Muhammad Fiaz

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About

Dr. Muhammad Fiaz is working as Assistant Professor in the Atta-Ur-Rahman School of Applied Biosciences. Dr. Muhammad Fiaz has a PhD in Entomology. Dr. Muhammad Fiaz has published 18 research articles & conference papers having a citation count of 343, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Entomology 2015 - 2019
Universidade Federal de Viçosa , Brazil

MSc in Agri-Entomology 2008 - 2010
University of Agriculture Faisalabad , Pakistan

Experience

Assistant Professor 2025- Present
Atta-Ur-Rahman School of Applied Biosciences

Research Articles

Lipids and amino acids inhibitory herbicides impaired the leaf structure and photosynthetic capacity of wheat seedlings under elevated temperature 2025

Muhammad Shareef Jameel M. Al Khayri Aqsa Mushtaq Fanjiang Zeng Othman M. Al Dossary Hesham S. Ghazzawy Muhammad Fiaz Ahmed M. Ismail
Plant Physiology and Biochemistry, Volume:228,

Impact Factor: 5.700 | **Quartile:** 1
DOI: https://doi.org/10.1016/j.plaphy.2025.110314

In situ polymerization of sodium alginate and polyethylene glycol nano-formulations of acetamiprid against khapra beetle, Trogoderma granarium (Everts) (Coleoptera: Dermestidae) 2023

Bita Valizadeh Seyyed Hosein Pahlavan Hashemi Thomas P. Karbanowicz Muhammad Fiaz Saleh Panahandeh
Biocatalysis and Agricultural Biotechnology, Volume:51, Article Number 102751

Impact Factor: 3.400 | **Quartile:** 2 | **Citations:** 2
DOI: https://doi.org/10.1016/j.bcab.2023.102751

Metathoracic Glands of Scaptocoris castanea Perty, 1833 (Heteroptera: Cydnidae): Morphology and Volatilomic 2023

Jamile Fernanda Silva Cossolin Luis Carlos Martínez Mônica Josene Barbosa Pereira Lucia Madalena Vivan Marcelo Henrique dos Santos Muhammad Fiaz Paulo Eduardo Gomes Rodrigues Carvalho Camila Patrícia Ribeiro Souza José Eduardo Serrão
Microscopy and Microanalysis , Volume:29, Issue:2, Page:816-824

Impact Factor: 2.9 | **Quartile:** 1
DOI: https://doi.org/10.1093/micmic/ozac042

The fungicide azoxystrobin causes histopathological and cytotoxic changes in the midgut of the honey bee Apis mellifera (Hymenoptera: Apidae) 2023

Raissa Santana Serra Luis Carlos Martínez Jamile Fernanda Silva Cossolin Matheus Tudor Candido Santos de Resende Lenise Silva Carneiro Muhammad Fiaz Jose Eduardo Serrão
Ecotoxicology , Volume:32, Issue:2, Page:234-242

Impact Factor: 2.500 | **Quartile:** 2 | **Citations:** 34
DOI: https://doi.org/10.1007/s10646-023-02633-y

Lemongrass essential oil and its components cause effects on survival, locomotion, ingestion, and histological changes of the midgut in Anticarsia gemmatalis caterpillars 2022

Angelica Plata-Rueda Muhammad Fiaz Bruno Pandelo Brügger Veronica Cañas Rogerio Pereira Coelho José Cola Zanuncio Luis Carlos Martínez José Eduardo Serrão

Toxin Reviews, Volume:41, Issue:1, Page:208-217

Impact Factor: 3.100 | **Quartile:** 2 | **Citations:** 16

DOI: https://doi.org/10.1080/15569543.2020.1861468

Behavioral and ultrastructural effects of Novaluron on Aedes aegypti larvae 2021

Muhammad Fiaz Luis Carlos Martinez Angelica Plata-Rueda Jamile Fernanda Silva Cossolin Raissa Santana Serra Gustavo Ferreira Martins Jose Eduardo Serrao

Infection, Genetics and Evolution, Volume 93, Article Number 104974

Impact Factor: 4.393 | **Quartile:** 2 | **Citations:** 11

DOI: DOI: 10.1016/j.meegid.2021.104974

The salivary glands of Brontocoris tabidus (Heteroptera: Pentatomidae): Morphology and secretory cycle 2021

Paulo Eduardo Gomes Rodrigues Carvalho Luis Carlos Martínez Jamile Fernanda Silva Cossolin Angelica Plata-Rueda Luis Oswaldo Viteri Jumbo Muhammad Fiaz Acácio Geraldo Carvalho José Cola Zanuncio José Eduardo Serrão

Tissue and Cell, Volume:70, Article Number 101498

Impact Factor: 2.586 | **Quartile:** 2 | **Citations:** 4

DOI: https://doi.org/10.1016/j.tice.2021.101498

Exposure to chlorantraniliprole reduces locomotion, respiration, and causes histological changes in the midgut of velvetbean caterpillar Anticarsia gemmatalis (Lepidoptera: Noctuidae) 2021

Bárbara Monteiro de Castro e Castro Luis Carlos Martínez Angelica Plata-Rueda Marcus Alvarenga Soares Carlos Frederico Wilcken Antônio José Vinha Zanuncio Muhammad Fiaz José Cola Zanuncio José Eduardo Serrão

Chemosphere, Volume:263, Article N0: 128008

Impact Factor: 8.943 | **Quartile:** 1 | **Citations:** 30

DOI: https://doi.org/10.1016/j.chemosphere.2020.128008

Ultrastructure of the Bacteriocytes in the Midgut of the Carpenter ant Camponotus rufipes: Endosymbiont Control by Autophagy 2020

Wagner Gonzaga Gonçalves Kenner Morais Fernandes Ana Paula Alves Silva Danilo Gonzaga Gonçalves Muhammad Fiaz José Eduardo Serrão

Microscopy and Microanalysis, Volume:26, Issue:6, Page:1236-1244

Impact Factor: 4.127 | **Quartile:** 1 | **Citations:** 3

DOI: https://doi.org/10.1017/S1431927620024484

Morphology and composition of the midgut bacterial community of Scaptocoris castanea Perty, 1830 (Hemiptera: Cydnidae) 2020

Jamile Fernanda Silva Cossolin Déborah Romaskevis Gomes Lopes Luis Carlos Martínez Helen Cristina Pinto Santos Muhammad Fiaz Mônica Josene Barbosa Pereira Lucia Madalena Vivan Hilário Cuquetto Mantovani José Eduardo Serrão

Cell and Tissue Research, Volume:382, Issue:2, Page:337-349

Impact Factor: 5.249 | **Quartile:** 2 | **Citations:** 5

DOI: https://doi.org/10.1007/s00441-020-03197-7

Residual Efficacy of Pyriproxyfen on Grain Commodities Against Stored Product Insect Pests Residualwirkung von Pyriproxyfen auf Getreideprodukten gegen Vorratsschädlinge 2020

Muhammad Yasir Mansoor ul Hasan Muhammad Sagheer Muhammad Fiaz José Eduardo Serrão

Gesunde Pflanzen, Volume:72, Issue:3, Page:265-272

Impact Factor: 1.102 | **Quartile:** 3 | **Citations:** 9

DOI: https://doi.org/10.1007/s10343-020-00509-3

Anatomy, Histology, and Ultrastructure of Salivary Glands of the Burrower Bug, Scaptocoris castanea (Hemiptera: Cydnidae) 2019

Jamile Fernanda Silva Cossolin Luis Carlos Martínez Monica Josene Barbosa Pereira Lucia Madalena Vivan Hakan Bozdogan Muhammad Fiaz José Eduardo Serrão

Microscopy and Microanalysis, Volume:25, Issue:6, Page:1482-1490

Impact Factor: 3.414 | **Quartile:** 1 | **Citations:** 9

DOI: https://doi.org/10.1017/S1431927619015010

Pyriproxyfen, a juvenile hormone analog, damages midgut cells and interferes with behaviors of Aedes aegypti larvae 2019

Muhammad Fiaz Luis Carlos Martínez Angelica Plata-Rueda Wagner Gonzaga Gonçalves Debora Linhares Lino de Souza Jamile Fernanda Silva Cossolin Paulo Eduardo Gomes Rodrigues Carvalho Gustavo Ferreira Martins José Eduardo Serrão

PeerJ, Volume:2019, Issue:9, Article e7489

Impact Factor: 2.379 | **Quartile:** 2 | **Citations:** 46

DOI: https://doi.org/10.7717/peerj.7489

Cytotoxicity of Piper aduncum (Piperaceae) essential oil in brown stink bug Euschistus heros (Heteroptera: Pentatomidae) 2019

Jamile F S Cossolin Mônica J B Pereira Luis C Martínez Leonardo M Turchen Muhammad Fiaz Hakan Bozdoğan José E Serrão

Ecotoxicology , Volume:28, Issue:7, Page:763-770

Impact Factor: 2.535 | **Quartile:** 2 | **Citations:** 29

DOI: https://doi.org/10.1007/s10646-019-02072-8

Comparative potential of chitin synthesis inhibitors against trogoderma granarium E. (coleoptera: Dermestidae) for stored wheat managemenet in Pakistan 2018

Muhammad Fiaz Abid Ali Farooq Ahmad Mansoor-Ul Hasan Muhammad Sagheer José Eduardo Serraõ José Cola Zanuncio Muhammad Shareef Junhe Liu

Pakistan Journal of Agricultural Sciences, Volume:55, Issue:4, Pages 949-954

Impact Factor: 0.618 | **Quartile:** 3 | **Citations:** 5

DOI: 10.21162/PAKJAS/18.5307

Toxicological and morphological effects of tebufenozide on Anticarsia gemmatalis (Lepidoptera: Noctuidae) larvae 2018

Muhammad Fiaz Luis Carlos Martínez Angelica Plata-Rueda Wagner Gonzaga Gonçalves Muhammad Shareef José Cola Zanuncio José Eduardo Serraõ

Chemosphere , Volume:212, Pages 337-345

Impact Factor: 5.108 | **Quartile:** 1 | **Citations:** 46

DOI: https://doi.org/10.1016/j.chemosphere.2018.08.088

Squamocin induce histological and ultrastructural changes in the midgut cells of Anticarsia gemmatalis (Lepidoptera: Noctuidae) 2018

Muhammad Fiaz Luis Carlos Martínez Marilza da Silva Costa Jamile Fernanda Silva Cossolin Angelica Plata-Ruedaa Wagner Gonzaga Gonçalves Antônio Euzébio Goulart Sant'Ana José Cola Zanuncio José Eduardo Serrão

Ecotoxicology and Environmental Safety , Volume:156, Pages 1-8

Impact Factor: 4.527 | **Quartile:** 1 | **Citations:** 71

DOI: https://doi.org/10.1016/j.ecoenv.2018.02.080

Impact of drought on assimilates partitioning associated fruiting physiognomies and yield quality attributes of desert grown cotton 2018

Muhammad Shareef Dongwei Gui Fanjiang Zeng Zeeshan Ahmed Muhammad Waqas Bo Zhang Hassan Iqbal Muhammad Fiaz

Acta Physiologiae Plantarum , Volume:40, Issue:4, Article Number 71

Impact Factor: 1.608 | **Quartile:** 2 | **Citations:** 23

DOI: https://doi.org/10.1007/s11738-018-2646-3