

Vahid Akmal

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Personal Details:

Marital Status: Married

Date of Birth: 1975/8/24

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Education:

- 1996 -1999 Shiraz University. BSc in general biology.
- 2002- 2004 Razi University. MSc in Zoology.
- 2006- 2011 Tehran University. PhD in Zoology.

Work experience:

- DNA Extraction, Gel Electrophoresis, PCR, Chromosomal Preparation, Able to culture mealworms.

Research interests:

- Morphological and Molecular Systematic, karyology, Biogeography and Phylogeny of the Iranian Plateau fauna with special reference to Chiroptera and subterranean animals.

Skills:

- Able to operate efficiently PC computer.
- Familiar with SPSS, PHYLIP, PAUP, TREEVIEW, NETWORK, PAST, SYSTAT, BIOEDITE, NCPA, JMODEL TEST, ARLEQUIN and DNASP.

Publications:

Books:

- 1- Hossein Farasat, Vahid Akmal, Mozafar Sharifi. 2016. Conservation biology and research needs of the endangered Kaiser Newt: An interdisciplinary study of the endangered Kaiser's Mountain Newt with the aim of protecting the species and its habit. LAP LAMBERT Academic Publishing Pp: 212. ISBN-10 : 3659895539
- 2- **Vahid Akmal** et al., 2014. Approved Terms Zoology, the Academy of Persian Language and Literature.
- 3- Scientific editor of Persian translation version of Integrated principles of Zoology, 15th edition. Hickman et al, 2015. Iranian Biology Society.

Projects:

- 1- Mozafar Sharifi, Somaye Vaissi and Vahid Akmal. Landscape genetics and least-cost path analysis in the endangered yellow spotted newt. 2019. Iran national Science foundation.
- 2- Vahid Akmal, Investigation on cave dwelling bats in western Iran (Kurdistan, Kermanshah and Illam provinces) with emphasis on functional roles of caves on conservation biology of bats. 2017. Iran national Science foundation.

- 3- Vahid Akmalı, Taxonomy and geographic distribution of small mouse tailed bat (*Rhinopoma muscatellum*) In Iran. 2013. Razi University.
- 4- Mozafar Sharifi, and Vahid Akmalı. Conservation biology of two endangered mountain newts (*Neurergus kaiseri* and *N. microspilotus*). 2016. Iran national Science foundation.
- 5- Vahid Akmalı, 2021. The latest conservation status of the indicator species in wetlands of Fars province.
- 6- Vahid Akmalı, 2024. Biodiversity assessment of bats in the western part of Iran using biomarker and DNA barcoding techniques. DOE.

Peer reviewed papers

- 1- Rashidi Ilzoleh R, Akmalı V. 2025. Influence of dietary composition on the nutritional profile and feed conversion efficiency of *Tenebrio molitor*. PLoS One 20(7): e0325262. <https://doi.org/10.1371/journal.pone.0325262>
- 2- Rashidi Ilzoleh, R., Akmalı, V. 2025. Comparative Impact of Seven Bran Diets on the Growth, Development and Survival Rate of *Tenebrio molitor* Linnaeus 1758 (Coleoptera: Tenebrionidae) Larvae. Iran J Sci. <https://doi.org/10.1007/s40995-025-01885-z>.
- 3- Akmalı V. and Rashidi Ilzoleh R. 2024. Bioterrorism: An advanced threat in the contemporary age. Iranian Journal of Biology; 8:70-80. (In Persian).
- 4- Fahimeh Saberi, Ahmad Gharzi, Ashraf Jazayeri, Vahid Akmalı, Khosrow Chehri, Naser Karimi, Nasrin Babajani, Muhammad Rizwan, Elahe Baratalipour. 2025. Eco-friendly synthesis and multifunctional evaluation of silver nanoparticles using *Boleophthalmus dussumieri* mucus: Antibacterial, anticancer, and predictive modeling applications, Journal of Drug Delivery Science and Technology, 108, 106843. <https://doi.org/10.1016/j.jddst.2025.106843>.
- 5- Mamaghani-Shishvan M, **Akmalı V**, Fišer C, EsmaeiliRineh S. 2024. Two New Species of Stygobiotic Amphipod *Niphargus* (Amphipoda: Niphargidae) and their Phylogenetic Relationship with Other Congeners from Iran. Zool Stud. 4;63:e23. doi: 10.6620/ZS.2024.63-23. PMID: 39713789; PMCID: PMC11659820.
- 6- Esmaeili, M., **Akmalı, V.** & Karami, P. (2025) Assisted colonization of the near-eastern fire salamander (*Salamandra atra*) in Iran: distribution modeling and landscape analysis. Int. J. Environ. Sci. Technol. 22, 4445–4462. <https://doi.org/10.1007/s13762-024-06135-0>
- 7- Mamaghani-Shishvan, M., Esmaeili-Rineh, S., **Akmalı, V.**, Fišer, C. 2024. A contribution to the knowledge of the genus *Niphargus* (Arthropoda: Crustacea: Amphipoda) in northwestern Iran. Zoologischer Anzeiger, 312, 113-123.
- 8- Rashidi Ilzoleh, R., Akmalı, V. (2023). Cannibalistic behavior of the yellow mealworm (*Tenebrio molitor* Linnaeus, 1758) under laboratory condition. Applied Biology, 36(2), 62-80. doi: 10.22051/jab.2023.41414.1506
- 9- Saberii F, Gharzi A, Jazayeri A, Akmalı V, Chehri K. 2023. An introduction to the comparison shape of some cranial structures in *Boleophthalmus dussumieri* and *Periophthalmus waltoni* (Teleostei: Oxudercidae) in the Persian Gulf: an exploratory analysis with micro-CT scanning. Frontiers in Biomedical Technologies. <https://doi.org/10.18502/fbt.v1i1.14510>
- 10- Malekpourfard, Z and **Akmalı, V** (2023) Bats of Guilan, northern Iran: a review and uncovering novel discoveries, with comments on two key cave roosts. *Iranian Journal of Animal Biosystematics*, **19**(2), 141-154.
- 11- **Akmalı, V**, Abedini, S and Fard, ZM (2022) Bat fauna and conservation assessment of Kurdistan caves, Iran. *Subterranean Biology* **42**, 79-95.
- 12- Saberii F, Gharzi A, Jazayeri A, **Akmalı V**, Chehri K. Karyological analysis of two species of mudskippers (Teleostei: Gobioidae: Oxudercidae) in the Musa estuary, Persian Gulf, Iran. IJFS 2023; 22 (2) :368-383 URL: <http://ijfro.ir/article-1-5213-fa.html>
- 13- Saberi, F., Gharzi, A., Jazayeri, A., **Akmalı, V.**, & Chehri, K. (2023). Investigation of reproductive indicators, along with growth pattern and age determination of *Boleophthalmus dussumieri* in Musa estuary, Khuzestan province. Journal of Animal Environment, 15(1), 201-208. doi: 10.22034/AEJ.2022.343758.2813

- 14- **Akmali, V.**, 2022. Decoding Innate Immune System in Bats. *Nāme-ye-Oloom-e Pāye*. 6: 89-102.
- 15- Saberi F, Gharzi A, Jazayeri A, **Akmali V**, Chehri K. 2022. Study of the Morphological Characteristics of Walton's Mudskipper (Gobioidae: Oxudercidae) in Musa Estuary, Northwestern Persian Gulf, Iran". *Acta Scientific Veterinary Sciences* 4.11 (2022): 13-22.
- 16- **Akmali, V.**, & Esmaeili, M. (2022). Distribution modeling and habitat cores connections of Muscat mouse-tailed bat, *Rhinopoma muscatellum* Thomas, 1903 (Chiroptera: Rhinopomatidae) in Iran. *Biodiversity and Animal Taxonomy*, 1(1), 86-98. doi: 10.22126/jbat.2022.2085
- 17- Saberi, F., Gharzi, A., Jazayeri, A., **Akmali, V.**, & Chehri, K. (2022). Comparison of reproductive indices under the influence of species and season in *Periophthalmus waltoni* and *Boleophthalmus dussumieri* (Teleostei: Mudskipper) living in Khor Ghanam, Khuzestan province, Iran. *Biodiversity and Animal Taxonomy*, 2(1), 164-175. doi: 10.22126/jbat.2022.7961.1021
- 18- Shahmohamadi, M., **Akmali, V.**, & Karami, P. (2022). Assessing distribution range and suitable habitat patches in the greater mouse-tailed bat *Rhinopoma microphyllum* (Brünnich 1782) (Chiroptera: Rhinopomatidae) using MaxEnt in Iran. *Journal of Animal Research (Iranian Journal of Biology)*, 35(4), 310-325.
- 19- Saberi, F., Gharzi, A., Jazayeri, A., **Akmali, V.**, & Chehri, K. (2022). A Histological Study of the Skin of the Dorsal and Ventral Areas of the Flounder *Boleophthalmus dussumieri* (Teleostei: Oxudercidae) in Khor Musa (Northwest of the Persian Gulf). *Taxonomy and Biosystematics*, 14(51), 25-34. doi: 10.22108/tbj.2022.133463.1198
- 20- Bagherfard, S., Najafi, N., Gharzi, A. **Akmali, V.** Lack of intraspecific variations of the mitochondrial cytochrome b gene in the greater mouse-tailed bat *Rhinopoma microphyllum* (Chiroptera: Rhinopomatidae) in Iran. *Genetica* 149, 37–45 (2021). <https://doi.org/10.1007/s10709-020-00109-z>
- 21- Kafaie, S., Karami, P., Mehdizadeh, R. **Akmali, V.** 2021. Relationship between niche breadth and range shifts of *Rhinopoma muscatellum* (Chiroptera: Rhinopomatidae) in climate change scenarios in arid and semiarid mountainous region of Iran. *J. Mt. Sci.* 18, 2357–2376 (2021). <https://doi.org/10.1007/s11629-020-5983-9>
- 22- Elham Kazemirad , Alireza Latifi , Iraj Mobedi , **Vahid Akmali** , Hamed Mirjalali , Gholamreza Mowlav. 2020 Helminth Parasites of Bats (Chiroptera: Rhinopomatidae Bonaparte, 1838) from the Persian Gulf Coastal Area. *Journal of Medical Microbiology and Infectious Diseases*, 8 (3): 114 to 118.
- 23- **Akmali V.** 2020. Bats, viruses, emerging diseases and humans. *Iranian Journal of Biology*. 4(7); 177-192.
- 24- Kafaie S., Sharifi M. **Akmali V.** 2020. Population genetic structure and phylogeography of the small mouse-tailed bat, *Rhinopoma muscatellum* Thomas, 1903 (Chiroptera: Rhinopomatidae) in Iran inferred from mitochondrial DNA", *Acta Chiropterologica*, Vol. 22, No. 1, PP. 29_40, 2020.
- 25- Kafaie S., **Akmali V.**, Sharifi M. 2020. Using the Ensemble Modeling Approach to Predict the Potential Distribution of the Muscat Mouse-Tailed Bat, *Rhinopoma muscatellum* (Chiroptera: Rhinopomatidae), in Iran", *Iranian Journal of Science and Technology A: Science*, Vol. 45, PP. 1_12, 2020.
- 26- Mehdizadeh R., **Akmali V.**, Sharifi M. 2020. "Population genetic structure and phylogeography of the greater horseshoe bat (*Rhinolophus ferrumequinum*) along Alborz and Zagros Mts. in Iran", *Mitochondrial DNA Part A.*, 31: 87-97.
- 27- Najafi N., Sharifi M., **Akmali V.** 2019. New distributional records of the Mediterranean horseshoe bat *Rhinolophus euryale* (Chiroptera: Rhinolophidae) in Iran. *Acta Zoologica Bulgarica*. 71(2): 183-188.
- 28- **Vahid Akmali**, Saeed Shahabi, Maja Zgamaister. 2019. Bats of Tadovan Cave in southern Iran: their occurrence in the cave, and conservation issues. *Cave and Karst Science*. 46 (2): 1-8.
- 29- Tayebe Salehi, **Vahid Akmali**, Mozafar Sharifi. 2019. Population genetic structure of the endangered yellow spotted mountain newt (*Neurergus derjugini*: Amphibia Caudata) inferred from mitochondrial DNA sequences. *Herpetological Journal*. 29: 37-47.
- 30- **Akmali, V.** Abbasian, M. Parsatabar, H. Malekpour Fard Z. 2019. Distribution and new records

- of cave-dwelling bats in the Central Zagros Mountains, Lorestan province, Iran. *Iranian Journal of Animal Biosystematic*. 15 (2): 1-14.
- 31- Afroosheh M, Dennis Rödder Peter Mikulicek, **Vahid Akmali**, Somaye Vaissi, Jürgen Fleck, Willi Schneider, Mozafar Sharifi. 2019 Mitochondrial DNA variation and Quaternary range dynamics in the endangered Yellow Spotted Mountain Newt, *Neurergus derjugini* (Caudata, Salamandridae). *Journal of Zoological Systematics and Evolutionary Research*. 57. DOI: 10.1111/jzs.12275.
 - 32- Shahabi S., Sharifi M., **Akmali V.** 2019. Potential geographic distribution and habitat suitability of the Greater horseshoe bat, *Rhinolophus ferrumequinum* (Chiroptera: Rhinolophidae) in Iran. *Journal of Wildlife and Biodiversity*. 3 (2): 40-51.
 - 33- Moradi, F. Vaissi, S. **Akmali, V.** 2019. Impacts of temperature, water level and density on cannibalism of larval *Bufo variabilis* (Pallas, 1769). *Journal of Animal researches*. 32(1); 1-11.
 - 34- Shahabi S., Sharifi M., **Akmali V.** 2019. Echolocation call frequency and mitochondrial control region variation in the closely related bat species of the genus *Rhinolophus* (Chiroptera: Rhinolophidae) occurring in Iran: implications for taxonomy and intraspecific phylogeny. *Mammal Research*, <https://doi.org/10.1007/s13364-019-00417-6>.
 - 35- Najafi N., Sharifi M., **Akmali V.** 2018. A review of *Rhinolophus mehelyi* in Iran with new distributional records. *Iranian Journal of Animal Biosystematics (IJAB)*. 14(1): 39-50.
 - 36- Somaye Vaissi, Hossein Farassat, **Vahid Akmali**, Mozafar Sharifi. 2018. Consistency of coloration pattern and applicability of photo identification method as a tool to identify individuals of the kaiser's mountain newt, *Neurergus kaiseri*. *Russian Journal of Herpetology*. 25 (4): 311-321.
 - 37- Mehdizadeh R., **Akmali V.**, Sharifi M. 2018. Mitochondrial DNA marker (D-loop) reveals high genetic diversity but low population structure in the pale bent-wing bat (*Miniopterus pallidus*) in Iran. *Mitochondrial DNA Part A*. <https://doi.org/10.1080/24701394.2018.1538365>
 - 38- Najafi N., **Akmali V.**, Sharifi M. 2018. Historical explanation of genetic variation in the Mediterranean horseshoe bat *Rhinolophus euryale* (Chiroptera: Rhinolophidae) inferred from mitochondrial cytochrome-b and D-loop genes in Iran. *Mitochondrial DNA Part A*. <https://doi.org/10.1080/24701394.2018.1463375>.
 - 39- Esmaeili-Rineh, S. Mohammad Niakan, A. and **Akmali V.** 2018. *Niphargus sarii* sp. n., a new subterranean niphargid Crustacea: Amphipoda) from Iran based on molecular and morphological characters. *Acta Zoologica Academiae Scientiarum Hungaricae*. 64(2): 113-132.
 - 40- **Vahid Akmali**, Somayeh Esmaeili Rineh, Zeynab Karvand. 2017. Taxonomic status of *Rhinopoma muscatellum* (Chiroptera: Rhinopomatidae) in Iran using morphological characters. *Taxonomy and Biosystematics*. 30: 31-50.
 - 41- Saeed Shahabi, **Vahid Akmali**, and Mozafar Sharifi. 2017. Taxonomic Evaluation of the Greater Horseshoe Bat *Rhinolophus ferrumequinum* (Chiroptera: Rhinolophidae) in Iran Inferred from the Mitochondrial D-Loop Gene. *Zoological Science*, 34(4):361-367.
 - 42- Shahabi S., **Akmali V.**, Sharifi M. 2017. Distribution and new records of cave dwelling bats from Fars province in south west of Iran. *Species* 18(59), 91-116.
 - 43- Saeed Shahabi, **Vahid Akmali**, and Mozafar Sharifi. 2017. Taxonomic Evaluation of the Greater Horseshoe Bat *Rhinolophus ferrumequinum* (Chiroptera: Rhinolophidae) in Iran Inferred from the Mitochondrial D-Loop Gene. *Zoological Science*, 34(4):361-367.
 - 44- **Vahid Akmali**. 2017. Phylogeny of the mouse-tailed bats genus *Rhinopoma* (Family: Rhinopomatidae) in Iran based on mitochondrial D-loop gene. *Journal of Animal Environment*. 9 (3). 65-72.
 - 45- Mozafar Sharifi, Peyman Karami, **Vahid Akmali**, Mohadeseh Afroosheh and Somaye Vaissi. 2017. Modeling Geographic Distribution for the Endangered Yellow Spotted Mountain Newt, *Neurergus microspilotus* (Amphibia: Salamandridae) in Iran and Iraq. *Herpetological Conservation and Biology* 12(2):488–497.
 - 46- Farasat H. **Akmali V.** and Sharifi M. (2016). Population Genetic Structure of the Endangered Kaiser's Mountain Newt, *Neurergus kaiseri* (Amphibia: Salamandridae). *PLoS ONE* 11(2):e0149596.doi:10.1371/journal.pone.0149596
 - 47- Mohadeseh Afroosheh, **Vahid Akmali**, Somayeh Esmaeili-Rineh, and Mozafar Sharifi. (2016).

On the distribution, abundance and conservation status of the endangered yellow spotted mountain newt *Neurergus microspilotus* (caudata: salamandridae) in western Iran. *Herpetological Conservation and Biology* 11(1):52–60.

- 48- Somayeh Esmaeili-Rineh, Firoozeh Heidari, Cene Fišer & **Vahid Akmal**i (2016). Description of new endemic species of the genus *Niphargus* Schödte, 1849 (Amphipoda: Niphargidae) from a karst spring in Zagros Mountains in Iran. *Zootaxa*, 4126 (3): 338–350.
- 49- Somayeh Esmaeili-Rineh, **Vahid Akmal**i, Farajollah Fathipour, Nastaran Heidari and Nasrullah Rastegar-Pouyani. (2016). New distribution records of cave-dwelling gekkonid lizards (Sauria, Gekkonidae and Phyllodactylidae) in the Zagros Mountains of Iran. *Subterranean Biology* 18: 39–47.
- 50- Farajollah Fathipour, **Vahid Akmal**i and Mozafar Sharifi. (2016). Distribution of cavernicolous bat fauna in Ilam province, western and southwestern of the Iranian plateau. *Iranian Journal of Animal Biosystematic*.
- 51- **Akmal**i **Vahid**, Mehdizadeh R, Chaghamirza K, Moradi M and Sharifi M. (2015). Taxonomic evaluation of the bent-winged bat (*Miniopterus*) populations occurring in Iran inferred from mitochondrial cytochrome- *b* sequences. *Mammalia* 2015; 79(4): 449–455.
- 52- Sharifi M, **Akmal**i **V**, Fathinia B, Veisi S and Esmaeili-Rineh S. (2014). Record of predation on the bat *Rhinopoma microphyllum* (Chiroptera: Rhinopomatidae) by the *Spalerosophis microlepis* (Reptilia: Colubridae), in western Iran. *Galemys: Spanish Journal of Mammalogy*, 26: 114-118.
- 53- Javanbakht H, Sharifi M, **Akmal**i **V**, Ghaderi H and Salehzadeh A. (2014). Variation Pattern of Sperm Competition in Two Bats, *Pipistrellus kuhlii* and *Hypsugo savii* (Chiroptera: Vespertilionidae) During Winter in Iran. *Journal of Zoological and Bioscience Research*, 1, 4:44-48.
- 54- Sharifi M, Veisi S, Javanbakht H and **Akmal**i **V**. (2012). Postnatal growth and wing development in the Kuhl's pipistrelles, *Pipistrellus kuhlii* (Chiroptera, Vespertilionidae) in captivity. *Zoological studies*. 51(8): 1235-1247.
- 55- **Akmal**i **V**, Farazmand A, Darvish J and Sharifi M. (2011). Phylogeography and taxonomic status of the greater mouse-tailed bat *Rhinopoma microphyllum* (Chiroptera: Rhinopomatidae) in Iran. *Acta Chiropterologica*, 13(2): 279–290.
- 56- **Akmal**i **V**, Sharifi M, Esmaeili-Rineh S and Ghorbani R. (2008). Evidence of sperm storage in *Myotis capaccinii* (Chiroptera: Vespertilionidae) in western Iran. *J. Vet. Res.* 63, 2:47-52.
- 57- Sharifi M, Rastegar-Pouyani N, **Akmal**i **V** and Assadian Narengi S. (2008). On distribution and conservation status of *Neurergus kaiseri* (Caudata: Salamandridae). *Russian Journal of Herpetology*. Vol. 15, No. 3, 2008, pp. 169 – 172.
- 58- Mozafar Sharifi & **Vahid Akmal**i (2006) Postnatal growth in the Lesser Mouse-eared bat, *Myotis blythii*, in captivity, *Zoology in the Middle East*, 37:1, 13-20, DOI: 10.1080/09397140.2006.10638144
- 59- **Vahid Akmal**i, Mozafar Sharifi & Hossein Farassat (2004) Habitat selection by the Common Pipistrelle, *Pipistrellus pipistrellus* s. l. (Chiroptera: Vespertilionidae), in the Dinevar region of western Iran, *Zoology in the Middle East*, 33:1, 43-50, DOI: 10.1080/09397140.2004.10638062

Papers published in proceeding:

- 1- Rashidi Ilzoleh, Raziye & **Akmal**i, **Vahid**. 2024. Biodiversity: threats, challenges and solutions. The First International And The Sixth National Conference On Biodiversity And Its Impact On Agriculture And Environment. Urmia University 'West Azarbaijan 2024-05-22.
- 2- Rashidi Ilzoleh, Raziye & **Akmal**i, **Vahid**. 2024. Biological museum collections as a tool for understanding climate changes. First international conference of museums. University of Mohaghegh Ardabili, Ardebil. 24 April 2024.
- 3- Rashidi Ilzoleh, Raziye & **Akmal**i, **Vahid**. 2025. Short-Term Cold Storage and Its Impact on *Tenebrio molitor* Growth Performance: Evaluating Resource-Efficiency for Sustainable Animal

Feed Production. The 11th National and 3rd International Animal Sciences Congress of Iran. Razi University, Kermanshah. Sept 17-18.

- 4- Mojtaba Abbasian, Hooshang ParsaTabar and **Vahid Akmal**i. 2016. Distribution of cave-dwelling bats of *Rhinolophus* genus in Lorestan Province. 34nd National & the 2nd International Geosciences Congress. Tehran. Iran.
- 5- Farajullah Fathipour, **Vahid Akmal**i and Mozafar Sharifi. (2016). Study of Diversity and distribution of horseshoe bat in Ilam province. The 2nd National Congress on biology and natural science of Iran. Tehran. Iran
- 6- Mehdizadeh Robab, **Akmal**i **Vahid** and Sharifi Mozafar.(2015). Species diversity of bats in Alisheikh cave in West Azerbaijan province. 33nd National Geosciences Symposium. Geological Survey of Iran, Tehran.
- 7- Fatemeh Ghadery-Jah, Firooze Heidari,**Vahid Akmal**i and Somayeh Esmaeili-Rineh. (2015). Cave biodiversity. 33nd National Geosciences Symposium. Geological Survey of Iran, Tehran.
- 8- Mohamad Niakan A, Heidari F, Ghaderi-jah F, **Akmal**i **V** and Esmaeili-Rineh S. (2014). The adaptations of subterranean animals in hypogean environments. 32nd National & the 1st International Geosciences Congress. Boali University of Hamedan.
- 9- **Akmal**i **V**, Akbarpoor M, Esmaeili-Rineh S, and Rastegar-Pouyani N. (2014). On cave-dwelling lizards of the family Gekkonidae in the Zagros Mountains. 32nd National & the 1st International Geosciences Congress. Boali University of Hamedan.
- 10- Esmaeili-Rineh S, Karampor N, **Akmal**i **V**, Taheri K, and Sharifi M. (2014). The conservational importance of echological and evolutionary functions in cave and karst environment. 32nd National & the 1st International Geosciences Congress. Boali University of Hamedan.
- 11- Farajullah Fathipour, **Vahid Akmal**i and Mozafar Sharifi. (2014). Distribution of cave-dwelling bats in western Iran. 32nd National & the 1st International Geosciences Congress. Boali University of Hamedan.
- 12- Mehdizadeh R, **Akmal**i **V**, Sharifi M and Moradi M. (2013). Cranial size and shape differences in the long-fingered bat (*Miniopterus schreibersii*) based on traditional and geometric morphometrics. 4th Razi university conference. 8-11 December. 2013. Kermanshah.
- 13- Veisi S, Sharifi M, Javanbakht H and **Akmal**i **V**. (2012). Development and morphology of wing in the Kuhl's pipistrelles, *Pipistrellus kuhlii* (Chiroptera, Vespertilionidae). 3th Razi university conference. Kermanshah.
- 14- **Akmal**i **V**, Sharifi M, and Esmaeili-Rineh S. (2011). Corrective measures in management of bat habitats in central Zagros. 1th conservation of biodiversity in the central Zagross landscape conservation zone project. Isfahan University of technology. Full paper.
- 15- Esmaeili- Rineh S, **Akmal**i **V**, Sari A and Sharifi M. (2010). Biodiversity in karst areas and role of conservation in the stability of karst ecosystem. 1th Iranian national conference on applied research in water resources. Kermanshah University of technology. Full paper.

Seminar Presentation:

- 1- Rashidi Ilzoleh, Raziye & **Akmal**i,**Vahid**. 2024. Effect of short-term storage of *Tenebrio molitor* larvae at refrigerator temperature on reproductive parameters. The 11th international and the 23rd national Iranian Biology Congress (IBC). Tehran University, Tehran. September 11-13
- 2- Safari Sefid Choghaei, A. & **Akmal**i,**V**. 2024. The distribution of mouse-tailed bats in Kermanshah province. The 11th international and the 23rd national Iranian Biology Congress (IBC). Tehran University, Tehran. September 11-13
- 3- Rashidi Ilzoleh, Raziye & **Akmal**i,**Vahid**. 2024.The effect of different diets on the length-weight relationship and condition factor of *Tenebrio molitor* larva. The 11th international and the 23rd national Iranian Biology Congress (IBC). Tehran University, Tehran. September 11-13
- 4- Rashidi Ilzoleh, Raziye, **Akmal**i,**Vahid** & Sadeghi, Ehsan . 2025. Dietary quality and embryogenesis in mealworms: effects of wheat and barley bran on developmental timing and viability. 2nd National

and 1st International Cell and Developmental Biology Conference of Iran. Kharazmi University, Tehran. October 16-17.

- 5- Behzadi, S. & **Akmali,V.** 2024. Phylogeny of mouse tailed bats *Rhinopoma* Geoffroy, 1818 (Chiroptera: Rhinopomatidae) using the Cytochrome b gene. 6th International and 18th Iranian Genetics Congress. Shahid Beheshti University, May 22 to 24, 2024, in Tehran.
- 6- Rashidi Ilzoleh, Raziye, **Akmali,Vahid** & Sadeghi, Ehsan . 2025. Developmental plasticity in *Tenebrio molitor*: influence of fruit-sourced moisture on embryonic duration and hatchability. 2nd National and 1st International Cell and Developmental Biology Conference of Iran. Kharazmi University, Tehran. October 16-17.
- 7- Rashidi Ilzoleh, Raziye, **Akmali, Vahid.** 2023. The effect of rearing diets on the biological characteristics of the *Tenebrio molitor* Linnaeus, 1758 (Coleoptera: Tenebrionidae). The 4th Iranian International Congress of Entomology, Razi University. Kermanshah, September, 18-20, 2023.
- 8- Rashidi Ilzoleh, Raziye, **Akmali, Vahid.** 2023. The impacts of vitamin source deprivation on developmental parameters of *Tenebrio molitor* Linnaeus, 1758 (Coleoptera: Tenebrionidae). The 4th Iranian International Congress of Entomology, Razi University. Kermanshah, September, 18-20, 2023.
- 9- Rashidi Ilzoleh, Raziye, **Akmali, Vahid.** 2022. The effect of not using fruit inbreeding larvae of yellow flour beetle *Tenebrio molitor*. 22nd national 10th international congress on Biology. Shahrekord University, Sharekord. 31 Aug – 1 Sept.
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