

# Саргис Агасиевич Агаян

✉ aghayan.sargis@ysu.am



## Научно-исследовательский институт биологии

Կենդանաբանության լաբորատորիա

Ведущий научный сотрудник

## Знание языков

Հայերեն

## Научные интересы

- Молекулярная паразитология
- Молекулярная эволюция
- Экспериментальная эволюция
- Климатические изменения и инфекционные заболевания

## Публикации

Статья

### Preliminary investigations of parasite contamination of water sources in Armenia

Oleg V. Shcherbakov, Sargis A. Aghayan, Hasmik Sh. Gevorgyan, Tigran A. Abgaryan,

Ruzanna H. Gevorgyan, Alejandro Jiménez-Meléndez, Lucy J. Robertson

Food and Waterborne Parasitology 2024 e00221

Статья

### First record of *Arion vulgaris* Moquin-Tandon, 1855 (Arionidae) from Armenia

Meri Arzumanyan, Gohar Zhamakochyan, Hasmik Torosyan, Arevik Ghrmajyan, Marine Arakelyan,

Siranush Nanagulyan, Lusine Margaryan, Sargis Aghayan, Robert B Davis, Agnes Turoci

Biodiversity Data Journal 2024 e121176

Статья

### *Toxoplasma gondii* in rodents and shrews in Armenia, Transcaucasia

Sargis A. Aghayan, Manan V. Asikyan, Oleg Shcherbakov, Astghik Ghazaryan, Tigran Hayrapetyan,

Alexander Malkhasyan, Hasmik Gevorgyan, Arseny Makarikov, Svetlana Kornienko, Ahmad Daryani

International Journal for Parasitology: Parasites and Wildlife 2024 41-48

Статья

### Enhanced clindamycin delivery using chitosan-coated niosomes to prevent *Toxoplasma gondii* strain VEG in pregnant mice: an experimental study

Mitra Sadeghi, Seyed Abdollah Hosseini, Shahabeddin Sarvi, Pedram Ebrahim Nejad,

Hossein Asgaryan Omran, Zohre Zare, Shirzad Gholami, Alireza Khalilian, Seyedeh Melika Ahmadi,

Fatemeh Hajizadeh, Mostafa Tork, Ahmad Daryani, Sargis A. Aghayan

Tropical Medicine and Health 2024 1-13

Статья

**How genomics can help biodiversity conservation**

Kathrin Theissinger, Carlos Fernandes, other 73 coauthors, Sargis A. Aghayan

Trends in Genetics 2023 549-559

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Статья

**Phylogenomics revealed migration routes and adaptive radiation timing of Holarctic malaria mosquito species of the Maculipennis Group**

Andrey A Yurchenko, Anastasia N Naumenko, Gleb N Artemov, Dmitry A Karagodin, James M Hodge, Alena I Velichevskaya, Alina A Kokhanenko, Semen M Bondarenko, Mohammad R Abai, Maryam Kamali, Mikhail I Gordeev, Anton V Moskaev, Beniamino Caputo, Sargis A Aghayan, Elina M Baricheva, Vladimir N Stegnyy, Maria V Sharakhova, Igor V Sharakhov

BMC biology 2023 1-20

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**Valorization of whey-based side streams for microbial biomass, molecular hydrogen, and hydrogenase production**

Anna Poladyan, Karen Trchounian, Ela Minasyan, Meri Iskandaryan, Hayarpi Aghekyan, Sargis Aghayan, Avetis Tsaturyan, Ani Paloyan, Garabed Antranikian, Lev Khojetsyan

Applied Microbiology and Biotechnology 2023 4683-4696

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**An updated list of mosquito species in Armenia and Transcaucasian region responsible for *Dirofilaria* transmission: A review**

Oleg V Shcherbakov, Sargis A Aghayan, Hasmik Sh Gevorgyan, Vladimir A Burlak, Valentina S Fedorova,

Gleb N Artemov

Journal of Vector Borne Diseases 2023 343-352

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**Global epidemiology and spatial distribution of *Toxoplasma gondii* in goats: Protocol for a systematic review and Bayesian hierarchical meta-analysis**

Afsaneh Amouei, Azadeh Mizani, Ahmad Ali Hanafi-Bojd, Tohid Jafari-Koshki, Shahabeddin Sarvi,

Sargis A. Aghayan, Fateme Amuei, Tooran Nayeri Chegeni, Ahmad Daryani

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**Evaluating the Inhibitory Effects of Colchicine and Propranolol on *Toxoplasma gondii* Entrance into Host Cells in vitro and in vivo**

Daryani Ahmad, Mohammad Ali Ebrahimzadeh, Abdol Sattar Pagheh, Mahdi Sharif, Shahabeddin Sarvi,

Ehsan Ahmadpour, Sargis Aghayan, Fatemeh Rezaei

Infection Epidemiology and Microbiology 2022 251-258

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**Deep genome-wide phylogeographic structure indicates cryptic diversity in the Middle Spotted Woodpecker (*Dendrocoptes medius*)**

Manuel Schweizer, Qindong Tang, Reto Burri, Sergei V Drovetski, Hugo Robles, Kristof Zyskowski,

Sargis Aghayan, Marko Rakovic, Gilberto Pasinelli

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**Chromosome-scale Echinococcus granulosus (genotype G1) genome reveals the Eg95 gene family and conservation of the EG95-vaccine molecule**

Pasi K Korhonen, Liina Kinkar, Huimin Cai, Neil D Young, Marshall W Lightowlers, Charles Gauci, Abdul Jabbar, Bill CH Chang, Tao Wang, Andreas Hofmann, Anson V Koehler, Junhua Li, Jiandong Li, Jiefang Yin, Daxi Wang, Huanming Yang, Urmas Saarma, David J Jenkins, Teivi Laurimäe, Mohammad Rostami-Nejad, Mitra Sharbat, Hossein Mirhendi, Malik Irshadullah, Francisco Ponce-Gordo, Sami Simsek, Adriano Casulli, Houria Zait, Hripsime Atoyian, Mario Luiz de la Rue, Thomas Romig, Marion Wassermann, Sargis A Aghayan, Hasmik Gevorgyan, Bicheng Yang, Robin B Gasser  
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**The era of reference genomes in conservation genomics**

Giulio Formenti, Kathrin Theissinger, Carlos Ferna, Etc Etc Etc, Sargis A Aghayan, Etc. Etc,  
Gert Wörheide, Yannick Wurm, Gabrielle Zammit  
Trends in Ecology and Evolution 2022 197-202

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**THE BREEDING AVIAN FAUNA OF MARMARIK RESERVOIR, KOTAYK REGION, ARMENIA**

M.V. ASIKYAN, S.A. AGHAYAN, G. G. GRIGORYAN, E. A. KHACHATRYAN, K. E. AGHABABYAN  
Biological Journal of Armenia 2022 72-78

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**ЭКСТЕНСИВНОСТЬ ИНВАЗИИ ЛЕЙШМАНИОЗА СОБАК В МЕГИРСКОМ РАЙОНЕ СЮНИКСКОГО МАРЗА АРМЕНИИ**

Слободяник РВ, Зыкова СС, Лунегов АМ, Агаян СА, ОВ Щербаков  
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**Burden of Ischemic Heart Disease in Central Asian Countries, 1990-2017**

Michelle Lui, Saeid Safiri, Alibek Mereke, Kairat Davletov, Nana Mebonia, Akbope Myrkassymova, Timur Aripov, Erkin Mirrakhimov, Sargis A Aghayan, Amiran Gamkrelidze, Mohsen Naghavi, Jacek A Kopec, Nizal Sarrafzadegan  
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**Low MSP-1 haplotype diversity in the West Palearctic population of the avian malaria parasite Plasmodium relictum**

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Malaria Journal 2021 1-9

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**First report about toxic cyanobacterial bloom occurrence in Lake Sevan, Armenia**

Gor Gevorgyan, Karsten Rinke, Martin Schultze, Armine Mamyian, Anton Kuzmin, Olga Belykh, Ekaterina Sorokovikova, Armine Hayrapetyan, Anahit Hovsepyan, Termine Khachikyan, Sargis Aghayan, Galina Fedorova, Andrey Krasnopeev, Sergey Potapov, Irina Tikhonova  
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**Genetic characterization of *Toxoplasma gondii* in Iranian HIV positive patients using multilocus nested-PCR-RFLP method**

Seyed Abdollah Hosseini, Mehdi Sharif, Shahabeddin Sarvi, Saeid Abediankenari,

Mohammad Bagher Hashemi-Soteh, Afsaneh Amouei, Mahboobeh Montazeri, Sargis A Aghayan,

Sara Gholami, Davoud Shaker, Azadeh Mizani, Shafiqeh Shabanzadeh, Ahmad Daryani

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**Summer observations of European Goldcrest *Regulus regulus* and European Serin *Serinus serinus* in Armenia**

Marko Raković, Sargis A Aghayan, Sergei V. Drovetski, Ivan Medenica, Karen Aghababyan

Sandgrouse 2020 294-297

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**The First Report of *Trichinella britovi* in Armenia**

Gohar Grigoryan, Sargis A Aghayan, Hasmik Gevorgyan, Alexander Malkhasyan, Isabelle Vallee,

Gregory Karadjian

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**A systematic review of *Toxoplasma gondii* antigens to find the best vaccine candidates for immunization**

Fatemeh Rezaei, Shahabeddin Sarvi, Mahdi Sharif, Seyed Hossein Hejazie, Abdol sattar Pagheh,

Sargis A. Aghayan, Ahmad Daryani

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**Mortality, morbidity, and hospitalisations due to influenza lower respiratory tract infections, 2017: an analysis for the Global Burden of Disease Study 2017**

Troeger CE, Blacker BF, Khalil IA, Zimsen SRM, Albertson SB, Abate D, Sargis A. Aghayan, et al

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**Geographic patterns of mtDNA and Z-linked sequence variation in the Common Chiffchaff and the 'chiffchaff complex'**

Marko Raković, Julio M. Neto, Ricardo G. Lopes, J. Martin Collinson, Evgeniy A. Koblik, Igor V. Fadeev,

Yuriy V. Lohman, Sargis A. Aghayan, Giovanni Boano, Marco Pavia, Yoav Perlman, Yosef Kiat,

Amir Ben Dov, Gary Voelker, Sergei V. Drovetski

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Статья

**Aetiology of livestock fetal mortality in Mazandaran province, Iran**

Afsaneh Amouei, Mehdi Sharif, Shahabeddin Sarvi, Ramin Bagheri Nejad, Sargis A Aghayan,

Mohammad Bagher Hashemi-Soteh, Azadeh Mizani, Seyed Abdollah Hosseini, Sara Gholami,

Alireza Sadeghi, Mohammad Sarafrazi, Ahmad Daryani

PeerJ 2019 e5920 1-14

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**Evidence of Crimean-Congo Haemorrhagic Fever Virus Occurrence in Ixodidae ticks of Armenia**

Hasmik Gevorgyan, Gohar Grigoryan, Hripsime Atoyan, Martin Rukhkyan, Astghik Hakobyan, Hovakim Zakaryan, Sargis A. Aghayan

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**Seroprevalence of *Toxoplasma gondii* infection in cancer patients: A systematic review and meta-analysis**

Davood Anvari, Mehdi Sharif, Shahabeddin Sarvi, Sargis A.Aghayan, Shirzad Gholami,

Abdol Sattar Pagheh, Seyed Abdollah Hosseini, Reza Saberi, Tooran Nayeri Chegeni,

Zahra Hosseininejad, Ahmad Daryani

Microbial Pathogenesis 2019 30-42

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***Fasciola* spp. in Armenia: genetic diversity in a global context**

Sargis A. Aghayan, Hasmik Gevorgian, Dennis Ebi, Hripsime A Atoyan, Francis Addy, Ute Mackenstedt,

Thomas Romig, Marion Wassermann

Veterinary Parasitology 2019 21-31

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**A systematic review on efficiency of microneme proteins to induce protective immunity against *Toxoplasma gondii***

Samira Dodangeh, Ahmad Daryani, Mehdi Sharif, Sargis A. Aghayan, Abdol Satar Pagheh,

Shahabeddin Sarvi, Fatemeh Rezaei

European Journal of Clinical Microbiology and Infectious Diseases 2019 617-629

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**Relationship between toxoplasmosis and obsessive compulsive disorder: A systematic review and meta-analysis"**

Tooran Nayeri Chegeni, Shahabeddin Sarvi, Afsaneh Amouei, Mahmood Moosazadeh,

Zahra Hosseininejad, Sargis A. Aghayan, Ahmad Daryani

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**A Systematic Review of *Toxoplasma gondii* Genotypes and Feline: Geographical Distribution Trends**

Afsaneh Amouei, Shahabeddin Sarvi, Mehdi Sharif, Sargis A. Aghayan, Javad Javidnia, Azadeh Mizani,

Mahmood Moosazadeh, Nemat Shams, Seyed Abdollah Hosseini, Zahra Hosseininejad,

Tooran Nayeri Chegeni, Hamid Badali, Ahmad Daryani

Transboundary and Emerging Diseases 2019 1-19

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**Infection of parthenogenetic lizards by blood parasites does not support the "Red Queen hypothesis" but reveals the costs of sex**

Marine Arakelyan, Tehmine Harutyunyan, Sargis A.Aghayan, Miguel A.Carretero

Zoology 2019 1-9

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**Is *Toxoplasma gondii* a potential risk factor for Alzheimer's disease? A systematic review and meta-analysis**

Tooran Nayeri Chegeni, Shahabeddin Sarvi, Mahmood Moosazadeh, Mehdi Sharif, Sargis A. Aghayan, Afsaneh Amouei, Zahra Hosseininejad, Ahmad Daryani  
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**Is there any association between *Toxoplasma gondii* infection and depression? A systematic review and meta-analysis**

Tooran Nayeri Chegeni, Mehdi Sharif, Shahabeddin Sarvi, Mahmood Moosazadeh, Mahbobeh Montazeri, Sargis A. Aghayan, Nader Jafari Balalami, Shirzad Gholami, Zahra Hosseininejad, Reza Saberi, Davood Anvari, Shaban Gohardehi, Ahmad Daryani  
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**A systematic review on the role of GRA proteins of *Toxoplasma gondii* in host immunization**

Fatemeh Rezaei, Mahdi Sharif, Shahabeddin Sarvi, Seyed Hossein Hejazi, Sargis Aghayan, Abdol Sattar Pagheh, Samira Dodangeh, Ahmad Daryani  
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**Is *Toxoplasma gondii* playing a positive role in multiple sclerosis risk? A systematic review and meta-analysis**

Reza Saberi, Mehdi Sharif, Shahabeddin Sarvi, Sargis A. Aghayan, Seyed Abdollah Hosseini, Davood Anvari, Tooran Nayeri Chegeni, Zahra Hosseininejad, Ahmad Daryani  
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**Aetiology of livestock fetal mortality in Mazandaran province, Iran**

Afsaneh Amouei, Mehdi Sharif, Shahabeddin Sarvi, Ramin Bagheri Nejad, Sargis A Aghayan, Mohammad Bagher Hashemi-Soteh, Azadeh Mizani, Seyed Abdollah Hosseini, Sara Gholami, Alireza Sadeghi, Mohammad Sarafrazi, Ahmad Daryani  
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**A standard photomap of the ovarian nurse cell chromosomes for the dominant malaria vector in Europe and Middle East *Anopheles sacharovi***

Gleb N. Artemov, Alena I. Velichevskaya, Semen M. Bondarenko, Gayane H. Karagyan, Sargis A. Aghayan, Marine S. Arakelyan, Vladimir N. Stegnyy, Igor V. Sharakhov, Maria V. Sharakhova  
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**Alcohol use and burden for 195 countries and territories, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016**

Max G Griswold, Nancy Fullman, Caitlin Hawley, Sargis Aghasi Aghayan, et al.  
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**Determinants of avian malaria prevalence in mountainous Transcaucasia**

Hripsime A. Atoyán, Mariam Sargsyan, Hasmik Gevorgyan, Marko Rakovic, Igor Fadeev,  
Vahagn Muradyan, Ahmad Daryani, Mehdi Sharif, Sargis A. Aghayan  
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**Drug Resistance in Toxoplasma Gondii**

Mahbobeh Montazeri, Saeed Mehrzadi, Mehdi Sharif, Shahabeddin Sarvi, Asal Tanzifi, Sargis A. Aghayan,  
Ahmad Daryani  
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**A test of the European Pleistocene Refugial Paradigm, using a Western Palearctic endemic bird species**

Sergei V. Drovetski, Igor V. Fadeev, Marko Raković, Ricardo J. Lopes, Giovanni Boano, Marco Pavia,  
Evgeniy A. Koblik, Yuriy V. Lohman, Yaroslav A. Red'kin, Sargis A. Aghayan, Sandra Reis,  
Sofya S. Drovetskaya, Gary Voelker  
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**Global, Regional, and National Age-Sex-Specific Mortality and Life Expectancy, 1950-2017: A Systematic Analysis for the Global Burden of Disease Study 2017.**

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**Global, Regional, and National Incidence, Prevalence, and Years Lived with Disability for 354 Diseases and Injuries for 195 Countries and Territories, 1990-2017: A Systematic Analysis for the Global Burden of Disease Study 2017.**

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**Global, Regional, and National Disability-Adjusted Life-Years (DALYs) for 359 Diseases and Injuries and Healthy Life Expectancy (HALE) for 195 Countries and Territories, 1990-2017: A Systematic Analysis for the Global Burden of Disease Study 2017.**

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**Measuring Progress from 1990 to 2017 and Projecting Attainment to 2030 of the Health-Related Sustainable Development Goals for 195 Countries and Territories: A Systematic Analysis for the Global Burden of Disease Study 2017.**

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**Population and Fertility by Age and Sex for 195 Countries and Territories, 1950–2017: A Systematic Analysis for the Global Burden of Disease Study 2017.**

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**Global, Regional, and National Comparative Risk Assessment of 84 Behavioural, Environmental and Occupational, and Metabolic Risks or Clusters of Risks for 195 Countries and Territories, 1990–2017: a Systematic Analysis for the Global Burden of Disease Study**

Stanaway Jeffrey D, Ashkan Afshin, Emmanuela Gakidou, Stephen S Lim, Degu Abate, Kalkidan Hassen Abate, Cristiana Abbafati, Sargis A. Aghayan, et al.  
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**Toxoplasma gondii Genotypes and Feline: Geographical Distribution Trends**

Amouei Afsaneh, Sharif Mehdi, Sarvi Shahabeddin, Aghayan Sargis A., Javidnia Javad, Mizani Azadeh, Hosseini Seyed-Abdollah, Shams Nemat, Hosseininejad Zahra, Chegeni Tooran Nayeri, Badali Hamid, Moosazadeh Mahmood, Daryani Ahmad  
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**Does the niche breadth or trade-off hypothesis explain the abundance-occupancy relationship in avian Haemosporidia?**

Drovetski, S. V., Aghayan S. A., Mata, V. A., Lopes, R. J., Mode, N. A., Harvey, J. A., Voelker, G.  
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**Буланый вьюрок *Rhodospiza obsoleta* - новый вид для фауны Армении**

В.Ю.Ананян, С.В.Дровецкий, Е.А.Коблик, И.В.Фадеев, С.А.Агаян  
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**Статус зелёной пересмешки *Hippolais icterina* в Армении**

С.А.Агаян, В.Ю.Ананян, С.В.Дровецкий, Е.А.Коблик, И.В.Фадеев  
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**Preliminary Report on Avian Malaria Infection in a Breeding Colony of the Lesser Kestrel in Armenia**

Aghayan S.A., Hovhannisyants Ts.S., Ghasabyan M.G., Drovetski S.V.  
Raptors Conservation 2013 96-99  
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Статья

**«ՏԵՐԵՐԻ ԼԱՅՆ ՍՊԵԿՏՐ-ՎԱՐԱԿՎԱԾՈՒԹՅԱՆ ԲԱՐՁՐ ԷՔՍԵԼՍԻՎՈՒԹՅՈՒՆ» ԿԱՊԻ ԲԱՅԱՀԱՅՏՈՒՄԸ**



ԿՈՎԿԱՍԻ ԵՐԿՈՒ ԼՍՏԱԿԱՑ ՏԵՍԱԿԻ ԹՈՂՈՒՆՆԵՐԻ ԼԵՅԿՈՑԻՏՈՂՈՆ ՑԵՂԻ ՄԱԿԱԲՈՒՅԾՆԵՐԻ ՄՈՏ  
Ս.Ա.ԱՂԱՅԱՆ

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**MIGRATORY BIRDS AS A TOOL TO COLONIZE NEW TERRITORIES FOR AVIAN  
HAEMOSPORIDIANS**

S. A. Aghayan

Electronic Journal of Natural Sciences of NAS RA 2012 20-24

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**PREVALENCE AND DIVERSITY OF AVIAN HAEMOSPORIDIAN PARASITE IN PHYLLOSCOPIDAE:  
COMPARATIVE ANALYZES OF OUR AND PUBLISHED DATA**

S. A. Aghayan

Electronic Journal of Natural Sciences of NAS RA 2012 25-28

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**Թռչունների արյան սպորավոր մակաբույծների բազմազանությունը և տարածվածությունը  
Կովկասում**

Ս.Ա. Աղայան, Գ.Հ. Բոյախյան

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**ЛАБОРАТОРНАЯ ОЦЕНКА МИКРОЭКОЛОГИЧЕСКОГО ДИСБАЛАНСА ТОЛСТОЙ КИШКИ**

Շ.Ա. Ագայն, Ա.Մ. Մանվելյան, Մ.Ա. Բալայան, Յ.Ս. Սեփոյան, Ա.Յ. Սեփոյան

Biological Journal of Armenia 2007 261-264

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Конференция

**Determinants of avian malaria prevalence in Armenia**

Atoyan H., Sargsyan M., Aghayan S.A.

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Конференция

**Prevalence of Cystic Echinococcosis Among Ruminants in Armenia**

Gevorgyan H., Aghayan S.A., Grigoryan G., Sagoyan J., Romig T.

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Конференция

**WHICH AVIAN HAEMOSPORIDIA ARE BETTER COLONIZERS?**

Aghayan S.A, Atoyan H.A., Harvey J.A., Voelker G., Drovetski S.V.

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Конференция

**Evidence of Crimean-Congo Haemorrhagic Fever Virus Occurrence in Ixodidae ticks of Armenia**

Gevorgyan H, Grigoryan G, Atoyan H, Rukhkyan M, Hakobyan A, Zakaryan H, Aghayan SA

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Конференция

**Research advances in vaccines of Toxoplasma gondii based on microneme proteins (MICs): a**

**systematic review**

Sarvi Sh, Dodangeh S, Daryani A, Sharif M, Aghayan S. A, Pagheh Abdol Satar

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*Конференция*

**Use of Long-legged Buzzard as a model for conservation of Raptors in Khosrov Forest State Reserve**

Sargis A. Aghayan, Karen Aghababyan

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*Конференция*

**GEOGRAPHIC PATTERNS OF MTDNA AND Z-LINKED SEQUENCE VARIATION IN THE COMMON CHIFFCHAFF**

Raković M, Neto J, Lopes R, Collinson M, Koblik E, Fadeev I, Lohman Y, Aghayan S, Boano G, Pavia M, Perlman Y, Kiat Y, Ben Dov A, Voelker G, Drovetski S

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*Конференция*

**Infection of parthenogenetic lizards by blood parasites does not support the “Red Queen hypothesis” but reveals the costs of sex**

MARINE ARAKELYAN, TEHMINE HARUTYUNYAN, SARGIS AGHAYAN, MIGUEL A. CARRETERO

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*Конференция*

**The valorization of whey-based side-streams for microbial biomass, hydrogen and hydrogenase enzyme production**

Anna Poladyan, Hayarpi Aghekyan, Ella Minasyan, Karen Trchounian, Ani Paloyan, Sargis Aghayan, Garabed Antranikian, Meri Iskandaryan, Diana Ghevondyan

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