaccine against SARS CoV-2**  
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- XII. **Production and Characterization of Nucleocapsid and RBD Cocktail Antigens of SARS-CoV-2 in Nicotiana benthamiana Plant as a Vaccine Candidate against COVID-19**  
Mamedov T., Yuksel D., Ilgın M., Gürbüzaslan I., Gulec B., Mammadova G., Ozdarendeli A., Yetişkin H., Kaplan B., Islam Pavel S. T. I., et al.

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- XIII. **Plant-Produced Glycosylated and In Vivo Deglycosylated Receptor Binding Domain Proteins of SARS-CoV-2 Induce Potent Neutralizing Responses in Mice**  
Mamedov T., Yuksel D., Ilgin M., Gurbuzaslan I., Gulec B., Yetiskin H., Uygut M. A., Islam Pavel S. T. I., Ozdarendeli A., Mammadova G., et al.  
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- XIV. **Development of a novel recombinant ELISA for the detection of Crimean-Congo hemorrhagic fever virus IgG antibodies**  
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SCIENTIFIC REPORTS, vol.11, no.1, 2021 (SCI-Expanded)
- XV. **Evaluation of the cell culture based and the mouse brain derived inactivated vaccines against Crimean-Congo hemorrhagic fever virus in transiently immune-suppressed (IS) mouse model**  
Pavel S. T. I., Yetiskin H., Kalkan A., Ozdarendeli A.  
PLOS NEGLECTED TROPICAL DISEASES, vol.14, no.11, 2020 (SCI-Expanded)
- XVI. **Isolation and characterization of severe acute respiratory syndrome coronavirus 2 in Turkey**  
PAVEL S. T. I., YETİŞKİN H., AYDIN G., Holyavkin C., UYGUT M. A., Dursun Z. B., Celik İ., Cevik C., ÖZDARENDELİ A.  
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- XVII. **Geographical and temporal distribution of SARS-CoV-2 clades in the WHO European Region, January to June 2020**  
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- XVIII. **Immunization of Knock-Out alpha/beta Interferon Receptor Mice against High Lethal Dose of Crimean-Congo Hemorrhagic Fever Virus with a Cell Culture Based Vaccine**  
ÇANAKOĞLU N., Berber E., Tonbak S., ERTEK M., SÖZDUTMAZ I., Aktas M., KALKAN A., ÖZDARENDELİ A.  
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- XIX. **Vectors and Vector-Borne Diseases in Turkey**  
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- XX. **Application of the pseudo-plaque assay for detection and titration of Crimean-Congo hemorrhagic fever virus**  
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- XXI. **Pseudo-plaque reduction neutralization test (PPRNT) for the measurement of neutralizing antibodies to Crimean-Congo hemorrhagic fever virus**  
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- XXII. **The complete genome analysis of Crimean-Congo hemorrhagic fever virus isolated in Turkey**  
Ozdarendeli A., Canakoglu N., Berber E., Aydin K., Tonbak S., ERTEK M., BUZGAN T., Bolat Y., Aktas M., Kalkan A.  
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- XXIII. **Genetic analysis of the M RNA segment of Crimean-Congo hemorrhagic fever virus strains in Turkey**  
ÖZDARENDELİ A., Aydin K., Tonbak S., Aktas M., Altay K., Koksal I., Bolat Y., Dumanli N., Kalkan A.  
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- XXIV. **Crimean-Congo hemorrhagic fever virus: Genetic analysis and tick survey in Turkey**  
Tonbak S., Aktas M., Altay K., Azkur A. K., Kalkan A., Bolat Y., Dumanli N., Ozdarendeli A.  
JOURNAL OF CLINICAL MICROBIOLOGY, vol.44, no.11, pp.4120-4124, 2006 (SCI-Expanded)
- XXV. **[Genotyping of hepatitis B virus by restriction enzyme analysis].**  
Aksoy A., Ozdarendeli A.  
Mikrobiyoloji bulteni, vol.40, no.3, pp.215-23, 2006 (SCI-Expanded)

- XXVI. **Detection of Molluscum contagiosum virus (MCV) subtype I as a single dominant virus subtype in molluscum lesions from a Turkish population**  
Saral Y., Kalkan A., ÖZDARENDELİ A., Bulut Y., DOYMAZ M. Z.  
ARCHIVES OF MEDICAL RESEARCH, vol.37, no.3, pp.388-391, 2006 (SCI-Expanded)
- XXVII. **Bovine coronavirus 5'-proximal genomic acceptor hotspot for discontinuous transcription is 65 nucleotides wide**  
Wu H., Ozdarendeli A., Brian D.  
JOURNAL OF VIROLOGY, vol.80, no.5, pp.2183-2193, 2006 (SCI-Expanded)
- XXVIII. **Combined branched-DNA and conventional HBV PCR assays for detection of serum HBV-DNA in hepatitis B e antigen-positive chronic hepatitis B patients**  
ÖZDARENDELİ A., Toroman Z., Bulut Y., Demirbag K., Kalkan A., Ozden M., Kilic S.  
HEPATO-GASTROENTEROLOGY, vol.53, no.67, pp.106-109, 2006 (SCI-Expanded)
- XXIX. **Prevalence and genotypic distribution of hepatitis GB-C/HG and TT viruses in blood donors, mentally retarded children and four groups of patients in Eastern Anatolia, Turkey**  
Kalkan A., ÖZDARENDELİ A., Bulut Y., Saral Y., Ozden M., Kelestimur N., Toraman Z.  
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- XXX. **Detection of Helicobacter pylori in children with otitis media with effusion: A preliminary report**  
Karlidag T., Bulut Y., Keles E., Kaygusuz I., Yalcin S., ÖZDARENDELİ A., Dabak H.  
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- XXXI. **Identification of Chlamydia trachomatis with polymerase chain reaction in middle ear fluid in otitis media with effusion**  
Keles E., Bulut Y., Kaygusuz I., Karlidag T., Yalcin S., ÖZDARENDELİ A., Alpay H.  
INDIAN PEDIATRICS, vol.42, no.7, pp.686-691, 2005 (SCI-Expanded)
- XXXII. **[Molecular identification of Candida albicans and Candida dubliniensis strains isolated from clinical samples].**  
Toraman Z. A., Bulut Y., Yilmaz M., Ozdarendeli A.  
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- XXXIII. **The effect of L-Tryptophan on hemorrhagic shock induced bacterial translocation**  
Bulbuller N., Pektas B., ÖZDARENDELİ A., Dogru O., Aygen E., Akpolat N.  
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- XXXIV. **Prevalence and genotypes of hepatitis G virus among hemodialysis patients in Eastern Anatolia, Turkey**  
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- XXXV. **Investigation of Epstein-Barr virus DNA in formalin-fixed and paraffin-embedded breast cancer tissues**  
Kalkan A., ÖZDARENDELİ A., Bulut Y., Yekeler H., Cobanoglu B., DOYMAZ M. Z.  
MEDICAL PRINCIPLES AND PRACTICE, vol.14, no.4, pp.268-271, 2005 (SCI-Expanded)
- XXXVI. **SV40 in human thyroid nodules**  
ÖZDARENDELİ A., Camci C., Aygen E., Kirkil C., Toroman Z., Dogru O., DOYMAZ M. Z.  
JOURNAL OF CLINICAL VIROLOGY, vol.30, no.4, pp.337-340, 2004 (SCI-Expanded)
- XXXVII. **The frequency of Toxocara infection in mental retarded children**  
KAPLAN M., KALKAN A., Hosoglu S., KUK S., Özden M., Demirdag K., Ozdarendeli A.  
MEMORIAS DO INSTITUTO OSWALDO CRUZ, vol.99, no.2, pp.121-125, 2004 (SCI-Expanded)
- XXXVIII. **A Case of Mumps Conjunctivitis Detection of the Virus RNA by Nested PCR in Tear Sample**  
KALKAN A., ÖZDEN M., YILMAZ T., DEMİRDAĞ K., BULUT Y., ÖZDARENDELİ A.  
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- XXXIX. **Cutaneous anthrax in adults: A review of 25 cases in the eastern Anatolian region of Turkey**  
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- XL. **Levels of plasma malondialdehyde and erythrocyte antioxidant enzyme activities in patients with**

### **chronic hepatitis B.**

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- XLII. **Ciprofloxacin and co-trimoxazole resistance and extended spectrum beta-lactamase production in Escherichia coli strains isolated from urinary tract infections**  
Ozden M., Kalkan A., Demirdag K., Kilic S., ÖZDARENDELİ A.  
INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS, vol.21, no.5, pp.492-493, 2003 (SCI-Expanded)
- XLIII. **Seropositivity of Epstein-Barr virus in Eastern Anatolian Region of Turkey.**  
Ozkan A., Kilic S. S., Kalkan A., Ozden M., Demirdag K., Ozdarendeli A.  
Asian Pacific journal of allergy and immunology, vol.21, no.1, pp.49-53, 2003 (SCI-Expanded)
- XLIII. **[Fasciola hepatica seroprevalence in the Elazığ region].**  
Kaplan M., Kuk S., Kalkan A., Demirdağ K., Ozdarendeli A.  
Mikrobiyoloji bulteni, vol.36, no.3-4, pp.337-42, 2002 (SCI-Expanded)
- XLIV. **Downstream sequences influence the choice between a naturally occurring noncanonical and closely positioned upstream canonical heptameric fusion motif during bovine coronavirus subgenomic mRNA synthesis**  
ÖZDARENDELİ A., Ku S., Rochat S., Williams G., Senanayake S., Brian D.  
JOURNAL OF VIROLOGY, vol.75, no.16, pp.7362-7374, 2001 (SCI-Expanded)

### **Articles Published in Other Journals**

- I. **Overview of Zoonotic Diseases in Turkey: The One Health Concept and Future Threats**  
Inci A., Doganay M., Ozdarendeli A., Düzlü Ö., Yildirim A.  
TÜRKİYE PARAZİTOLOJİ DERGİSİ, vol.42, pp.39-80, 2018 (Peer-Reviewed Journal)
- II. **Overview of Zoonotic Diseases in Turkey: The One Health Concept and Future Threats.**  
İnci A., Doğanay M., Özdarendeli A., Düzlü Ö., Yıldırım A.  
Turkiye parazitolojii dergisi, vol.42, pp.39-80, 2018 (Peer-Reviewed Journal)
- III. **[Expression of the cathepsin L1 gene of Fasciola hepatica eucaryotic cells].**  
Kuk S., Kaplan M., Kalkan A., Ozdarendeli A.  
Turkiye parazitolojii dergisi, vol.30, no.1, pp.25-8, 2006 (Scopus)
- IV. **Detection of Epstein-Barr virus DNA by polymerase chain reaction in surgical specimens of patients with squamous cell carcinoma of the larynx and vocal cord nodules.**  
Gök U., Ozdarendeli A., Keleş E., Bulut Y., Cobanoğlu B.  
Kulak burun bogaz ihtisas dergisi : KBB = Journal of ear, nose, and throat, vol.11, no.5, pp.134-8, 2003 (Scopus)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Comparing Immunogenicity and Protective Efficacy of Cell Culture Based and Mice Brain Derived Inactivated Vaccine of Crimean Congo Haemorrhagic Fever Virus in Transiently Immune Suppressed Balb/c Mouse Model**  
YETİŞKİN H., pavel S. T. I., ÖZDARENDELİ A.  
ScanVir2019, 3 - 05 June 2019
- II. **S1P1 Agonisti SEW2871 insan Th17 Hücreleri gelişim ve fonksiyonlarını doğrudan ve dolaylı etkilemektedir**  
EKEN A., Okus F. Z., YETKİN M. F., çakır m., ÖZDARENDELİ A., ALTUNTAŞ H., MİRZA M., CANATAN H.  
XXIV. Ulusal İmmünoloji Kongresi, Turkey, 27 - 30 April 2017
- III. **Detailed Immunological Analysis of Recombinant Crimean Congo Hemorrhagic Fever Virus Nucleoprotein**  
KARAASLAN E., ÇETİN N. S., Hasanoğlu S., KILIÇ A. O., KALKAN A., ÖZDARENDELİ A., DOYMAZ M. Z.

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- IV. **Fingolimod ve SEW2871 insan Th17 hücresi gelişimini etkilemektedir**  
YETKİN M. F., EKEN A., Okuş F., ÇAKIR M., ÖZDARENDELİ A., ALTUNTAŞ H., MİRZA M., CANATAN H.  
10.Klinik Nöroimmunoloji Sempozyumu, Girne, Cyprus (Kktc), 1 - 05 April 2018, pp.34
- V. **Discovery of Crimean-Congo Hemorrhagic Fever Virus vaccine candidate antigens by protein microarray scanning and verification of the determined antigens by recombinant ELISA**  
GÜLÇE İZ S., DÖŞKAYA M., nakajima r., pablo j., Can H., Atalay Şahar E., KARAKAVUK M., Gül A., Örs G., Değirmenci Döşkaya A., et al.  
2017 ISV Annual Congress, 5 - 07 October 2017
- VI. **Protein Mikroarray Tarama ile Kırım-Kongo Kanamalı Ateşi Virüsüne ait aşı adayları antijenlerin keşfi ve rekombinant ELISA ile doğrulanması**  
GÜLÇE İZ S., DÖŞKAYA M., nakajima r., pablo j., jain a., Can H., Atalay Şahar E., KARAKAVUK M., Gül A., örs g., et al.  
20. Ulusal Parazitoloji Kongresi(Uluslararası Katılımlı), 25 - 29 September 2017
- VII. **Evaluation of CCHFV nucleoprotein as diagnostic tool in ELISA**  
ÇETİN N. S., KARAASLAN E., YAZICI M., Hasanoğlu S., KALKAN A., KILIÇ A. O., ÖZDARENDELİ A., DOYMAZ M. Z.  
2nd International Conference on Crimean-Congo Hemorrhagic Fever, 10 - 12 September 2017
- VIII. **S1P1 Agonist SEW2871 Inhibits human Th17 cell generation and functions**  
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IMMUNOLOGY2017, Washington Dc, United States Of America, 12 - 16 May 2017, vol.198
- IX. **Direct and indirect effects of S1P1 Agonist SEW2871 on human Th17 cell generation and functions**  
EKEN A., Okuş F., YETKİN M. F., ÇAKIR M., ÖZDARENDELİ A., ALTUNTAŞ H., MİRZA M., CANATAN H.  
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- X. **S1P1 Agonist SEW2871 Inhibits human Th17 cell generation and functions**  
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- XI. **S1P1 Agonisti SEW2871'in insan Th17 hücresi gelişim ve fonksiyonlarını doğrudan ve dolaylı etkilemektedir**  
EKEN A., Okuş F., YETKİN M. F., ÇAKIR M., ÖZDARENDELİ A., ALTUNTAŞ H., MİRZA M., CANATAN H.  
XXIV. Ulusal İmmunoloji Kongresi, İstanbul, Turkey, 27 - 30 April 2017
- XII. **Kırım Kongo Aşı Projesi**  
ÖZDARENDELİ A.  
37. Türk Mikrobiyoloji Kongresi, Turkey, 16 - 20 November 2016
- XIII. **Investigation of IFN Response to the Inactivated Vaccine Developed against Crimean Congo Hemorrhagic Fever Virus**  
BERBER E., SÖZDUTMAZ İ., ÇANAKOĞLU N., ÇALIŞKAN M., ÖZDARENDELİ A.  
9th Vaccine & ISV Annual Global Congress, 18 - 20 October 2015
- XIV. **Investigation of IFN gama Response to the Inactivated Vaccine Developed against Crimean Congo Hemorrhagic Fever Virus**  
BERBER E., SÖZDUTMAZ İ., ÇANAKOĞLU N., çalışkan m., ÖZDARENDELİ A.  
9th Vaccine and ISV Congress, 18 - 20 October 2015
- XV. **Determination of the Vaccine Induced Immunodominant Regions of Nucleoprotein Crimean Congo Hemorrhagic Fever Virus**  
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ICVID 2015: International Conference on Virology and Infectious Diseases, Londrina, United Kingdom, 25 - 26 September 2015, vol.2, pp.975
- XVI. **KIRIM KONGO KANAMALI HASTALIGINA KARSİ HUCRE KULTUR TABANLI ASI GELİSTİRME ÇALIŞMALARI**  
ÖZDARENDELİ A.  
ASI BİLİMİ KONGRESİ, İzmir, Turkey, 28 - 30 April 2015
- XVII. **Immunization of knock out alpha beta interferon receptor mice against high lethal dose of Crimean**

## **Congo hemorrhagic fever virus with a cell culture based vaccine**

ÖZDARENDELİ A.

CSCM-World Congress on CBRNe Science and Consequence Management, Zagreb, Croatia, 12 - 17 April 2015

### **XVIII. AŞI ÇALIŞMALARI**

ÖZDARENDELİ A.

2. ULUSAL KLİNİK ARAŞTIRMALAR KONGRESİ, Turkey, 27 - 28 March 2015

### **XIX. A Purified Inactivated Crimean-Congo Hemorrhagic Fever Virus Vaccine Derived from Vero Cells**

ÖZDARENDELİ A., BERBER E., Çanakoğlu N., ERTEK M., Tonbak Ş., Sözdutalmaz İ., AKTAS M., KALKAN A.

7th Vaccine&ISV Congress, Barcelona, Spain, 27 - 29 October 2013, pp.92

### **XX. Crimean-Congo Hemorrhagic Fever Infection prevalence in Field Collected Ticks in Endemic Areas of Turkey**

AKTAS M., Vatansever Z., Çanakoğlu N., BERBER E., Özübek S., KALKAN A., ÖZDARENDELİ A.

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### **XXI. Kırım Kongo Kanamalı Ateşi Virusuna Karşı Nötralizan Antikor Titresinin Belirlenmesi Amacıyla Pseudo-Plaque Redüksiyon Nötralizasyon Testi Geliştirilmesi**

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