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Leading researcher

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🌐 Language skills

Հայերեն

🔬 Scientific interests

- Molecular parasitology
- Molecular evolution
- Experimental parasitology
- Climate Change and Infectious Diseases

📖 Publications

Article

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

Article

How genomics can help biodiversity conservation

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

Trends in Genetics 2023 549-559

Article

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

Article

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 Khoyetsyan

Applied Microbiology and Biotechnology 2023 4683-4696

Article

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

Article

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

PLOS ONE 2023 e0290012

Article

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

Article

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

IBIS: International Journal of Avian Sciences 2022 719-734

Article

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 Atoyan, Mario Luiz de la Rue, Thomas Romig,

Marion Wassermann, Sargis A Aghayan, Hasmik Gevorgyan, Bicheng Yang, Robin B Gasser

Communications biology 2022 1-10

Article

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

Article

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

Article

ЭКСТЕНСИВНОСТЬ ИНВАЗИИ ЛЕЙШМАНИОЗА СОБАК В МЕГИРСКОМ РАЙОНЕ СЮНИКСКОГО МАРЗА АРМЕНИИ

Слободяник РВ, Зыкова СС, Лунегов АМ, Агаян СА, ОВ Щербаков

Международный вестник ветеринарии 2022 92-99

Article

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

IJC Heart & Vasculature 2021 100726

Article

Low MSP-1 haplotype diversity in the West Palearctic population of the avian malaria parasite Plasmodium relictum

Olof Hellgren, Victor Kelbskopf, Vincenzo A Ellis, Arif Ciloglu, Mélanie Duc, Xi Huang, Ricardo J Lopes,

Vanessa A Mata, Sargis A Aghayan, Abdullah Inci, Sergei V Drovetski

Malaria Journal 2021 1-9

Article

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

Gor Gevorgyan, Karsten Rinke, Martin Schultze, Armine Mamyán, Anton Kuzmin, Olga Belykh,

Ekaterina Sorokovikova, Armine Hayrapetyan, Anahit Hovsepyan, Termine Khachikyan, Sargis Aghayan,

Galina Fedorova, Andrey Krasnopeev, Sergey Potapov, Irina Tikhonova

International Review of Hydrobiology 2020 1-12

Article

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, Shafigheh Shabanzadeh, Ahmad Daryani

Veterinary Parasitology 2020 322-328

Article

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

Article

The First Report of Trichinella britovi in Armenia

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

Gregory Karadjian

Iranian Journal of Parasitology 2020 452-456

Article

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
Microbial Pathogenesis 2019 172-184

Article

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
LANCET RESPIRATORY MEDICINE 2019 69-89

Article

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
PLOS ONE 2019 e0210268 1-20

Article

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

Article

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
Journal of Arthropod-Borne Diseases 2019 9-16

Article

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

Article

***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

Article

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

Article

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

PLOS NEGLECTED TROPICAL DISEASES 2019 e0007306

Article

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

Article

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

Article

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

Microbial Pathogenesis 2019 103751

Article

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, Mehdi Sharif, Shahabeddin Sarvi, Seyed Hossein Hejazi, Sargis Aghayan,

Abdol Sattar Pagheh, Samira Dodangeh, Ahmad Daryani

Journal of Microbiological Methods 2019 105696

Article

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'
Journal of Neuroimmunology 2018 57-62

Article

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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Article

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
Malaria Journal 2018 1-11

Article

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.
The Lancet 2018 1-21

Article

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
Biologia 2018 1123-1130

Article

Drug Resistance in *Toxoplasma Gondii*

Mahbobeh Montazeri, Saeed Mehrzadi, Mehdi Sharif, Shahabeddin Sarvi, Asal Tanzifi, Sargis A. Aghayan, Ahmad Daryani
FRONTIERS IN MICROBIOLOGY 2018 1-15

Article

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
Proceedings of the Royal Society B: Biological Sciences 2018 1-8

Article

Global, Regional, and National Age-Sex-Specific Mortality and Life Expectancy, 1950-2017: A Systematic Analysis for the Global Burden of Disease Study 2017.

Dicker Daniel, Grant Nguyen, Degu Abate, Kalkidan Hassen Abate, Solomon M Abay, Cristiana Abbafati, Nooshin Abbasi, Sargis A. Aghayan, et al.

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Article

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.

James Spencer L, Degu Abate, Kalkidan Hassen Abate, Solomon M Abay, Cristiana Abbafati, Nooshin Abbasi, Hedayat Abbastabar, Sargis A. Aghayan, et al.

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Article

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.

Kyu Hmwe Hmwe, Degu Abate, Kalkidan Hassen Abate, Solomon M Abay, Cristiana Abbafati, Nooshin Abbasi, Hedayat Abbastabar, Sargis A. Aghayan, et al.

The Lancet 2018 1859-1922

Article

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.

Lozano Rafael, Nancy Fullman, Degu Abate, Solomon M Abay, Cristiana Abbafati, Nooshin Abbasi, Hedayat Abbastabar, Sargis A. Aghayan, et al.

The Lancet 2018 2091-2138

Article

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.

Murray Christopher J L, Charlton S K H Callender, Xie Rachel Kulikoff, Vinay Srinivasan, Degu Abate, Kalkidan Hassen Abate, Solomon M Abay, Sargis A. Aghayan, et al.

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Article

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 2017.

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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Article

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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Article

Буланый вьюрок *Rhodospiza obsoleta* - новый вид для фауны Армении

В.Ю.Ананян, С.В.Дровецкий, Е.А.Коблик, И.В.Фадеев, С.А.Агаян

Русский орнитологический журнал 2013 1799-1803

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Article

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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Article

Preliminary Report on Avian Malaria Infection in a Breeding Colony of the Lesser Kestrel in Armenia

Aghayan S.A., Hovhannisyan Ts.S., Ghasabyan M.G., Drovetski S.V.

Raptors Conservation 2013 96-99

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Article

«ՏԵՐԵՐԻ ԼԱՅՆ ՍՊԵԿՏՐ-ՎԱՐԱԿՎԱԾՈՒԹՅԱՆ ԲԱՐՁՐ ԷԶՍԵՆՍԻՎՈՒԹՅՈՒՆ» ԿԱՊԻ ԲԱՅԱՀԱՅՏՈՒՄԸ ԿՈՎԿԱՍԻ ԵՐԿՈՒ ՆՍԱԿՅԱՑ ՏԵՍԱԿԻ ԹՈՂՈՒՆՆԵՐԻ ԼԵՅԿՈՑԻՏՈՂՈՆ ՑԵՐԻ ՄԱԿԱՐՈՒՅՆԵՐԻ ՄՈՏ Ս.Ա.ԱՂԱՅԱՆ

Biological Journal of Armenia 2013 93-99

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Article

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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Article

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

<http://ejns.sci.am>

Article

Թռչունների արյան սպորավոր մակաբույծների բազմազանությունը և տարածվածությունը Կովկասում

Ս.Ա. Աղայան, Գ.Հ. Բոյախյան

ՀՀ ԳԱԱ զեկոլոյցներ 2012 211-218

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Article

ЛАБОРАТОРНАЯ ОЦЕНКА МИКРОЭКОЛОГИЧЕСКОГО ДИСБАЛАНСА ТОЛСТОЙ КИШКИ

С.А. Агаян, А.М. Манвелян, М.А. Балаян, Э.С. Пепоян, А.З. Пепоян

Biological Journal of Armenia 2007 261-264

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Conference

Determinants of avian malaria prevalence in Armenia

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

Conference

Prevalence of Cystic Echinococcosis Among Ruminants in Armenia

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

Conference

WHICH AVIAN HAEMOSPORIDIA ARE BETTER COLONIZERS?

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

Conference

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

Conference

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

Conference

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

Sargis A. Aghayan, Karen Aghababyan

Conference

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

Conference

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

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

Conference

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
