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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Ruprecht-Karls-Universitaet Heidelberg, Almanya 2001 - 2005

Yüksek Lisans, Universitaet Ulm, Almanya 1998 - 2001

Lisans, Ain Shams University, Mısır 1991 - 1995

Yabancı Diller

Almanca, C1 İleri

İngilizce, C2 Ustalık

Arapça, C2 Ustalık

Yaptığı Tezler

Doktora, Functional Characterization of two novel essential malarial genes by reverse genetics, Ruprecht-Karls-Universitaet Heidelberg, 2005

Yüksek Lisans, Parasitization behavior and competition between two egg parasitoid species of Trichogramma (Hymenoptera: Trichogrammatidae), Universitaet Ulm, 2001

Araştırma Alanları

Yaşam Bilimleri, Biyoteknoloji, Mikrobiyoloji, Moleküler Biyoloji ve Genetik

Akademik Unvanlar / Görevler

Dr.Öğr.Üyesi, Bezmiâlem Vakıf Üniversitesi, Yaşam Bilimleri Ve Biyoteknoloji Enstitüsü, Mikrobiyoloji Anabilim Dalı, 2018
- Devam Ediyor

Yönetilen Tezler

Aly A. S. I. , Functional Characterization of the Serine Repeat Antigen 4 (SERA4) and Serine Repeat Antigen 5 (SERA5) Double Gene Knockout in Plasmodium yoelii, Yüksek Lisans, Y.Alruwaili(Öğrenci), 2017

Aly A. S. I. , Heat Shock Proteins in Plasmodium, stress response associated with drug resistance and drug target potential, Doktora, C.Murillo(Öğrenci), 2017

Aly A. S. I. , Molecular Approaches to the Evaluation and Improvement of Malaria Control, Doktora, T.Thompson(Öğrenci), 2017

Aly A. S. I. , Characterization of Plasmodium sp. Serpentine Receptor 10 as a Potential Vaccine Candidate, Yüksek Lisans,

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Synthetic DNA Vaccines Adjuvanted with pIL-33 Drive Liver-Localized T Cells and Provide Protection from *Plasmodium* Challenge in a Mouse Model.**
Reeder S., Reuschel E., Bah M., Yun K., Tursi N., Kim K., Chu J., Zaidi F., Yilmaz I., Hart R., et al.
Vaccines, cilt.8, 2020 (SCI İndekslerine Giren Dergi)
- II. **Highly Sensitive and Rapid Characterization of the Development of Synchronized Blood Stage Malaria Parasites Via Magneto-Optical Hemozoin Quantification**
Pukancsik M., Molnar P., Orban A., Butykai A., Marton L., Kezsmarki I., Vertessy B. G. , KAMIL M., Abraham A., ALY A. S. I.
BIOMOLECULES, cilt.9, sa.10, 2019 (SCI İndekslerine Giren Dergi)
- III. **Phenotypic Analysis of Rodent Malaria Parasite Asexual and Sexual Blood Stages and Mosquito Stages**
Aly A. S. I. , Deveci G., Yilmaz I., Abraham A., Golshan A., Hart R. J.
JOVE-JOURNAL OF VISUALIZED EXPERIMENTS, sa.147, 2019 (SCI İndekslerine Giren Dergi)
- IV. **The antimalarial activity of the pantothenamide alpha-PanAm is via inhibition of pantothenate phosphorylation**
Chiu J. E. , Thekkiniath J., Choi J., Perrin B. A. , Lawres L., Plummer M., Virji A. Z. , Abraham A., Toh J. Y. , Van Zandt M., et al.
SCIENTIFIC REPORTS, cilt.7, 2017 (SCI İndekslerine Giren Dergi)
- V. **Multifunctional Involvement of a C2H2 Zinc Finger Protein (PbZfp) in Malaria Transmission, Histone Modification, and Susceptibility to DNA Damage Response**
Gopalakrishnan A. M. , Aly A. S. I. , Aravind L., Kumar N.
MBIO, cilt.8, sa.4, 2017 (SCI İndekslerine Giren Dergi)
- VI. **Genetic Characterization of Coenzyme A Biosynthesis Reveals Essential Distinctive Functions during Malaria Parasite Development in Blood and Mosquito**
Hart R. J. , Abraham A., Aly A. S. I.
FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY, cilt.7, 2017 (SCI İndekslerine Giren Dergi)
- VII. **Genetic Characterization of Plasmodium Putative Pantothenate Kinase Genes Reveals Their Essential Role in Malaria Parasite Transmission to the Mosquito**
Hart R. J. , Cornillot E., Abraham A., Molina E., Nation C. S. , Ben Mamoun C., Aly A. S. I.
SCIENTIFIC REPORTS, cilt.6, 2016 (SCI İndekslerine Giren Dergi)
- VIII. **Plasmodium AdoMetDC/ODC bifunctional enzyme is essential for male sexual stage development and mosquito transmission**
Hart R. J. , Ghaffar A., Abdalal S., Perrin B., Aly A. S. I.
BIOLOGY OPEN, cilt.5, sa.8, ss.1022-1029, 2016 (SCI İndekslerine Giren Dergi)
- IX. **A Plasmodium /-hydrolase modulates the development of invasive stages**
Groat-Carmona A. M. , Kain H., Brownell J., Douglass A. N. , Aly A. S. I. , Kappe S. H. I.
CELLULAR MICROBIOLOGY, cilt.17, sa.12, ss.1848-1867, 2015 (SCI İndekslerine Giren Dergi)
- X. **Plasmodium yoelii Vitamin B-5 Pantothenate Transporter Candidate is Essential for Parasite Transmission to the Mosquito**
Hart R. J. , Lawres L., Fritzen E., Ben Mamoun C., Aly A. S. I.
SCIENTIFIC REPORTS, cilt.4, 2014 (SCI İndekslerine Giren Dergi)
- XI. **A systematic analysis of the early transcribed membrane protein family throughout the life cycle of Plasmodium yoelii**
MacKellar D. C. , Vaughan A. M. , Aly A. S. I. , DeLeon S., Kappe S. H. I.
CELLULAR MICROBIOLOGY, cilt.13, sa.11, ss.1755-1767, 2011 (SCI İndekslerine Giren Dergi)
- XII. **Superior Antimalarial Immunity after Vaccination with Late Liver Stage-Arresting Genetically**

Attenuated Parasites

Butler N. S. , Schmidt N. W. , Vaughan A. M. , Aly A. S. I. , Kappe S. H. I. , Harty J. T.

CELL HOST & MICROBE, cilt.9, sa.6, ss.451-462, 2011 (SCI İndekslerine Giren Dergi)

- XIII. **SAP1 is a critical post-transcriptional regulator of infectivity in malaria parasite sporozoite stages**
Aly A. S. I. , Lindner S. E. , MacKellar D. C. , Peng X. , Kappe S. H. I.
MOLECULAR MICROBIOLOGY, cilt.79, sa.4, ss.929-939, 2011 (SCI İndekslerine Giren Dergi)
- XIV. **Subpatent infection with nucleoside transporter 1-deficient Plasmodium blood stage parasites confers sterile protection against lethal malaria in mice**
Aly A. S. I. , Downie M. J. , Ben Mamoun C. , Kappe S. H. I.
CELLULAR MICROBIOLOGY, cilt.12, sa.7, ss.930-938, 2010 (SCI İndekslerine Giren Dergi)
- XV. **Plasmodium falciparum PF10_0164 (ETRAPM10.3) Is an Essential Parasitophorous Vacuole and Exported Protein in Blood Stages**
MacKellar D. C. , O'Neill M. T. , Aly A. S. I. , Sacci J. B. , Cowman A. F. , Kappe S. H. I.
EUKARYOTIC CELL, cilt.9, sa.5, ss.784-794, 2010 (SCI İndekslerine Giren Dergi)
- XVI. **Preerythrocytic, live-attenuated Plasmodium falciparum vaccine candidates by design**
VanBuskirk K. M. , O'Neill M. T. , De la Vega P. , Maier A. G. , Krzych U. , Williams J. , Dowler M. G. , Sacci J. B. , Kangwanrangsan N. , Tsuboi T. , et al.
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- XVII. **Type II fatty acid synthesis is essential only for malaria parasite late liver stage development**
Vaughan A. M. , O'Neill M. T. , Tarun A. S. , Camargo N. , Phuong T. M. , Aly A. S. I. , Cowman A. F. , Kappe S. H. I.
CELLULAR MICROBIOLOGY, cilt.11, sa.3, ss.506-520, 2009 (SCI İndekslerine Giren Dergi)
- XVIII. **Malaria Parasite Development in the Mosquito and Infection of the Mammalian Host**
Aly A. S. I. , Vaughan A. M. , Kappe S. H. I.
ANNUAL REVIEW OF MICROBIOLOGY, cilt.63, ss.195-221, 2009 (SCI İndekslerine Giren Dergi)
- XIX. **Distinct malaria parasite sporozoites reveal transcriptional changes that cause differential tissue infection competence in the mosquito vector and mammalian host**
Mikolajczak S. A. , Silva-Rivera H. , Peng X. , Tarun A. S. , Camargo N. , Jacobs-Lorena V. , Daly T. M. , Bergman L. W. , de la Vega P. , Williams J. , et al.
MOLECULAR AND CELLULAR BIOLOGY, cilt.28, sa.20, ss.6196-6207, 2008 (SCI İndekslerine Giren Dergi)
- XX. **Malaria parasite pre-erythrocytic stage infection: Gliding and hiding**
Vaughan A. M. , Aly A. S. I. , Kappe S. H. I.
CELL HOST & MICROBE, cilt.4, sa.3, ss.209-218, 2008 (SCI İndekslerine Giren Dergi)
- XXI. **Targeted deletion of SAP1 abolishes the expression of infectivity factors necessary for successful malaria parasite liver infection**
Aly A. S. I. , Mikolajczak S. A. , Rivera H. S. , Camargo N. , Jacobs-Lorena V. , Labaied M. , Coppens I. , Kappe S. H. I.
MOLECULAR MICROBIOLOGY, cilt.69, sa.1, ss.152-163, 2008 (SCI İndekslerine Giren Dergi)
- XXII. **An efficient strategy for gene targeting and phenotypic assessment in the Plasmodium yoelii rodent malaria model**
Mikolajczak S. A. , Aly A. S. I. , Dumpit R. F. , Vaughan A. M. , Kappe S. H. I.
MOLECULAR AND BIOCHEMICAL PARASITOLOGY, cilt.158, sa.2, ss.213-216, 2008 (SCI İndekslerine Giren Dergi)
- XXIII. **Preerythrocytic malaria vaccine development**
Mikolajczak S. A. , Aly A. S. I. , Kappe S. H. I.
CURRENT OPINION IN INFECTIOUS DISEASES, cilt.20, sa.5, ss.461-466, 2007 (SCI İndekslerine Giren Dergi)
- XXIV. **A malarial cysteine protease is necessary for Plasmodium sporozoite egress from oocysts**
Aly A. S. I. , Matuschewski K.
JOURNAL OF EXPERIMENTAL MEDICINE, cilt.202, sa.2, ss.225-230, 2005 (SCI İndekslerine Giren Dergi)

- I. **Small Liver Stage Exported Proteins as Promising Malaria Subunit and DNA Vaccine Candidates**
 ALY A. S. I.
 The 12th Annual BioMalPar conference in Heidelberg, Germany. (2016), 18 - 20 Mayıs 2016
- II. **Characterization of Coenzyme A Biosynthesis Pathway during Plasmodium Development in Blood and Mosquito**
 ALY A. S. I.
 Annual Meeting of the American Society of Tropical Medicine and Hygiene, New Orleans, USA, 2 - 06 Kasım 2014
- III. **"Polyamine biosynthesis enzymes are critical for the development of the malaria parasite in the mammalian and mosquito hosts**
 ALY A. S. I.
 Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington DC, USA, 13 - 17 Kasım 2013
- IV. **Targeted deletion of a Plasmodium metabolite membrane transporter inhibits malaria parasite transmission to the mosquito vector**
 ALY A. S. I.
 Keystone Malaria Symposium in New Orleans, USA, 20 - 25 Ocak 2013
- V. **Recent Advances in Malaria Vaccine development**
 ALY A. S. I.
 The Second Congress of the Federation of Arab Societies of Clinical Microbiology and Infectious Diseases, Hammamat, Tunisia, 24 - 26 Mayıs 2012
- VI. **Subpatent infection with Nucleoside Transporter 1 deficient plasmodium blood stage parasites confers sterile protection against lethal malaria in mice**
 ALY A. S. I.
 The 6th annual conference for the Saudi Society of Medical Microbiology Infectious Diseases In Jeddah, Saudi Arabia., 17 - 20 Eylül 2011
- VII. **"SAP1 is a selective master regulator of malaria parasite liver infection**
 ALY A. S. I.
 The Sixth Annual BioMalPar conference in Heidelberg, Germany., 3 - 05 Mayıs 2010
- VIII. **SAP1 is a selective master regulator of malaria parasite liver infections**
 ALY A. S. I.
 The Annual Seattle Parasitology Meeting in Seattle, USA., 19 - 22 Temmuz 2009
- IX. **Plasmodium sporozoites lacking an asparagine rich protein fail to establish liver stage infection and elicit sterile immunity against malaria**
 ALY A. S. I.
 Annual Meeting of the American Society of Tropical Medicine and Hygiene, Philadelphia, USA, 4 - 08 Kasım 2007
- X. **Targeted deletion of a Plasmodium bacterial-type amino acid decarboxylase abolishes malaria parasite transmission to the mosquito vector**
 ALY A. S. I.
 Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington DC, USA, 11 - 15 Aralık 2005
- XI. **De novo polyamine biosynthesis is crucial for Plasmodium transmission to the mosquito vector**
 ALY A. S. I.
 Molecular Parasitology Meeting XVI, 01 Eylül 2005
- XII. **A malarial cysteine protease is necessary for Plasmodium sporozoite egress from oocysts**
 ALY A. S. I.
 Molecular Parasitology Meeting XVI, 01 Eylül 2005
- XIII. **UIS2, a new Plasmodium candidate for multistage drug targeting**
 Aly A. S. I., Janse C., Waters A., Matuschewski K.
 21st Congress of the German-Society-of-Parasitology, Würzburg, Almanya, 17 - 20 Mart 2004, cilt.293, ss.86-87
- XIV. **Identification of Plasmodium secretory proteins that are specifically upregulated in salivary gland sporozoites new vaccine candidates for the pre-erythrocytic malaria stages**

ALY A. S. I.

Joint Annual Meeting of the German and Dutch Societies for Parasitology (DGP, NVP), 01 Eylül 2002

Desteklenen Projeler

Aly A. S. I. , TÜBİTAK Projesi, Karaciğer Evresindeki Sıtma Parazitleri Eksporom Proteinlerinin İşlevsel Karakterizasyonu., 2020 - 2023

Aly A. S. I. , Yükseköğretim Kurumları Destekli Proje, Multiplex Targeting of CRISPR/Cas9 System by Using Ribozymes for Multiple Gene Editing in Rodent Malaria Parasites Plasmodium berghei and Plasmodium yoelii., 2020 - 2021

Aly A. S. I. , Kına Ü. Y. , Yükseköğretim Kurumları Destekli Proje, Multiplex targeting of CRISPR/Cas9 system by using ribozymes for multiple gene editing in rodent malaria parasites; Plasmodium berghei and Plasmodium yoelii, 2020 - 2021

Akbaş F., Aly A. S. I. , Yükseköğretim Kurumları Destekli Proje, Genetic characterization of DNA photolyase gene in rodent malaria parasite using Crispr-Cas9 genome editing technology, 2019 - 2020

Aly A. S. I. , Yükseköğretim Kurumları Destekli Proje, Recombinant protein expression of conserved plasmodium egress proteins as targets for the development of novel malaria therapy vaccines and diagnostic reagents, 2018 - 2019

Aly A. S. I. , Yükseköğretim Kurumları Destekli Proje, Establishing the CRISPR/Cas9 platform to generate live attenuated malaria vaccines by deleting essential malarial genes, 2018 - 2019

Aly A. S. I. , Desteklenmiş Diğer Projeler, DNA-Vaccination against Plasmodium Liver Stage Exported Proteins in Presence of Prior SIV Infection., 2015 - 2018

Aly A. S. I. , Desteklenmiş Diğer Projeler, Selection of the Determinants of Plasmodium Sporozoite Infectivity and Motility., 2015 - 2017

Bilimsel Dergilerdeki Faaliyetler

Scientific Reports, Editör, 2014 - Devam Ediyor

Atıflar

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