

Dr. Muzafar Riyaz

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J&K Union Territory, India.

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Profile: PhD in Molecular Phylogenetics with over 2.5 years of research experience. Committed to advancing research and mentoring future scientists across agricultural, life and environment sciences.

Education**Doctor of Philosophy**

(August 2019–February 2023)

Loyola College (University of Madras)

Chennai, Tamil Nadu, India.

Zoology-Entomology

*(Highly commendable)***Master of Science**

(September 2014 – October 2016)

HNB Garhwal Central University

Srinagar Garhwal, Uttarakhand, India.

Major: Zoology/Entomology

*Rank: First***Bachelor of Science**

(January 2011 – January 2014)

University of Kashmir

Srinagar Kashmir, India.

Major: Zoology

*Rank: Second***Research Experience****Senior Researcher**

(January 2025-Present)

Division of Entomology, Faculty of Agriculture, **Sher-e-Kashmir University of Agricultural Sciences and Technology**, Jammu, India.

Study Areas: Working on agricultural entomology and allied areas.

Research Associate

(February 2023-October 2024)

Xavier Research Foundation, **St. Xavier's College**, Palayamkottai-627002, Tirunelveli, Tamil Nadu, India.

Study Areas: Working on multidisciplinary projects including Biodiversity, Entomology, Ethnobotany, and Pesticide Toxicology and trained research scholars.

Senior Research Fellow (SRF)

(September 2018-October 2021)

SERB-DST-Govt. of India/Entomology Research Institute (ERI), **Loyola College**, Nungambakkam Chennai, Tamil Nadu, India. 600034.

Title of Study: Characterization of complete mitochondrial genome sequence of superfamily Noctuoidea (Insecta: Lepidoptera) moths and its deep phylogenetic evolutionary relationships.

Minor Project

Independent

(March 2018-Present)

IDEA WILD, USA sponsored/Self-funded.

Title of Study: Diversity of Entomofauna alongside Pir Panjal gradient, Northwestern Himalayas-Kashmir (J&K UT), India.

Subjects of Interest

Biodiversity, Taxonomy, Molecular Entomology, Ecology, Conservation Biology, Species Distribution, Phylogenetic tree construction, Phylogenetic Comparative Methods, Next Generation Sequencing (NGS), Mitochondriomics, Pesticide Toxicology, Environment pollution, Human Impact assessment, Ecological risk assessment.

Skills:

Languages known:



Computer Software/Data Analytical

English	SPPS	MS Office	R	MRBAYES
Kashmiri	MEGA	Graph Prism	Python	Phylosuite
Urdu	ORIGINPRO	Poster Genius	DAMBE	PAML
Hindi	Fig Tree	Adobe Photoshop	IQTREE	DnaSP



Laboratory and Field Skills



Sample Collection	Genitalia extraction	Dissection	Identification/Monitoring
Mounting and Spreading	Exploration	Photography	DNA Isolation

Top Journal Publications (Peer-Reviewed):

(Each journal's name has a clickable link to its DOI/journal homepage)

1. **Riyaz, M.**, Shah, R.A., Savarimuthu, I. and Kuppasamy, S., 2023. Molecular characterization and comparative analysis of five Noctuid mitogenomes: Insights into the phylogenetic relationships within the superfamily Noctuoidea. [Ecology and Evolution](#) (Accepted) (IF: 2.3/Q1)
2. **Riyaz, M*** and Savarimuthu, I. 2024. Plusiinae of Kashmir: Taxonomy, distribution and new faunistic records (Lepidoptera: Noctuoidea). [SHILAP Revista de lepidopterología](#), 52 (206): 375-383. (IF: 0.2/Q2)
3. Herrera, M.S., Forero, D., Calor, R.A., Romero G.Q., **Riyaz, M.**, et. al., 2024. Systematic challenges and opportunities in insect monitoring: A Global South perspective. [Philosophical Transactions of the Royal Society B](#), 379: 20230102. (IF: 5.4/Q1)
4. **Riyaz, M*** and Savarimuthu, I. 2023. First record of *Pyralis farinalis* Linnaeus, 1758 from India (Pyralidae: Pyralinae). [SHILAP Revista de lepidopterología](#), 51(204), 629–634. (IF: 0.2/Q2)
5. **Riyaz, M.**, Shah, R.A., Savarimuthu, I. and Kuppasamy, S., 2023. Characterization of complete mitochondrial genomes of five Noctuid moths (Lepidoptera: Noctuoidea) and their phylogenetic implications. [Journal of Biosciences](#) 48, 1-16. (IF: 2.1/Q1)
6. Shah, R.A., **Riyaz, M.**, Savarimuthu, I. and Kuppasamy, S., 2023. Characterization and molecular phylogenetic analysis of subfamily Erebininae (Lepidoptera: Noctuoidea: Erebinidae) using five complete mitochondrial genomes. [Biochemical Genetics](#) (IF: 2.1/Q2)
7. **Riyaz, M*** and Savarimuthu, I. 2023. Smart phone-macro lens setup (SPMLS): a low-cost and portable photography device for amateur taxonomists, biodiversity researchers, and citizen enthusiasts. [Bulletin of the National Research Centre](#) 47, 143.

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8. **Riyaz, M.,** Shah, R.A., Savarimuthu, I. and Kuppasamy, S., 2023. Comparative analysis of the mitochondrial genome of *Hypospila bolinoides* and *Lygephila dorsigera* (Lepidoptera: Noctuoidea: Erebidæ), with implications for their phylogeny. [European Journal of Entomology](#), 1-14. **(IF: 1.1/Q2)**
9. **Riyaz, M.,** Shah, R.A., Savarimuthu, I. and Kuppasamy, S., 2023. Phylogenomics including the newly sequenced mitogenomes of two moths (Noctuoidea, Erebidæ) reveals *Ischyja manlia* (incertae sedis) as a member of subfamily Erebinæ. [Genetica](#), 1-14. **(IF: 1.3/Q2)**
10. Shah, R.A., **Riyaz, M.,** Savarimuthu, I. and Kuppasamy, S., 2022. Characterization of four mitochondrial genomes from superfamilies Noctuoidea and Hyblæoidea with their phylogenetic implications. [Scientific Reports](#), 12, 18926: 1-15. **(IF: 3.8/Q1)**
11. **Riyaz, M** and Sivasankaran K. 2022. Prevalence and Impact of the Polyphagous Caterpillar of Cabbage White Butterfly (*Pieris brassicae* Linnaeus, 1758) on the Marrow Stem Kale (*Brassica oleracea* L. var *viridis*). [Current Agricultural Research Journal](#), 10(1), 01-06. **(UGC CARE LIST)**
12. **Riyaz, M** and Sivasankaran, K., 2022. First record of *Xanthia* (Cirrhiæ) *icteritia* (Hufnagel, 1766) (Noctuidæ: Xyleninæ) from India. [Journal of Threatened Taxa](#), 14(8): 21745–21748. **(Q3)**
13. **Riyaz, M.,** Mathew, P., Shiekh, T., Ignacimuthu, S. and Sivasankaran, K., 2021. First record of the Afghan Poplar Hawkmoth *Laothoe witti* Eitschberger et al., 1998 (Sphingidæ: Smerinthinæ) from India: a notable range extension for the genus. [Journal of Threatened Taxa](#), 13(7), 18943-18946. **(Q3)**
14. **Riyaz, M.,** Shah, R.A., Savarimuthu, I. and Kuppasamy, S., 2021. Comparative mitochondrial genome analysis of *Eudocima salaminia* (Cramer, 1777) (Lepidoptera: Noctuoidea), novel gene rearrangement and phylogenetic relationship within the superfamily Noctuoidea. [Molecular Biology Reports](#), 1-15. **(IF: 2.6/Q2)**
15. **Riyaz, M** and Yattoo, S.F., 2021. First record of *Sesia ommatiaeformis* (Moore, 1891) (Lepidoptera: Sesiidæ) from India. [Polish Journal of Entomology](#), 90(2), 103-105. **(Q4)**

Miscellaneous Journal Publications (Peer-Reviewed):

(Each journal's name has a clickable link to its DOI/journal homepage) **(WOS=Web of Science)**

1. Zargar, M.A., **Riyaz, M.,** Hussian, S.M., Nazir, A., et al. 2025. Pollen and Spores as Proxies for Paleoenvironment Reconstruction: A Review of Sediment-Based Research. [Journal of the Paleontological Society of India](#). **(Accepted) (IF: 0.5)**
2. Nazir, A., Hussian, S.M., **Riyaz, M.,** Zargar, M.A., Kere, Z. 2024. Microplastic and Heavy Metal Contamination in Sediments of the High-Altitude Nundkol Lake of Northwestern Himalayas-Kashmir. [Environmental Pollution and Management](#), 1, 167-178.
3. Nazir, A., Hussian, S.M., **Riyaz, M.,** Kere, Z., Zargar, M.A., L K, K. D. 2024. Environmental risk assessment, spatial distribution, and abundance of heavy metals in surface sediments of Dal Lake-Kashmir, India. [Environmental Advances](#), 17, 100562. **(Q1)**
4. Nazir, A., Hussian, S.M., **Riyaz, M.,** Zargar, M.A., 2024. Microplastic pollution in urban-Dal Lake, India: Uncovering sources and polymer analysis for effective assessment. [Water, Air, & Soil Pollution](#), 235, 89. **(IF: 3.8/Q2)**
5. **Riyaz, M.** (2024). Edible Insects: Islamic Perspectives on Entomophagy and Future Foods: Islamic Perspectives on Edible Insects. [SHAHIH: Journal of Islamicate Multidisciplinary](#), 8(2).

6. Singh, K., Sheikh, T. & **Riyaz, M***. 2024. *Anotogaster basalis* Selys, 1854: A noteworthy addition to the odonata fauna of Jammu and Kashmir, India. [Munis Entomology & Zoology](#), 19 (1): 514-517. (WOS)
7. Nazir, A., **Riyaz, M.**, Hussain, S.M. 2023. Microplastics occurrence in high-altitude mountain lakes: Insights from recent research. [Journal of Biodiversity and Environmental Sciences](#), 23 (6): 74-80. (WOS)
8. Chezhian, Y., Sarangan, P., **Riyaz, M.**, Tamilselvan, C. 2023. A preliminary assessment of faunal mortality on a road through Mannur Reserve Forest, Kanchipuram, Tamil Nadu, India. [Biological Diversity and Conservation](#), 16(3): 173 – 179. (WOS)
9. **Riyaz, M***. 2023. Taxonomy of Pyraloidea with new distributional records from Northwestern Himalayas, Kashmir-India. [Munis Entomology and Zoology](#), 18 (suppl.): 1965-1971. (WOS)
10. **Riyaz, M***. 2023. Unleashing the Alien: a deep dive into the terrifying world of Xenomorphs in science fiction and horror. [Journal of Geek Studies](#), 10(2): 59-65.
11. Mir, A. Y., **Riyaz, M.***, & Ignacimuthu, S. (2023). Assessing ethno-veterinary practices in Kashmir Himalayas: Traditional knowledge and its role in animal healthcare. [Nova Geodesia](#), 3(2), 131.
12. **Riyaz, M***. 2023. A Checklist of Prominent Moths (Notodontidae: Noctuoidea) with a new distributional record from the Northwestern Himalayas-Kashmir, (J&K UT), India. [Munis Entomology and Zoology](#), 18 (1): 565-570. (WOS)
13. **Riyaz, M***. 2022. Butterfly fauna (Lepidoptera: Rhopalocera) in and around Hirpora Wildlife Sanctuary, Shopian Kashmir, J&K UT, India. [Biological Diversity and Conservation](#), 15(3): 273-279. (WOS)
14. **Riyaz, M***. 2022. Citizen Science: A Significant Contribution to Biodiversity Monitoring and Conservation. [Computational Biology and Bioinformatics](#), 10(2): 60-67.
15. **Riyaz, M***, Shah, R.A., Kuppusamy, S., 2022. Missing tRNAs in MITOS gene annotation software: alternative methods to predict and generate secondary structures of tRNA genes within the complete mitogenome of insects. [International Journal of Entomology Research](#), 7(8): 125-131. (WOS)
16. **Riyaz, M***. 2022. Taxonomic description, distribution, and control measures of *Plodia interpunctella* (Hübner, 1813) as a serious pest emerged in the industrial growth centres of the Kashmir Valley, India. [Entomology & Applied Science Letters](#), 9(2): 48-55. (WOS)
17. **Riyaz, M***. 2022. Entomophagy and future foodstuff: a saga of sinister locusts in The Swarm. [Journal of Geek Studies](#), 9(2): 63-67.
18. **Riyaz, M***. 2022. First record of *Orthonama obstipata* Fabricius, 1794 (Geometridae: Larentiinae) from Kashmir Valley, J&K UT, India. [Species](#), 23(72), 331-336.
19. **Riyaz, M** and Sivasankaran, K., 2022. First Record of *Anadevidia Peponis* Fabricius, 1775 (Noctuidae: Plusiinae) From Northwestern Himalayas-Kashmir, (J&K UT), India. [Munis Entomology and Zoology](#), 17(2), 1508-1511. (WOS)
20. Patwekar, M., Patwekar, F., **Riyaz, M.**, Tabassum, S., Tarkash, S., Rather, GA. 2022. Psychological effects of COVID-19 pandemic on Indian population: a review. [International Journal of Community Medicine and Public Health](#), 9(5):2320-2325.
21. **Riyaz, M***. 2022. New distributional record of *Photoscotia miniosata* Walker, 1862 (Geometridae: Larentiinae) from the Kashmir Valley-Pir Panjal Range, Inner Himalayas, India. [Species](#), 23(71), 272-276.

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22. **Riyaz, M***. 2022. Taxonomical description and distribution of newly recorded *Odontopera muscularia* Staudinger, 1892 (Lepidoptera: Geometridae) from the Himalayas-Kashmir (J&K UT), India. [**Species**](#), 23(71), 207-212.
23. Kumar, M.U., Mochi S.A., **Riyaz, M.** Rediscovery, distribution and taxonomic description of *Astragalus trichocarpus* Benth. (Fabaceae) from the Northwestern Himalayas - Kashmir, India. [**Species**](#), 2022, 23(71), 169-172
24. Zanit, S.B., Mochi, S.M., **Riyaz, M.** 2022. Taxonomic diversity and Ethnobotany of genus *Solanum* (Solanaceae) alongside Pir Panjal gradient, North-western Himalayas-Rajouri (J&K UT), India. [**Species**](#), 23(71), 86-93.
25. **Riyaz, M** and Sivasankaran, K., 2022. Rediscovery and distribution of *Oreta Vatama Luculenta* Watson, 1967 (Lepidoptera: Drepanidae) from the Pir Panjal Valley, North-Western Himalayas, Kashmir, India. [**Munis Entomology and Zoology**](#), 17(1), 619-62. **(WOS)**
26. Singh, K.P., **Riyaz, M.**, Singh, G., Syed, S. 2021. Avifaunal diversity of Jodhpur Jhal Wetland Mathura (Uttar Pradesh) India: A preliminary survey. [**Journal on New Biological Reports**](#), 10 (2): 95 – 108.
27. Mochi, S.A and **Riyaz, M***. 2021. A Preliminary Survey Of Ethnomedicinal Flora Along Pir Panjal Gradient (Kashmir-Himalayas), Aharbal Kulgam (J&K UT), India. [**Journal of Plant Development Sciences**](#), 13(12): 891-902.
28. **Riyaz, M***. (2021). A Comprehensive account on the Insect diversity portrayed in the Holy Quran. [**Journal of Islam and Science**](#). 8 (2): 118-127.
29. **Riyaz, M.**, Sivasankaran, K. and Maria Packiam, S. 2021. Midnight Heroes brought to Daylight: Insights from the National Moth Week-(India). [**Insect Environment**](#), 24(3), 442–446. **(WOS)**
30. **Riyaz, M***. 2021. An eldritch anecdote of death's-head hawkmoth from *The Silence of the Lambs*. [**Journal of Geek Studies**](#), 8(2), 55-58.
31. **Riyaz, M*** and Reshi, M.A. 2021. First record of *Myrmeleon trivialis* (Gerstaecker, 1885) (Neuroptera: Myrmeleontidae) from the J&K UT (Kashmir Valley, India). [**Egyptian Academic Journal of Biological Sciences. A, Entomology**](#), 14(3) 59-64. **(WOS)**
32. **Riyaz, M***. 2021. Dragonflies: The Apex Predators of the Insect World. [**Academia Letters**](#), Article1365, 1-4.
33. **Riyaz, M***, Yattoo, S.F. and Volovnik, S., 2021. First record of *Cleonis pigra* Scopoli, 1763 (Coleoptera: Curculionidae) from the Himalayas: Kashmir, India. [**Journal of Entomology and Zoology Studies**](#), 9(3), 423-425.
34. **Riyaz, M*** and Sivasankaran, K., 2021. The Secret to Indian Tortoiseshell Surviving Harsh Winters in Northwestern Himalayas: Kashmir. [**Munis Entomology and Zoology**](#), 16 (2), 1267-1268. **(WOS)**
35. **Riyaz, M** and Sivasankaran, K., (2021). A Preliminary survey of Dragonflies and Damselflies (Insecta: Odonata) in and around Hirpora Wildlife Sanctuary Shopian, Kashmir. [**Egyptian Academic Journal of Biological Sciences. A, Entomology**](#), 14(1), 133-139. **(WOS)**
36. **Riyaz, M.**, Ignacimuthu, S. and Zuber, S.M., (2020). Intense selective logging of *Populus deltoides* Bartr. amid novel Covid-19 and its subsequent edge effects and forest fragmentation: An alarming scenario in the plant

ecology of Kashmir Valley. *International Journal of Current Research in Biosciences and Plant Biology*, 7(6), 64-68.

37. **Riyaz, M***, Iqbal, W.A., Sivasankaran, K., Ignacimuthu, S. 2020. Impact on Farmers' Health Due to the Pesticide Exposure in the Agrarian Zones of Kashmir Valley: A Review. *Acta Scientific Agriculture*, 4(2):16-22.
38. **Riyaz, M.**, Mathew, P., Paulraj, G. and Ignacimuthu, S., 2018. Entomophily of Apple ecosystem in Kashmir valley, India: A review. *International Journal of Scientific Research in Biological Sciences*, 5 (5):146-154.

Book Chapter Publications: (*Corresponding Author)

1. Rather, G. A., Gul, M. Z., **Riyaz, M.**, Chakravorty, A., Khan, M. H., Nanda, A., & Bhat, M. Y. (2021). Toxicity and Risk Assessment of Nanomaterials. In Handbook of Research on Nano-Strategies for Combatting Antimicrobial Resistance and Cancer (391-416). **IGI Global**. DOI: <http://dx.doi.org/10.4018/978-1-7998-5049-6.ch019>
2. **Riyaz, M***, Ignacimuthu, S., Shah, R. A., Sivasankaran, K., & Pandikumar, P. (2021). Ethnobotany of the Himalayas—Kashmir, India. In Ethnobiology of Mountain Communities in Asia (27-45). **Springer, Cham**. DOI: http://dx.doi.org/10.1007/978-3-030-55494-1_2
3. **Riyaz, M***, Shah, R. A., & Sivasankaran, K. (2021). Pesticide Residues: Impacts on Fauna and the Environment. In Biodegradation Technology of Organic and Inorganic Pollutants. **IntechOpen**. DOI: <http://dx.doi.org/10.5772/intechopen.98379>
4. **Riyaz, M***, Mathew, P., Zuber, S. M., & Rather, G. A. (2022). Botanical Pesticides for an Eco-Friendly and Sustainable Agriculture: New Challenges and Prospects. Sustainable Agriculture, 69-96. **Springer, Cham**. DOI: http://dx.doi.org/10.1007/978-3-030-83066-3_5
5. Rather, G. A., Hamid, S., **Riyaz, M.**, Hassan, M., Sofi, M. A., Manzoor, I., & Nanda, A. (2022). The Role of Green Synthesized Zinc Oxide Nanoparticles in Agriculture. In Sustainable Agriculture (119-142). **Springer, Cham**. DOI: http://dx.doi.org/10.1007/978-3-030-83066-3_7
6. **Riyaz, M.**, Hassan, S., & Rather, G. A. (2022). Revolutionizing Integrated Pest Management Using Nanobiotechnology: A Novel Approach to Curb Overuse of Synthetic Insecticides. In Insecticides. **IntechOpen**. DOI: <http://dx.doi.org/10.5772/intechopen.101155>
7. **Riyaz, M.**, Shah, R. A., & Packiam, S. M. (2022). Insect Conservation and Management: A Need of the Hour. In Global Decline of Insects. **IntechOpen**. DOI: <http://dx.doi.org/10.5772/intechopen.100023>
8. **Riyaz, M***, Mathew, P., Shah, R. A., Sivasankaran, K., & Zuber, S. M. Environmental Pesticide Degradation: Mechanisms and Sustainability. In Bioremediation and Phytoremediation Technologies in Sustainable Soil Management (3-51). **CRC/Apple Academic Press**. DOI: <http://dx.doi.org/10.1201/9781003281207-2>
9. Rather, G. A., Mathur, V., **Riyaz, M.** et. al. (2024). Mitochondrial Dysfunction and Its Role in Neurological Disorders. In Mechanism and Genetic Susceptibility of Neurological Disorders. **Springer, Cham**. DOI: https://doi.org/10.1007/978-981-99-9404-5_13

10. **Riyaz, M.** (2024). Enhancing Field-Based Biodiversity and Conservation Studies among Youth: A Transformative Approach. In Natural Resource Management Issues in Human-Influenced Landscapes. **IGI Global**. pp. 24-42. <https://doi.org/10.4018/978-1-6684-7051-0.ch002>

Ongoing Book Projects (Edited) with Publishers

1. **Insects in a Changing Climate: Adaptation, Migration, and Conservation**
Publisher: Apple Academic Press (Co-Published by CRC Press, Taylor & Francis)
Editors: Dr. S. Ignacimuthu & Dr. Muzafar Riyaz
2. **Sustainable Mosquito Control: Pioneering Solutions and Future Horizons in Vector Management**
Publisher: Apple Academic Press (Co-Published by CRC Press, Taylor & Francis)
Editors: Dr. Muzafar Riyaz, Dr. P. Ganesan & Dr. S. Ignacimuthu
3. **The Phylogenetic Pathways: Tracing Evolution Across Time and Species**
Publisher: Elsevier
Editors: Dr. Muzafar Riyaz & Dr. S. Ignacimuthu

Manuscripts with Journals & Publishers (under peer-review): (First Author[^], Solo author[#], Coauthor^{*}, Corresponding author[~])

1. Genes and Genomics (South Korea-Springer Nature/Q3)*
2. PLOS ONE (Q1)*
3. Scientific Reports (Q2)*
4. ENTOMON (India-Scopus)[#]
5. Aquatic Research*
6. SHILAP Revista de lepidopterología (Q2)^{^~}
7. (Book Chapter) Springer Nature*
8. (Book Chapter) Elsevier*

Complete mitochondrial genome sequences of Noctuoidea moths published in GENBANK (NCBI, USA)

➤ *A hyperlink is provided for each species name to access its corresponding sequence at NCBI.*

1. **Riyaz, M.,** Shah, R. A., Sivasankaran, K., & Ignacimuthu, S (2020). [*Eudocima salaminia*](#) (Cramer, 1777) mitochondrion, complete genome (Voucher-ERILMC-038; Accession no. MW683337).
2. **Riyaz, M.,** Shah, R. A., Sivasankaran, K., & Ignacimuthu, S (2021). [*Lygephila dorsigera*](#) (Walker, 1865) mitochondrion, complete genome (Voucher-ERILMC-094; Accession no. MW648384).
3. Sivasankaran, K., **Riyaz, M.,** Shah, R. A., & Ignacimuthu, S (2021). [*Oraesia emarginata*](#) (Fabricius, 1794) mitochondrion, complete genome (Voucher-ERILMC-051; Accession no. MW648382).
4. Shah, R. A., **Riyaz, M.,** Sivasankaran, K., & Ignacimuthu, S (2021). [*Westermannia superba*](#) (Hubner, 1823) mitochondrion, complete genome (Voucher-ERILMC-196; Accession no. MW648383).
5. **Riyaz, M.,** Shah, R.A., Savarimuthu, I. & Kuppasamy, S (2021). [*Ischyja manlia*](#) (Cramer, 1776) mitochondrion, complete genome (Voucher-ERILMC-089; Accession no. MW664367).
6. Sivasankaran, K., Shah, R. A., **Riyaz, M.,** & Ignacimuthu, S (2021). [*Rusicada privata*](#) (Walker, 1865) mitochondrion, complete genome (Voucher-ERILMC-101; Accession no. MW664368).

7. Shah, R. A., **Riyaz, M.**, Sivasankaran, K. & Ignacimuthu, S (2021). [*Blenina donans*](#) (Walker, 1858) mitochondrion, complete genome (Voucher-ERILMC-140; Accession no. MW678841).
8. **Riyaz, M.**, Shah, R. A., Sivasankaran, K., & Ignacimuthu, S (2021). [*Hypospila bolinoides*](#) (Guenee, 1852) mitochondrion, complete genome (Voucher-ERILMC-075; Accession no. MW691121).
9. Sivasankaran, K., **Riyaz, M.**, Shah, R. A., & Ignacimuthu, S (2021). [*Artena dotata*](#) (Fabricius, 1794) mitochondrion, complete genome (Voucher-ERILMC-091; Accession no. MW697902).
10. Sivasankaran, K., Shah, R. A., **Riyaz, M.**, & Ignacimuthu, S (2021). [*Actinotia polyodon*](#) (Clerck, 1759) mitochondrion, complete genome (Voucher-ERILMC-029; Accession no. MW697903).
11. Sivasankaran, K., **Riyaz, M.**, Shah, R. A., & Ignacimuthu, S (2021). [*Odontodes seranensis*](#) (Prout, 1922) mitochondrion, complete genome (Voucher-ERILMC-021; Accession no. MW719565).
12. Shah, R. A., **Riyaz, M.**, Sivasankaran, K., & Ignacimuthu, S (2021). [*Sphingomorpha chlorea*](#) (Cramer, 1777) mitochondrion, complete genome (Voucher-ERILMC-073; Accession no. MW751990).
13. Ignacimuthu, S., Sivasankaran, K., **Riyaz, M.**, & Shah, R. A (2021). [*Ercheia cyllaria*](#) (Cramer, 1779) mitochondrion, complete genome (Voucher-ERILMC-111; Accession no. MW751989).
14. **Riyaz, M.**, Shah, R. A., Sivasankaran, K., & Ignacimuthu, S (2021). [*Trigonodes hyppasia*](#) (Cramer, 1779) mitochondrion, complete genome (Voucher-ERILMC-122; Accession no. MW751988).
15. Sivasankaran, K., Shah, R. A., **Riyaz, M.**, & Ignacimuthu, S (2021). [*Mocis undata*](#) (Fabricius 1775) mitochondrion, complete genome (Voucher-ERILMC-057; Accession no. MW802208).
16. Shah, R. A., Ignacimuthu, S., **Riyaz, M.**, & Sivasankaran, K. (2021). [*Mythimna unipuncta*](#) (Haworth, 1809) mitochondrion, complete genome (Voucher-ERILMC-017; Accession no. MW802209).
17. **Riyaz, M.**, Sivasankaran, K., Shah, R. A., & Ignacimuthu, S (2021). [*Xanthodes albago*](#) (Fabricius, 1794) mitochondrion, complete genome (Voucher-ERILMC-172; Accession no. MW813975).
18. Sivasankaran, K., Shah, R. A., **Riyaz, M.**, & Ignacimuthu, S (2021). [*Paectes cristatrix*](#) (Guenee, 1852) mitochondrion, complete genome (Voucher-ERILMC-146; Accession no. MW846303).
19. **Riyaz, M.**, Shah, R. A., Sivasankaran, K., & Ignacimuthu, S (2021). [*Psimada quadripennis*](#) (Walker, 1858) mitochondrion, complete genome (Voucher-ERILMC-154; Accession no. MW846304).
20. Shah, R. A., Sivasankaran, K., **Riyaz, M.**, & Ignacimuthu, S (2021). [*Sympis rufibasis*](#) (Guenee, 1852) mitochondrion, complete genome (Voucher-ERILMC-121; Accession no. MW846302).
21. Sivasankaran, K., Ignacimuthu, S., **Riyaz, M.**, & Shah, R.A (2021). [*Lacera noctilio*](#) (Fabricius, 1794) mitochondrion, complete genome (Voucher-ERILMC-124; Accession no. MW846301).
22. **Riyaz, M.**, Shah, R.A., Sivasankaran, K. & Ignacimuthu, S (2021). [*Ophiusa tirhaca*](#) (Cramer, 1777) mitochondrion, complete genome (Voucher-ERILMC-099; Accession no. MW865752).
23. Shah, R.A., Sivasankaran, K., **Riyaz, M.**, & Ignacimuthu, S (2021). [*Oxyodes scrobiculata*](#) (Fabricius, 1775) mitochondrion, complete genome (Voucher-ERILMC-068; Accession no. MW865753).
24. Sivasankaran, K., Shah, R.A., **Riyaz, M.**, & Ignacimuthu, S (2021). [*Hemichloridia euprepia*](#) (Hampson, 1902) mitochondrion, complete genome (Voucher-ERILMC-169; Accession no. MW865754).
25. **Riyaz, M.**, Sivasankaran, K., Shah, R.A. & Ignacimuthu, S (2021). [*Episparis tortuosalis*](#) (Moore, 1867) mitochondrion, complete genome (Voucher-ERILMC-082; Accession no. MW879209).

CV

26. Shah, R.A., Ignacimuthu, S., Sivasankaran, K. & **Riyaz, M** (2021). [*Corcobara angulipennis*](#) (Moore, 1882) mitochondrion, complete genome (Voucher-ERILMC-170; Accession no. MW879210).
27. **Riyaz, M.**, Ignacimuthu, S., Sivasankaran, K. & Shah, R.A (2021). [*Risoba obstructa*](#) (Moore, 1881) mitochondrion, complete genome (Voucher-ERILMC-150; Accession no. MW879211).
28. Sivasankaran, K., Shah, R.A., **Riyaz, M.**, & Ignacimuthu, S (2021). [*Hyblaea puera*](#) (Cramer, 1777) mitochondrion, complete genome (Voucher-ERILMC-163; Accession no. MW885970).
29. Shah, R.A., **Riyaz, M.**, Sivasankaran, K. & Ignacimuthu, S (2021). [*Achaea serva*](#) (Fabricius 1775) mitochondrion, complete genome (Voucher-ERILMC-053; Accession no. MW899032).
30. **Riyaz, M.**, Ignacimuthu, S., Sivasankaran, K. & Shah, R.A (2021). [*Mecodina praecipua*](#) (Walker, 1865) mitochondrion, complete genome (Voucher-ERILMC-145; Accession no. MW899033).
31. **Riyaz, M.**, Shah, R.A., Sivasankaran, K. & Ignacimuthu, S (2021). [*Pandesma quenavadi*](#) (Guenee, 1852) mitochondrion, complete genome (Voucher-ERILMC-063; Accession no. MW899034).
32. Ignacimuthu, S., Sivasankaran, K., Shah, R.A. & **Riyaz, M** (2021). [*Bastilla crameri*](#) (Moore, 1885) mitochondrion, complete genome (Voucher-ERILMC-105; Accession no. MW899035).
33. Shah, R.A., Sivasankaran, K., **Riyaz, M.** & Ignacimuthu, S (2021). [*Dierna strigata*](#) (Moore 1867) mitochondrion, complete genome (Voucher-ERILMC-140; Accession no. MW924114).
34. Ignacimuthu, S., Sivasankaran, K., Shah, R.A. & **Riyaz, M** (2021). [*Erebus macrops*](#) (Linnaeus, 1768) mitochondrion, complete genome (Voucher-ERILMC-081; Accession no. MW924115).
35. Shah, R.A., **Riyaz, M.**, Sivasankaran, K. & Ignacimuthu, S (2021). [*Targalla apicifascia*](#) (Hampson, 1894) mitochondrion, complete genome (Voucher-ERILMC-178; Accession no. MW939914).
36. Ignacimuthu, S., Sivasankaran, K., **Riyaz, M.** & Shah, R.A (2021). [*Polydesma boarmoides*](#) (Guenee, 1852) mitochondrion, complete genome (Voucher-ERILMC-092; Accession no. MW969649).

Invited Talks/Conferences/Seminars/Workshops Attended & Papers/Abstracts Presented (National/International)

Please click on the below link or scan the code to see. ↓

<https://silver-meriel-64.tiiny.site>



Fellowships/Awards/Funding

1. Senior Research Fellowship (SRF)

Title of Study: Characterization of complete mitochondrial genome sequence of superfamily Noctuoidea (Insecta: Lepidoptera) moths and its deep phylogenetic evolutionary relationships.

Funded by: SERB, Department of Science & Technology, Govt. of India.

Work Location: Entomology Research Institute, Loyola College, Chennai, Tamil Nadu, India. 60034. (October 2018 to October 2021) [Appointment Letter](#)

2. Field Equipment

Donated by: **Idea Wild USA** as Co-Sponsor of the Project

Project Title: A Survey of Entomofauna in the Himalayan Region of Kashmir Valley and Conservation Strategies

Cost of Field Equipment (550 \$) [Certificate of Equipment Approval](#)

Editorial board member in Journals/Publishers:

(Each journal's name has a clickable link to its homepage)

1. [PLOS ONE](#) *(Edited 7 Manuscripts as of now)*
2. [Evolutionary Bioinformatics](#)

Peer Reviewer in Journals/Publishers:

S. No.	Journal	Manuscripts reviewed
1.	BMC Genomics	1
2.	Journal of Insect Biodiversity	1
3.	SHILAP Revista de lepidopterología	2
4.	ENTOMON	2
5.	International Journal of Tropical Insect Science	4
6.	F1000 Research	7
7.	Frontiers in Nutrition	2
8.	IGI Global (USA)	2
9.	Cogent food and Agriculture	1
10.	Zootaxa	1
11.	Journal of Horticultural Sciences	1
12.	Biological Diversity & Conservation	2
13.	Entomological News	1
14.	Sustainability and Biodiversity Conservation	1
15.	PLOS ONE	3
16.	Journal of Basic and Applied Zoology	1
17.	Frontiers in Medicine	1
18.	Frontiers in Pediatrics	1
19.	Frontiers in Public Health	1
20.	Evolutionary Bioinformatics	2
21.	Journal of Stored Products Research	2
22.	Notulae Scientia Biologicae	1
23.	Nova Geodesia	2
24.	Uttar Pradesh Journal of Zoology	2
Total manuscripts reviewed		45

Memberships:

1. Member: Indian Environment Network
2. Member: Asian Council of Science Editors
3. Member: Royal Entomological Society, London, UK.

Contributor to:

1. inaturalist
https://www.inaturalist.org/people/muzafar_riyaz
2. India Biodiversity Portal
<https://indiabiodiversity.org/user/show/814501>
3. Moths of India
<http://www.mothsofindia.org/>
4. Butterflies of India
<http://www.ifoundbutterflies.org/>
5. Odonata of India
<http://www.indianodonata.org/>

Referees

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Biography



Dr. Muzafar Riyaz, a distinguished researcher in the fields of life & environment sciences, has made significant contributions to the understanding of insect phylogenetics, ecology, diversity, taxonomy, conservation, emerging pollutants, pesticides and medicinal plants. Born on June 13, 1994, in the beautiful region of Kashmir, his passion for the natural world was ignited at an early age.

As a child, he spent countless hours exploring the mesmerizing landscapes of Kashmir, observing the intricate interactions between insects and their environment. These experiences fostered a deep curiosity and love for the living organisms that inhabit our planet. This passion led Muzafar Riyaz to pursue a Bachelor's degree in Zoology at a prestigious institution in Kashmir. During the undergraduate studies, Muzafar

Riyaz excelled in various zoological disciplines, developing a keen interest in entomology—the study of insects. His insatiable thirst for knowledge and the desire to make meaningful contributions to the scientific community prompted him to pursue a Master's degree in Zoology, with a specialization in entomology. After that, he worked as a Senior Research Fellow (2018-2021) in the laboratory of **Rev. Fr. Dr. S. Ignacimuthu S.J.** (World's Top 1% Cited Researcher) at Entomology Research Institute (ERI), Loyola College, Tamil Nadu, India, on a project in the field of molecular phylogenetics. In pursuit of advanced knowledge and cutting-edge research techniques, Dr. Riyaz chose to continue his academic journey by enrolling in a PhD program in Entomology/Evolutionary Biology at the Division of Taxonomy & Biodiversity, ERI, Loyola College (University of Madras). Throughout his research journey, Dr. Riyaz focused on understanding the evolutionary dynamics and biodiversity of insects with special emphasis on moths. His groundbreaking doctoral thesis explored the co-evolutionary relationship among Noctuoidea moths also served as a benchmark study from India. During his doctoral studies, Dr. Riyaz had the opportunity to collaborate with renowned entomologists and evolutionary biologists from around the world. These collaborations enriched his research endeavors and broadened his perspectives on the intricate workings of the natural world. Driven by an unwavering commitment to excellence, Dr. Riyaz published several groundbreaking papers in reputable scientific journals, earning them recognition and acclaim within the academic community.

Dr. Muzafar Riyaz embarks on an illustrious career as a research scientist characterized by interdisciplinary nature of his research. Beyond his research pursuits, Dr. Riyaz is known for his passionate advocacy of science communication. Through public lectures, outreach programs, and active social media presence, he aims to bridge

a gap between the scientific community and the public, promoting scientific literacy and appreciation for the natural world. Dr. Riyaz remains a source of inspiration for numerous young scholars who have embarked on doctoral studies, drawing motivation from his example. His unwavering dedication, intellectual rigor, and commitment to scientific excellence have positioned him as a leading researcher and thought leader in his field. With each new discovery, Dr. Riyaz pushes the boundaries of knowledge, leaving an indelible mark on the scientific community and shaping our understanding of the fascinating world of insects.