

# Marine Semyon Arakelyan

## Faculty of Biology

Chair of Zoology

Head of the chair, professor

☎ 091 195479

✉ arakelyanmarine@ysu.am



## Education

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Biology
<b>Date</b>	1991 - 1996
<b>Degree name</b>	Qualified specialist

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## Scientific Rank/degree

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<b>Institution</b>	Yerevan State University
<b>Date</b>	2019
<b>Degree name</b>	Professor
<b>Specialty</b>	Biological sciences

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<b>Institution</b>	Scientific Center of Zoology and Hydroecology, Yerevan, Armenia
<b>Date</b>	2012
<b>Degree name</b>	Doctor
<b>Specialty</b>	Biological sciences
<b>Research Topic</b>	: Microevolutionary processes in sympatric populations of some reptiles from Republic of Armenia and adjacent territories

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<b>Institution</b>	Zoological Institute of Russian Academy of Science, St.-Petersburg, Russia
<b>Date</b>	2001
<b>Degree name</b>	Candidate
<b>Specialty</b>	Biological sciences
<b>Scientific Supervisor</b>	Prof. Ilya Darevsky
<b>Research Topic</b>	A Skeletochronological Study of the Rock Lizards of Armenia and Some Problems of their Ecology

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## Language skills

Русский English

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## Scientific interests

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- Biodiversity of Caucasus
  - Hybridogenous speciation
  - Parthenogenesis in reptiles
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## Publications

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*Article*

### **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

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*Article*

### **Features of the Biology of Alien Species Prussian Carp (Cyprinidae, Actinopterygii) from the Water Bodies of Armenia**

S. Kh. Pipoyan,, L. Kh. Benoyan, A. F. Grigoryan, M. R. Nersisyan, G. H. Chakhalyan,  
K. S. Hambartsumyan, M. S. Arakelyan, I. E. Stepanyan  
Russian Journal of Biological Invasions 2024 119-133

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*Article*

### **Variants of a major DNA satellite discriminate parental subgenomes in a hybrid parthenogenetic lizard *Darevskia unisexualis* (Darevsky, 1966)**

Pavel Nikitin, Sviatoslav Sidorov, Thomas Liehr, Ksenia Klimina, Ahmed Al-Rikabi, Vitaly Korchagin,  
Oxana Kolomiets, Marine Arakelyan, Victor Spangenberg  
Journal of Experimental Zoology Part B: Molecular and Developmental Evolution 2024 368 - 379

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*Article*

### **Polymorphism of Microsatellite Loci in Populations of Caucasian Rock Lizards and Its Use for Assessing the Genetic Diversity of *Darevskia raddei***

D. O. Odegova,, A. A. Valyaeva,, M. S. Arakelyan, A. P. Ryskova,, V. I. Korchagin, I. A. Martirosyan  
Russian Journal of Genetics 2024 326-343

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*Article*

### **Invasive alien species of animals in Armenia**

Marine Arakelyan, Varos Petrosyan, Samvel Pipoyan, Gayane Karagyan, Tigran Ghrejyan,  
Astghik Ghazaryan, Vardan Asatryan, Marine Dallakyan, Arevik Ghrmajyan, Meri Arzumanyan,  
Mark Kalashian  
BioInvasions Records 2024 293-303

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*Article*

### **The role of the Caucasus, Carpathian, and Dinaric-Balkan regions in preserving wolf genetic diversity**

Dragana Šnjegota, Magdalena Niedziałkowska, Astrid Vik Stronen, Tomasz Borowik, Kamila Plis,  
Marine Arakelyan, Duško Ćirović, Gabriel Danila, Mihajla Djan, Astghik Ghazaryan, Zurab Gurielidze,  
Tigran Hayrapetyan, Zsolt Hegyeli, Alexandros A. Karamanlidis, Natia Kopaliani, Josip Kusak,  
Dmitry Politov, Maya Talala, Elena Tsingarska, Bogumiła Jędrzejewska  
Mammalian Biology 2023 303-315

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Article

**Status of the Dwarf Lizard (*Parvilacerta parva*) at the edge of its range in Armenia**

Marine Arakelyan, Tigran Tadevosyan, Ruzanna Petrosyan, Tigran Ghrejyan, Angin Grigoryan

Zoology in the Middle East 2023 232-242

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Article

**Evolution of parthenogenetic reproduction in Caucasian rock lizards: a review**

Marine Arakelyan, Victor Spangenberg, Varos Petrosyan, Alexey Ryskov, Oxsana Kolomiets,

Eduard Galoyan

Current Zoology 2023 128-135

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Article

**Biodiversity Conservation Problems**

George Fayvush, Karen Aghababayan, Alla Aleksanyan, Marine Arakelyan, Arsen Gasparyan,

Mark Kalashian, Lusine Margaryan, Siranush Nanagulyan

Biodiversity of Armenia 2023 283-321

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Article

**Molecular genetic characteristics of *Darevskia portschinskii* lizard populations based on microsatellite markers analysis**

Irena A. Martirosyan, Dmitrii O. Odegov, Ilaha E. Kafarova, Marine S. Arakelyan, Alexey P. Ryskov,

Vitaly I. Korchagin

Acta Herpetologica 2023 147-158

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Article

**Анализ ширины экологических ниш партеногенетических ящериц рода *Darevskia* (*Lacertidae*, *Reptilia*) с различными сценариями формирования клональных линий в популяциях**

Ф. А. Осипов, В. В. Бобров, Н. Н. Дергунова, М. С. Аракелян, В. Г. Петросян

Современная герпетология 2023 108-112

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Article

**Phylogeny and geographic distribution of rock lizards (*Lacertidae*, *Reptilia*) in Alborz mountain range**

E. S. Iryshkov, E. N. Solovyeva, M. S. Arakelyan, E. Rastegar-Pouyani, M. Moaddab, K. Milto, E. Galoyan

Современная герпетология 2023 93-101

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Article

**Fauna of Armenia**

Mark Kalashian, Karen Aghababayan, Noushig Zarikian, Bardukh Gabrielyan, Marine Arakelyan,

Astghik Ghazaryan

Biodiversity of Armenia 2023 165-282

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Article

**Application of land snail *Helix lucorum* for evaluation of genotoxicity of soil pollution**

Anzhela Sargsyan, Galina Hovhannisyan, Anna Simonyan, Marine Arakelyan, Meri Arzumanyan,

Rouben Aroutiounian

MUTATION RESEARCH - GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS 2022 503500

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Article

**Molluscs as bioindicators of tourism pressure on ecosystems of Dilijan National Park, Armenia**

M. Arzumanyan, A. Ghrmajyan, V. Muradyan, T. Tammaru, M. Arakelyan

JOURNAL OF ECOTOURISM 2022 1-12

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Article

**МОЛЕКУЛЯРНАЯ СТРУКТУРА И ПОЛИМОРФИЗМ МИКРОСАТЕЛЛИТНЫХ ЛОКУСОВ КAVKAZСКИХ СКАЛЬНЫХ ЯЩЕРИЦ *Darevskia raddei* ПОПУЛЯЦИИ “ЕРЕВАН” ИЗ АРМЕНИИ**

И. А. Мартиросян, М. С. Аракелян, А. А. Валяева, А. П. Рысков

ГЕНЕТИКА (Russian Journal of Genetics) 2022 478-480

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Article

**Parthenogenesis in *Darevskia* lizards: A rare outcome of common hybridization, not a common outcome of rare hybridization**

Susana Freitas, Anja Marie Westram, Tanja Schwande, Marine Arakelyan, Çetin Ilgaz, Yusuf Kumlutas, D. James Harris, Miguel A. Carretero, Roger K. Butlin

Evolution 2022 899-914

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Article

**Peculiarities of Thermal Biology in Two Parthenogenetic Rock Lizard Species, *Darevskia armeniaca* and *Darevskia unisexualis*, and One Bisexual Species, *Darevskia valentini* (Lacertidae, Squamata)**

R. K. Petrosyan, M.S. Arakelyan, O. D. Nikolaev, D. A. Belova, B. A. Novikov, I. B. Simis, V. A. Komarova, E. A. Galoyan

Biology Bulletin 2022 1214-1223

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Article

**Precise paternal ancestry of hybrid unisexual ZW lizards (genus *Darevskia*: Lacertidae: Squamata) revealed by Z-linked genomic markers**

Yanchukov Alexey, Tarkhnishvili David, Erdolu Meriç, MEHMET KÜRŞAT ŞAHİN, Candan Kamil,

Murtskhvaladze Marine, Gabelaia Mariam, Iankoshvili Giorgi, Barateli Natia, Ilgaz Çetin, Kumlutaş Yusuf, Matur Ferhat, Çolak Faruk, Arakelyan Marine, Galoyan Eduard

Biological Journal of the Linnean Society 2022 293-305

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Article

**First Genome of Rock Lizard *Darevskia valentini* Involved in Formation of Several Parthenogenetic Species**

Sofia Ochkalova, Vitaly Korchagin, Andrey Vergun, Avel Urin, Danil Zilov, Sergei Ryakhovsky, Anastasiya Girnyk, Irena Martirosyan, Daria V. Zhernakova, Marine Arakelyan, Felix Danielyan, Sergei Kliver, Vladimir Brukhin, Aleksey Komissarov, Alexey Ryskov

Genes 2022 1-16

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Article

**The mixed liver and kidney transcriptome dataset of *Darevskia valentini* rock lizard**

Ryakhovsky, S.S., Zhernakova, D.V., Korchagin, V.I., Vergun A.A., Girnyk A. E, Dilaya V.A.,

Arakelyan M.S., Kommissarov A.S., Ryskov A.P

BMC Research Notes 2022 1-3

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Article

**Meiotic synapsis of homeologous chromosomes and mismatch repair protein detection in the parthenogenetic rock lizard *Darevskia unisexualis***

Victor E Spangenberg, Marine Arakelyan, Eduard Galoyan, Irena Martirosyan, Alexandra Bogomazova, Elena Martynova, Marcelo De Bello Cioffi, Thomas Liehr, Ahmed Al-Rikabi, Varos Petrosyan,

Oxana Kolomiets

Molecular Reproduction and Development 2021 119-127

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*Article*

**Phylogenetics and phylogeography of red deer mtDNA lineages during the last 50 000 years in Eurasia**

Karolina Doan, Magdalena Niedziałkowska, Krzysztof Stefaniak, Maciej Sykut, Bogumila Jedrzejewska, Natalia Piotrowska, Frank Zachos, Pavel Kosintsev, Urmas Saarma, Marine Arakelyan, Nina Manaseryan, Dariusz Krasnodębski, Vadim Titov, Katerina Trantalidou, Oleksandr Kovalchuk, Alexey M. Klementiev, Irina V. Foronova, Grzegorz Lipecki, Ana Stanković, and 15 other authors

Zoological Journal of the Linnean Society 2021 1-26

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*Article*

**De novo transcriptome assembly and annotation of parthenogenetic lizard *Darevskia unisexualis* and its parental ancestors *Darevskia valentini* and *Darevskia raddei nairensis***

Sergei S. Ryakhovsky, Victoria A. Dikaya, italy I. Korchagin, Andrey A. Vergun, Lavrentii G. Danilov, Sofia D. Ochkalova, Anastasiya E. Girnyk, Daria V. Zhernakova, Marine S. Arakelyan, Vladimir B. Brukhin, Aleksey S. Komissarov, Alexey P. Ryskov

Data in Brief 2021 107685

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*Article*

**Molecular-genetic identification of *Darevskia unisexualis* × *D. valentini* triploid hybrids from sympatric populations of Armenia**

A. E. Girnyk, A. A. Vergun, M. S. Arakelyan, A. P. Ryskov

Molecular Genetics, Microbiology and Virology 2021 201-203

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*Article*

**Raccoon (*Procyon lotor*) in the Pan-Caucasus region (Russia, Azerbaijan, Georgia, Iran, and Armenia)**

Alexander P Saveljev, Elshad Askerov, Yuri Yarovenko,, Alexander Kitiashvili, Alexey Romashin, Marine Arakelyan, Nikolai Tsapko

BEITRAEGE ZUR JAGD- UND WILDFORSCHUNG 2021 223-238

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*Article*

**Genetic Variability and the Potential Range of *Darevskia rostombekowi* in Transcaucasia**

F. A. Osipov, A. A. Vergun,, M. S. Arakelyan,, R. K. Petrosyan, N. N. Dergunova,, L. A. Neymark,

V. G. Petrosyan

Biology Bulletin 2021 681-692

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*Article*

**ОСОБЕННОСТИ ТЕРМОБИОЛОГИИ ПАРТЕНОГЕНЕТИЧЕСКИХ СКАЛЬНЫХ ЯЩЕРИЦ (*DAREVSKIA ARMENIACA* И *DAREVSKIA UNISEXUALIS*) И ОБОПОЛОГО ВИДА *DAREVSKIA VALENTINI* (LACERTIDAE, SQAMATA)**

О. Д. Николаев,, Д. А. Белова, . А.Б Новиков, И. Б. Симис, Р. К. Петросян, М. С. Аракелян,

В. А. Комарова, Э. А. Галоян

*Article*

**Origin, clonal diversity, and evolution of the parthenogenetic lizard *Darevskia unisexualis***

Andrey Vergun, Anastasiya E. Girnyk, Vitaly I. Korchagin, Seraphima K. Semyenova, Marine S. Arakelyan, Felix D. Danielyan, Alexey P. Ryskov, Robert W. Murphy

BMC Genomics 2020 1-10

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*Article*

**Cytogenetic mechanisms of unisexuality in rock lizards**

Victor Spangenberg, Marine Arakelyan, Marcelo de Bello Cioffi, Thomas Liehr, Ahmed Al-Rikabi, Elena Martynova, Ilona Stepanyan, Felix Danielyan, Eduard Galoyan, Oxana Kolomiets

Scientific Reports 2020 1-14

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*Article*

**Species Distribution Models and Niche Partitioning among Unisexual *Darevskia dahli* and Its Parental Bisexual (*D. portschinskii*, *D. mixta*) Rock Lizards in the Caucasus**

Varos Petrosyan, Fedor Osipov, Vladimir Bobrov, Natalia Dergunova, Andrey Omelchenko, Alexander Varshavskiy, Felix Danielyan, Marine Arakelyan

Mathematics 2020 1-21

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*Article*

**Does reproductive mode affect sexually selected colouration? Evaluating UV-blue spots in parthenogenetic and bisexual lizards of the genus *Darevskia***

Andran Abramjan, Marine Arakelyan, Daniel Frynta

Current Zoology 2020 1-13

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*Article*

**Syntopy of two species of rock lizards (*Darevskia raddei* and *D. portschinskii*) may not lead to hybridization between them**

Eduard Galoyan, Viktoria Moskalenko, Mariam Gabelaia, David Tarkhnishvili, Victor Spangenberg, Anna Chamkina, Marine Arakelyan

Zoologischer Anzeiger 2020 43-52

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*Article*

**ПОСТРОЕНИЕ МОДЕЛЕЙ ПРОСТРАНСТВЕННОГО РАСПРЕДЕЛЕНИЯ И ЭКОЛОГИЧЕСКИХ НИШ ПАРТЕНОГЕНЕТИЧЕСКИХ И РОДИТЕЛЬСКИХ ВИДОВ РОДА *DAREVSKIA* НА ОСНОВЕ МНОГОЛЕТНИХ ДАННЫХ УЧЕТА И КЛИМАТИЧЕСКИХ, ТОПОГРАФИЧЕСКИХ И ЛАНДШАФТНЫХ ПРЕДИКТОРОВ**

Петросян В.Г., Осипов Ф.А., Бобров В.В., Дергунова Н.Н., Омельчено А.В., Даниелян Ф.Д.,

Аракелян М.С.

Информационные технологии в исследовании биоразнообразия 2020 436-439

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*Article*

**Экологическая и генетическая характеристики однополых и двуполых видов ящериц рода *Darevskia***

Осипов Ф.А., Бобров В.В., Дергунова Н.Н., Неймяк Л.А., Вергун А.А., Аракелян М.С., Петросян В.Г.

Информационные технологии в исследовании биоразнообразия 2020 418-420

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Article

**New records and geographic distribution of the sympatric zones of unisexual and bisexual rock lizards of the genus *Darevskia* in Armenia and adjacent territories**

Varos G Petrosyan, Fedor A Osipov, Vladimir V Bobrov, Natalia N Dergunova, Ivan I Kropachev, Felix D Danielyan, Marine S Arakelyan  
Biodiversity Data Journal 2020 1-46

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Article

**Genotypic similarities among the parthenogenetic *Darevskia* rock lizards with different hybrid origins**

David Tarkhnishvili, Alexey Yanchukov, Mehmet Kürşat Şahin, Mariam Gabelaia, Marine Murtskhvaladze, Eduard Galoyan, Kamil Candan, Marine Arakelyan, Giorgi Iankoshvili, Yusuf Kumlutas, Çetin Ilgaz, Ferhat Matur, Faruk Colak, Meriç Erdolu, Sofiko Kurdadze, Natia Barateli, Cort Anderson  
BMC Ecology and Evolution 2020 1-25

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Article

**Identifying priority areas for restoring mountain ungulates in the Caucasus ecoregion**

Tobias Kuemmerle, Hendrik Bluhm, Arash Ghoddousi, Marine Arakelyan, Elshad Askerov, Aurel Heidelberg, Benjamin Bleyhl, Mamikon Ghasabian, Alexander Gavashelishvili, Alexander Malkhasyan, Yuriy Yarovenko, Karen Manvelyan, Paul Weinberg, Nugzar Zazanashvili, Mahmood Soofi  
Conservation Science and Practice 2020 1-15

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Article

**From troubles to solutions: conservation of Mediterranean tortoises under global change.**

Eva Graciá, Roberto C. Rodríguez-Caro, Marcos Ferrández, Albert Martínez Silvestre, Irene Pérez-Ibarra, Rabie Amahjour, Carmen Aranda, Benelkadi Hadj, Albert Bertolero, Marta Biaggini, Fernando Esperón, Joan Budo, Vanesa Cadenas, Brahim Chargui, Claudia Corti, Francisco Bortella, Miguel Angel Esteve-Selma, Saumia Fahd, Isabel Fuente, Ana Golubović, Ana Heredia, María Victoria Jiménez-Franco, Marine Arakelyan, Daniele Marini, Julia Martínez-Fernández, Ramon Mascort, Andrea Mira-Rover, Roberto Pascual-Rico, Ana Perera, Beate Pfau, Samuel Pinya, Xavier Santos, Amalia Segura, Mohamed Jaouhar Semaha, Joaquim Soler-Massana, Jose Manuel Vidal, Andrés Giménez, M Carmen Martínez-Pastor  
Basic and Applied Herpetology 2020 5-16

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Article

**Evolution of the parthenogenetic rock lizard hybrid karyotype: Robertsonian translocation between two maternal chromosomes in *Darevskia rostombekowi***

Victor Spangenberg, Oxana Kolomiets, Ilona Stepanyan, Eduard Galoyan, Marcelo de Bello Cioffi, Elena Martynova, Irena Martirosyan, Tatiana Grishaeva, Felix Danielyan, Ahmed Al-Rikabi, Thomas Liehr, Marine Arakelyan  
Chromosoma 2020 275-283

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Article

**Winter temperature and forest cover have shaped red deer distribution in Europe and the Ural Mountains since the Late Pleistocene**

Magdalena Niedziałkowska, Karolina Doan, Marcin Gorny, Maciej Sykut, Natalia Piotrowska, Bogumila Jedrzejewska, Pawel Mackiewicz, Pavel Kosintsev, Dariusz Krasnodębski, Urmas Saarma,

Marine Arakelyan, Nina Manaseryan, Vadim Titov, Jessie Woodbridge, Grzegorz Lipecki, Alesia Arabey, Ana Stanković, + 15 other authors

Journal of Biogeography 2020 147-159

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*Article*

**Friend-or-foe? Behavioural evidence suggests interspecific discrimination leading to low probability of hybridization in two coexisting rock lizard species (Lacertidae, Darevskia)**

Galoyan Eduard, Tsellarius Elena, Arakelyan Marine

Behavioral Ecology and Sociobiology 2019 46/10

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*Article*

**Rediscovery of Chernov's skink (Ablepharus chernovi Darevsky, 1953) in Armenia**

Marine Arakelyan, Vasil Ananian, Ruzanna Petrosyan

Herpetology Notes 2019 475-477

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*Article*

**Extraordinary centromeres: differences in the meiotic chromosomes of two rock lizard species Darevskia portschinskii and Darevskia raddei**

Spangenberg V, Arakelyan M, Galoyan E, Pankin M, Petrosyan R, Stepanyan I, Grishaeva T, Danielyan F,

Kolomiets O

PeerJ 2019 e6360

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*Article*

**New records of Darevskia armeniaca (Méhely, 1909) and Darevskia valentini (Boettger, 1892) (Squamata, Sauria, Lacertidae) from Armenia and updated geographic distribution maps**

Varos G. Petrosyan, Feodor A. Osipov, Vladimir V. Bobrov, Natalia N. Dergunova, Felix D. Danielyan,

Marine S. Arakelyan

Check List 2019 21-31

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*Article*

**Application of the comet assay, micronucleus test and global DNA methylation analysis in Darevskia lizards as a sentinel organism for genotoxic monitoring of soil pollution**

Anzhela Sargsyan, Anna Simonyan, Galina Hovhannisyan, Marine Arakelyan, Rouben Aroutiounian

MUTATION RESEARCH - GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS 2019 117-124

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*Article*

**Natural history of Valentin's rock lizard (Darevskia valentini) in Armenia**

Eduard Galoyan,, Alisa Bolshakova,, Manush Abrahamyan, Ruzanna Petrosyan, Valeria Komarova,

Victor Spangenberg, Marine Arakelyan

ZOOLOGICAL RESEARCH 2019 277-292

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*Article*

**Analysis of geographical distribution of the parthenogenetic rock lizard Darevskia armeniaca and its parental species (D. mixta, D. valentini) based on ecological modelling**

Varos Petrosyan, Fedor Osipov, Vladimir Bobrov, Natalia Dergunova, Evgeny Nazarenko,

Andrey Omelchenko, Felix Danelyan, Marine Arakelyan

SALAMANDRA 2019 173-190

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*Article*

**The role of hybridisation in the origin and evolutionary persistence of vertebrate parthenogens: a case study of Darevskia lizards**

Susana N. Freitas, D. James Harris, Neftalí Siller, Marine Arakelyan, Roger K. Butlin, Miguel A. Carretero

Journal of Heredity 2019 795-808

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*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

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*Article*

**Анализ пространственного распределения зон симпатрии однополых и двуполых видов кавказских скальных ящериц рода Darevskia.**

Петросян В.Г, Осипов Ф.А, Бобров В.В, Дергунова Н.Н., Даниелян Ф.Д., Аракелян М.С.

Биологическое разнообразие Кавказа и юга России 2019 1-6

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*Article*

**Parthenogenetic Darevskia lizards mate frequently if they have the chance: a quantitative analysis of copulation marks in a sympatric zone**

Miguel A. Carretero, Enrique García-Muñoz, Elena Argaña, Susana Freitas, Claudia Corti,

Marine Arakelyan, Neftalí Sillerod

Journal of Natural History 2018 405-413

<https://doi.org/10.1080/00222933.2018.1435832>

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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

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*Article*

**DNA damage and micronuclei in parthenogenetic and bisexual Darevskia rock lizards from the areas with different levels of soil pollution**

Anna Simonyan, Galina Hovhannisyana, Anzhela Sargsyan, Marine Arakelyan, Seyran Minasyan,

Rouben Aroutiounian

Ecotoxicology and Environmental Safety 2018 13-18

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*Article*

**ИЗУЧЕНИЕ ГИБРИДНЫХ ТРИПЛОИДНЫХ САМЦОВ СКАЛЬНЫХ ЯЩЕРИЦ РОДА DAREVSKIA В СИМПАТРИЧЕСКОЙ ПОПУЛЯЦИИ АРМЕНИИ**

Ф.Д. ДАНИЕЛЯН, М.С. АРАКЕЛЯН, В.Е. СПАНГЕНБЕРГ

Биологический журнал Армении 2018 64-71

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*Article*

**Assessing niche overlap between domestic and threatened wild sheep to identify conservation priority areas**

Benjamin Bleyhl, Marine Arakelyan, Elshad Askerov, Hendrik Bluhm, Alexander Gavashelishvili,

Mamikon Ghasabian, Arash Ghoddousi, Aurel Heidelberg, Igor Khorozyan, Alexander Malkhasyan, Karen Manvelyan, Tobias Kuemmerle, Mohammadreza Masoud, Ehsan M. Moqanaki, Volker C. Radeloff, Mahmood Soofi, Paul Weinberg, Nugzar Zazanashvili  
Diversity and Distributions 2018 129-141

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*Article*

**ECOMORPHOLOGY OF TORTOISES (*Testudo graeca* COMPLEX) FROM THE ARAKS RIVER VALLEY**

Marine Arakelyan, Oğuz Türkozan, Nasim Hezaveh, James F. Parham

Russian Journal of Herpetology 2018 245-252

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*Article*

**Multiple interspecific hybridization and microsatellite mutations provide clonal diversity in the parthenogenetic rock lizard *Darevskia armeniaca***

Anastasiya E. Girnyk, Andrey A. Vergun, Seraphima K. Semyenova, Andrei S. Guliaev,

Marine S. Arakelyan, Felix D. Danielyan, Irena A. Martirosyan, Robert W. Murphy, Alexey P. Ryskov

BMC Genomics 2018 1-12

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*Article*

**Short term spatial structure of a lizard (*Darevskia* sp.) community in Armenia**

Neftalí Sillero, Elena Argaña, Susana Freitas, Enrique García-Muñoz, Marine Arakelyan, Claudia Corti,

Miguel A. Carretero

Acta Herpetologica 2018 155-163

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*Article*

**Reticulate Evolution of the Rock Lizards: Meiotic Chromosome Dynamics and Spermatogenesis in Diploid and Triploid Males of the Genus *Darevskia***

Victor Spangenberg, Marine Arakelyan, Eduard Galoyan, Sergey Matveevsky, Ruzanna Petrosyan,

Yuri Bogdanov, Felix Danielyan, Oxana Kolomiets

Genes 2017 1-15

<http://www.mdpi.com/journal/genes>

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*Article*

**НЕКОТОРЫЕ ФЕНОТИПИЧЕСКИЕ ОСОБЕННОСТИ КВАКШ (AMPHIBIA: HYLIDAE) АРМЕНИИ**

М.В. АРЗУМАНЯН, И.Э. Степанян, М.С. АРАКЕЛЯН

Հայաստանի կենսաբանական հանդես 2017 70-75

<http://www.flib.sci.am/eng/Biology/>

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*Article*

**INFESTATION OF DICE SNAKE *NATRIX TESSELLATA* (LAURENTI, 1768) BY HELMINTHS IN ARMENIA**

N.H. SARGSYAN, M.S. ARAKELYAN, F.D. DANIELYAN

Biological Journal of Armenia 2016 89-91

<http://www.flib.sci.am/eng/Biology/>

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**Cryptic diversity and unexpected evolutionary patterns in the meadow lizard, *Darevskia praticola* (Eversmann, 1834)**

Susana Freitas, Anna Vavakou, Marine Arakelyan, Sergei V. Drovetski, Jelka Crnobrnja-isailović,

Artem A. Kidov, Dan Cogălniceanu, Claudia Corti, Petros Lymberakis, D. James Harris,

Miguel A. Carretero

Systematics and Biodiversity 2016 184-197

<http://www.tandfonline.com/loi/tsab20>

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**Genetic Differentiation among Natural Populations of the Lizard Complex *Darevskia raddei* as Inferred from Genome Microsatellite Marking**

A. V. Omelchenko, A. E. Girnyk, F. A. Osipov, A. A. Vergun, V. G. Petrosyan, F. D. Danielyan, M. S. Arakelyan, A. P. Ryskov

Russian Journal of Genetics 2016 231

<http://www.springer.com/biomed/human+genetics/journal/11177>

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**ГЕНЕТИЧЕСКАЯ ДИФФЕРЕНЦИАЦИЯ ПРИРОДНЫХ ПОПУЛЯЦИЙ ЯЩЕРИЦ КОМПЛЕКСА *Darevskia raddei* ПО ДАННЫМ МИКРОСАТЕЛЛИТНОГО МАРКИРОВАНИЯ ГЕНОМОВ**

A. B. Омельченко, А. Е. Гирнык, Ф. А. Осипов, А. А. Вергун, В. Г. Петросян, Ф. Д. Даниелян, М. С. Аракелян, А. П. Рысков

ГЕНЕТИКА (Russian Journal of Genetics) 2016 260-264

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*Article*

**Parthenogenesis through the Ice Ages: a biogeographic analysis of Caucasian rock lizards (genus *Darevskia*)**

Susana Freitas, Sara Rocha, João Campos, Faraham Ahmadzadeh, Claudia Corti, Neftali Sillero, Marine Arakelyan, D. James Harris, Miguel A. Carretero

Molecular Phylogenetics and Evolution 2016 117-127

<http://www.journals.elsevier.com/molecular-phylogenetics-and-evolution>

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*Monograph*

**Հայաստանի Հանրապետության և Լեռնային Ղարաբաղի երկկենցաղները ու սողունները**  
Դանիելյան Ֆ.Դ., Առաքելյան Մ.Ս.

2016 200

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*Monograph*

**Հայաստանի հանրապետության "Էմերալդ ցանցը"**

Գ. Ֆայվուշ, Ս. Բալոյան, Մ. Առաքելյան, Կ. Աղաբաբյան, Ա. Ալեքսանյան, Ա. Ասլանյան, Ա. Ղազարյան, Մ. Հովհաննիսյան, Մ. Քալաշյան, Ս. Նահապետյան

2016 144

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*Article*

**АНАЛИЗ ПОВРЕЖДЕНИЙ ДНК У ЯЩЕРИЦ *DAREVSKIA RADDEI*, ОБИТАЮЩИХ В ЗОНАХ С РАЗЛИЧНЫМ УРОВНЕМ ЗАГРЯЗНЕНИЯ ПОЧВ, МЕТОДОМ ДНК-КОМЕТ**

А.Э. СИМОНЯН, А.Л. ГЕВОРКЯН, С.Г. МИНАСЯН, А.А. САРГСЯН, М.С. АРАКЕЛЯН

Հայաստանի կենսաբանական հանդես 2015 65-67

<http://www.flib.sci.am/eng/Biology/>

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*Article*

**BLOOD PARASITES MORPHOTYPES OF ROCK LIZARDS OF ARMENIA**

T. K. HARUTYUNYAN, F. D. DANIELYAN, M. S. ARAKELYAN

*Article*

**СРАВНЕНИЕ ВРЕМЕННОЙ СОСТАВЛЯЮЩЕЙ ЭКОЛОГИЧЕСКИХ НИШ СИНТОПИЧНЫХ ВИДОВ СКАЛЬНЫХ ЯЩЕРИЦ АРМЕНИИ**

М. Абраамян, Р. Петросян, М. Аракелян

ԵՊՀ ՈԻԳԸ գիտական հոդվածների ժողովածու 2015 72-74

<http://www.ysu.am/sss/hy>

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*Article*

**SEASONAL AND DAILY ACTIVITIES OF TWO SYNTOPIC PARTHENOGENETIC LIZARDS OF GENUS DAREVSKIA**

M. R. ABRAHAMYAN, R. K. PETROSYAN, Ed. A. GALOYAN, F. D. DANIELYAN, M. S. ARAKELYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2014 39-42

<http://www.ysu.am/science/hy/journals>

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*Article*

**ԷԿՈԼՈԳԻԱԿԱՆ ԳՈՐԾՈՆՆԵՐԻ ԱՉԴԵՅՈՒԹՅՈՒՆԸ ԺԱՅՈՒՅԻՆ ՍՈՂԵՍՆԵՐԻ ՄԱԿԱԲՈՒԾԱՅԻՆ ՎԱՐԱԿՎԱԾՈՒԹՅԱՆ ՎՐԱ**

Թ.Կ. ՀԱՐՈՒԹՅՈՒՆՅԱՆ, Ռ.Կ. ՊԵՏՐՈՍՅԱՆ, Ֆ.Դ. ԴԱՆԻԵԼՅԱՆ, Մ.Ս. ԱՌԱԶԵԼՅԱՆ

Հայաստանի կենսաբանական հանդես 2013 130-135

<http://www.flib.sci.am/eng/Biology/>

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**A skeletochronological study of parthenogenetic lizards of genus Darevskia from Turkey**

Arakelyan Marine, Petrosyan Ruzanna, Çetin Ilgaz, Yusuf Kumlutaş, SalihHakan Durmuş, Yahya Tayhan

Acta Herpetologica 2013 99-104

<http://www.fupress.net/index.php/ah>

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*Conference*

**PATTERN OF COEXISTING OF ENDANGERED PARTHENOGENETIC SPECIES Darevskia rostombekowi WITH SYNTOPIC Darevskia SPECIES**

Ruzanna PETROSYAN, Razmik SARGSYAN, Marine ARAKELYAN

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*Conference*

**PARTHENOGENETIC FEMALES MATE IF MALES ARE AROUND. AN ANALYSIS OF COPULATION MARKS IN A Darevskia MIXED COMMUNITY**

Miguel A. CARRETERO, Enrique GARCÍA-MUÑOZ, Elena ARGANA, Susana FREITAS, Claudia CORTI,

Marine ARAKELYAN, Neftalí SILLERO

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*Conference*

**Comparative analysis of two close related forms of fizard Darevskia "raddei"and D, "nairensis"**

Petrosyan Ruzanna, Arakelyan Marine

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*Conference*

**Особенности конкурентного синапсиса гомеологических хромосом в мейозе приводят к тератозооспермии у триплоидных гибридов Армянских скальных ящериц**

Спангенберг В.Е, Аракелян М.С., Даниелян Ф.Д, Матвеевский С.Н, Петросян Р. К, Галоян Э.А,

Коломиец О.Л

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*Conference*

**Do parthenogenetic lizards prefer sex when possible? Ecological, behavioural and cytogenetic features of complex population comprising of two parthenogenetic, one bisexual species and their hybrids of rock lizards (*Darevskia*, ZAVRIA) in Armenia**

Galoyan E.A, Arakelyan M.S, Matveevsky S.N, Ruzanna P., Abrahamyan M, Kolomiets O.L.,

Spangenberg V.E

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*Conference*

**Морфологическое и фенотипическое разнообразие у *Rana macrocnemis* (Boulenger, 1885) из горных популяций северной и центральной Армении.**

М. В. Арзуманян, И. Э. Степанян, М. С. Аракелян

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*Conference*

**Изменчивость локационных сигналов нетопыря карлика на территории Армении**

В. Арутюнян, М. Аракелян

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*Conference*

**Baseline surveys of biodiversity of vertebrate in vicinity of Hors and Taratumb communities in Vayots Dzor**

М. Arakelyan, A. Malkhasyan, K. Manvelyan

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*Conference*

**МЕЖПОПУЛЯЦИОННАЯ ИЗМЕНЧИВОСТЬ ПО РАЗМЕРАМ ТЕЛА И ЭРИТРОЦИТОВ У ОЗЕРНОЙ ЛЯГУШКИ, *PELOPHYLAX RIDIBUNDUS* (PALLAS, 1771) В АРМЕНИИ**

М.В. Арзуманян, А.И. Варданян, И.Э. Степанян, М.С. Аракелян

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*Conference*

**НОВЫЕ ДАННЫЕ ПО РАЗМЕРАМ ТЕЛА И ЭРИТРОЦИТОВ СИРИЙСКОЙ ЧЕСНОЧНИЦЫ (*PELOVATES SYRIACUS* BOETTGER, 1889) ИЗ АРАРАТСКОЙ ДОЛИНЫ АРМЕНИИ**

Петросян Р.П., Арзуманян М.В., Степанян И.Э., Аракелян М.С.

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*Conference*

**ИЗМЕНЧИВОСТЬ МОРФОМЕТРИЧЕСКИХ ПРИЗНАКОВ РАКОВИН НАЗЕМНОГО МОЛЛЮСКА *PARAEOPSIS NONENACKERI* (PFEIFFER, 1848)**

М. В. Арзуманян, Э. А. Снегин, М. С. Аракелян

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*Conference*

**THE REPRODUCTIVE FEATURES OF RARE PARTENOGENETIC SPECIES *DAREVSKIA ROSTOMBEKOWI***

Petrosyan R.K., Arakelyan M.S.

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*Conference*

**CONSERVATION MEASURES FOR THE CRITICALLY ENDANGERED SPECIES OF LIZARD IN ARMENIA (*EREMIS ARGUTA TRANSCAUCASICA*)**

Arakelyan M.S., Petrosyan R.K.

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*Conference*

«ԿԵՆՍԱԲԱՆՈՒԹՅՈՒՆ» ԱՌԱՐԿԱՅԻՑ ՍՈՎՈՐՈՂՆԵՐԻ ՈՒՍՈՒՄՆԱԿԱՆ ԳՈՐԾՈՒԼԵՆՈՒԹՅԱՆ  
ԱՐԴՅՈՒՆՔՆԵՐԻ ԳՆԱՀԱՏՄԱՆ ՕՐԻՆԱԿԵԼԻ ԶԱՓԱՆԻՇՆԵՐԸ  
Կարապետյան Ա.Ֆ., Առաքելյան Մ.Ս., Ադամյան Ռ.Գ.

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*Conference*

**Effectiveness of protected area in example of Dilijan national park for terrestrial molluscs diversity and richness in Armenia**

Arzuamnayan M., Arakelyan M.

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*Conference*

**Variability of the morphometric characteristics in the population of marsh frog *Pelophylax ridibundus* from Ararat valley (Armenia)**

Arzumanyan M. V., Stepanyan I. E., Hayrapetyan T. A., Arakelyan M. S.

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*Conference*

**Total disturbance in chromosome synapsis and DSB repair do not arrest meiosis in triploid hybrid males of rock lizards**

Spangenberg V. E., Arakelyan M. S., Galoyan E. A., Danielyan F. D., Kolomiets O. L.

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*Conference*

**Development of Standardized Biodiversity Monitoring Programs for Two Protected Areas in Armenia**

Ghazaryan A., Hayrapetyan T., Aslanyan A., Papov G., Arakelyan M.

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*Conference*

**The integrated database of geographical distribution of *Darevskia* rock lizard species in the Caucasus and Asia Minor.**

Petrosyan V. G., Arakelyan M.S., Osipov F.A., Bobrov V.V., Nazarenko E.A., Dergunova N., Danielyan F.

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*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

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*Conference*

**Моделирование распределения партеногенетического вида *Darevskia rostombekowi* (darevsky, 1957) на территории Армении: генетические и экологические особенности популяций**

Осипов Ф.А., Неймарк Л.А., Вергун А.А., Аракелян М.С., Петросян В.Г.

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*Conference*

**Дицентрические хромосомы скальных ящериц рода *Darevskia***

Спангенберг В.Е., Аракелян М.С., Лелекова М.А., Коломиец О.Л.

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*Conference*

**Сходства и различия экологических ниш партеногенетических видов скальных ящериц *Darevskia dahli*, *D. armeniaca* и их родительских видов *D. valentini*, *D. portschinskii* и *D. mixta* на основе анализа комплекса моделей пространственного распределения**

Петросян В.Г., Осипов Ф.А., Бобров В.В., Даниелян Ф.Д., Аракелян М.С.

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*Conference*

**Картирование потенциальных ареалов и сравнительный анализ экологических ниш скальных ящериц *Darevskia dahli* и родительских видов (*D. portschinskii* и *D. mixta*) на основе данных находок и комплекса моделей пространственного распределения**  
Петросян В.Г., Осипов Ф.А., Бобров В.В., Неймарк Л.А., Аракелян М.С.

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*Conference*

**APPLICATION OF BIOINDICATORS FOR ASSESSMENT OF HEAVY METALS' GENETIC AND EPIGENETIC EFFECTS IN DIFFERENT REGIONS OF ARMENIA**  
Sargsyan A, Hovhannisyan G., Simonyan A., Arakelyan M., Minasyan S., Aroutiounian R.

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