Academic Curriculum Vitae

Prof. Khalid Salah Abd El-Hamid Eid

Professor of Economic Entomology and Apiculture

Department of Plant Protection, Faculty of Agriculture, Damanhour University

Former Vice Dean for Community Service and Environmental Development, Institute of Graduate Studies and Environmental Research (Bostan Campus)

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1. Personal Information

Full Name: Khalid Salah Abd El-Hamid Eid

Current Academic Rank: Professor

Current Position: Professor of Economic Entomology and Apiculture

Administrative Position: Vice Dean for Community Service and Environmental Development

Institution: Damanhour University

Faculty: Faculty of Agriculture

Department: Plant Protection Department

Nationality: Egyptian

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Academic Profiles:

- https://scholar.google.com/citations?hl=en&user=2gOgDXMAAAAJ
- https://www.scopus.com/authid/detail.uri?authorId=57210112996
- https://www.researchgate.net/profile/Khalid-Eid
- https://orcid.org/0009-0002-7747-4354

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2. Professional Profile

Prof. Khalid Salah Abd El-Hamid Eid is a distinguished academic, researcher, and university leader specializing in Economic Entomology and Apiculture with more than three decades of experience in higher education, scientific research, quality assurance, and community engagement. His research activities focus on honey bee biology, pollinator health, bee nutrition, bee diseases, pesticide toxicology, queen rearing, sustainable beekeeping systems, and environmental impacts on pollinators.

He has established a strong scientific record through peer-reviewed publications, specialized academic books, postgraduate supervision, and participation in national and international research collaborations. His contributions extend beyond research to academic accreditation, quality assurance systems, curriculum development, digital transformation in higher education, and scientific capacity building.

Prof. Eid has actively participated in scientific conferences, research projects, extension programs, and professional training initiatives dedicated to supporting beekeeping development and sustainable agriculture. He has supervised numerous postgraduate students and contributed significantly to institutional development through leadership positions in quality assurance and academic administration.

His current work emphasizes pollinator conservation, honey bee nutrition, pesticide risk assessment, bee breeding programs, and the application of modern technologies and artificial intelligence tools in agricultural and apicultural research.

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3. Research Specialization

General Specialization: Plant Protection

Specific Specialization: Economic Entomology and Apiculture

Current Research Interests

- Honey Bee Nutrition
- Pollinator Health
- Honey Bee Genetics
- Queen Rearing Technologies
- Bee Diseases and Pests
- Varroa Management
- Bee Products Quality
- Pesticide Toxicology
- Pollination Ecology
- Sustainable Beekeeping Systems
- Precision Apiculture
- Climate Change Effects on Pollinators

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4. Academic Qualifications

Ph.D. in Economic Entomology and Environmental Protection

Faculty of Agriculture, Alexandria University (2006)

M.Sc. in Economic Entomology

Faculty of Agriculture, Alexandria University (2000)

B.Sc. in Agricultural Sciences

Faculty of Agriculture, Alexandria University (1994)

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5. Academic and Professional Experience

Position	Institution	Period
Professor	Damanhour University	2022–Present
Associate Professor	Damanhour University	2014–2022
Assistant Professor	Damanhour University	2006–2014
Lecturer Assistant	Faculty of Agriculture, Alexandria University	2000–2006
Demonstrator	Faculty of Agriculture, Alexandria University	1995–2000
Vice Dean	Institute of Graduate Studies and Environmental Research	2023–2024

Major responsibilities included teaching, postgraduate supervision, scientific research, quality assurance leadership, accreditation activities, curriculum development, community outreach, and institutional strategic planning.

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6. Scientific Output

A. Peer-Reviewed Publications

Research contributions include:

- Honey bee genetics and phylogenetic relationships.
- Honey bee subspecies characterization.
- Honey bee immunity and disease resistance.
- Bee venom production and quality assessment.
- Pollinator ecology and colony performance.
- *Varroa destructor* dynamics and management.
- Bee products and propolis production.
- Environmental effects on honey bee colonies.

Representative International Publications

- Genetic network analysis between *Apis mellifera* subspecies based on mtDNA.
- Immune investigation of *Apis mellifera jemenitica* broods.
- Factors affecting quality of bee honey.
- Seasonal variations of colony activities and morphometric characterization.
- Egyptian honey bee review and conservation perspectives.

B. Scientific Books

- Honey Bee Products (2017)
- Honey Bee Management (2017)
- Economic Entomology (2021)
- Economic Insects and Pest Management.

C. Book Chapters

Available through scientific databases and collaborative publications.

D. Review Articles

Multiple review papers and extension publications related to apiculture, pollinator health, bee diseases, and sustainable beekeeping systems.

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7. Research Impact Metrics

Metric	Value
Academic Experience	30+ Years
Scientific Publications	25+
International Publications	15+
Google Scholar Citations	154+
H-index	6+
Research Profiles	Google Scholar, Scopus, ORCID, ResearchGate
International Collaborations	Egypt, Saudi Arabia and international partners

8. Research Projects

STDF Research Collaboration

Title: Pesticides Effects on the Future of Food Security in Egypt: Bee Products from Newly Reclaimed Lands as a Model

Role: Research support

Toxicity and Analysis Residue Pesticide Laboratory (PRATL)

Role: Founder and Scientific Supervisor

Institution: Faculty of Agriculture, Damanhour University

Achievement: Laboratory quality development and accreditation support.

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9. Postgraduate Supervision

Ph.D. Supervision

Several completed and ongoing doctoral theses in:

- Apiculture
- Economic Entomology
- Plant Protection
- Bee Diseases
- Pollinator Biology

M.Sc. Supervision

Numerous master's theses in apiculture and applied entomology.

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10. Publications

1. Draz K. A. A.; O. M. N. El-Ansary; M.A. Abdellatif and **K. S. Abd El -Hamid** (2004). Feeding stimulants influence on pollen substitute consumption and brood rearing activity in honeybee colonies. J. Agric. & Env. Sci. Alex. Univ., Egypt. Vol. 3(2), pp: 14-26.
2. **Eid K. S. A**.; K. A. A. Draz; M. A. M. El-Aw and H. F. I. Abo-Shaara (2010). Morphological characters of honey bees, *Apis mellifera* L., population at El-Beheira Governorate. *J. Agric. & Env. Sci.* Alex. Univ., Egypt. Vol. 9 (2): 25-43.
3. **Eid K. S. A**.; G. I. K. Marie and M. A. Abd-Erasol (2011). Acute toxicity of some biopesticides and their effect on acetylcholinesterase of honey bee (*Apis mellifera*) workers. *J. Plant Prot. and Path.,* Mansoura Univ., Vol. 2(10): 805-827.
4. Abou-Shaara H. F.; K. A. Draz; El-Aw M. A. and K. S. Eid (2011). Simple method in measuring honey bee morphological characters. 42_{nd} International Apicultural Congress– APIMONDIA. Buenos Aries, Argentina. September 21 to 25: pp 222. (Poster)
5. **Eid, K. S. A**.; K. A. A. Draz; M. A. M. El-Aw and H. F. I. Abou-Shaara (2011). Morphological and biological studies on the local honey bee and its Italian, Carniolan and German hybrids. *J. Agric. & Env. Sci.* Dam. Univ., Egypt. Vol. 10 (3): 48-69.
6. Abou-Shaara H. F.; K. A. Draz; El-Aw M. A. and **K. S. Eid** (2012). Stability of honey bee morphological characters within open populations. Uludağ Arıcılık Dergisi Şubat, Uludag Bee Journal, 12(1): 31-37.
7. El-Aw M. A. M., K. A. A. Draz, **K. S. A. Eid** and H. F. I. Abou-Shaara (2012): Measuring the morphological characters of honey bee (*Apis mellifera* L.) using a simple semi-automatic technique. *Journal of American Science*, 8(3): 558-564.
8. El-Aw, M. A.; K. A. A. Draz; **K. S. A. Eid** and S. A. A. Awad (2012). An Evaluation of the Efficiency of Different Antibiotics for Control of the American Foulbrood Disease of Honey Bees (*Apis Mellifera* L.). 5th EUROPEAN CONFERENCE OF APIDOLOGY, 3-7th September 2012, Halle an der Saale , Germany
9. Abdel Rasoul M. A.; **K. S. A**. **Eid** and G. I. K. Marie (2013). Impacts of multiple applications with Biofly (*Beauveria bassiana*) and Spintor® (Spinosad) on honey bee (*Apis mellifera*) larvae. *J. Plant Prot. and Path.,* Mansoura Univ., Vol. 4 (1): 49-66.
10. El-Aw M. A. M.; K. A. A. Draz; **K. S. A**. **Eid** and S. A. A. Awad (2013). An evaluation of the efficiency of different antibiotics for control of the American foulbrood disease of honey bees (*Apis mellifera* L.). *J. Pharm. Biomed. Sci.,* February; 27(27): 493-502.
11. Marie G. I. K.; **K. S. A**. **Eid** and M. A. Abdel Rasoul (2013). Toxic and Biochemical Effects of *Beauveria bassiana* and Spinosad on Nurse and Field Workers of Honey Bee, *Apis mellifera*. *J. Plant Prot. and Path.,* Mansoura Univ., Vol. 4 (4): 397-420.

12. **Eid K. S. A**. (2013). Hygienic behavior levels of local honey bees estimated by a new assay and expressed by disease incidence. *J. Agric. & Env. Sci*. Dam. Univ., Egypt. Vol. 12(1): 20-45.
13. **Eid K. S. A.**; K. A. A. Draz; M. A. M. El-Aw; H. F. I. Abou-Shaara and M. E. Ahmed (2015). Infestation levels of varroa mites (*Varroa destructor*) and mite-grooming behavior in honey bee (*Apis mellifera*) colonies at El-Beheira Governorate. *J. Agric. & Env. Sci. Dam. Univ., Egypt*. Vol. 14(3): 29-50.
14. **Eid K. S. A.**; M. A. M. El-Aw; K. A. A. Draz; M. E. E. Morsy and E. A. A. Awad (2019). *In vitro* antibacterial activity of substances, extracted from some plant families and propolis, against the causative agent of American Foulbrood (*Paenibacillus larvae larvae*). *J. Agric. & Env. Sci. Dam. Univ., Egypt*. Vol. 18 (1): 29-50.
15. Abou-Shaara, H. F. and **K. S. A. Eid** (2019). Increasing the profitability of propolis production in honey bee colonies by utilizing remote sensing techniques to spot locations of trees as potential sources of resin. *Remote Sensing Letters*, Vol. 10 (9): 922-927.
16. Nassar, A. M. K.; M. M. S. Yehia; **K. S. A. Eid**; H. M. Shaheen; A. A. Saati; H. F. Hetta; A. Elmistekawy and G. E. Batiha (2020). Ameliorative Effects of Honey, Propolis, Pollen, and Royal Jelly Mixture against Chronic Toxicity of Sumithion Insecticide in White Albino Rates. *Molecules*, Vol. 25 (11): 2633-2648.
17. Abou-Shaara, H. F.; **K. S. A. Eid** and S. R. Bayoumi (2020). Insights into the mtDNA of the Egyptian honey bees, *Apis mellifera lamarckii* using different analytical tools. *Journal of Entomological Research*, 44 (4):575-580. **doi: 10.5958/0974-4576.2020.00096.1**
18. Darwish A. A. E and **K. S. A. Eid** (2021). Ecological and control studies of the cotton aphids, *Aphis gossypii* (Glover.) on eggplant, *Solanum melongena* L. *Journal of Plant Protection and Pathology*, Mansoura Univ., Vol. 12 (8):527 - 534.
19. **Eid K. S. A.** and H. F. Abou-Shaara (2021). Predicting with the Pest Status of two Main Insects that Attacking Honey bee Colonies in Africa Based on the Future Climatic Changes. *Journal of Plant Protection and Pathology*, Mansoura Univ., Vol. 12 (8):535 – 541.
20. 19. **Eid K. S. A.** (2021). Motivation of Honey Bee, *Apis mellifera*, Colonies to Draw out Wax foundations and to Build Combs. *Journal of Plant Protection and Pathology*, Mansoura Univ., Vol. 12 (11):803-809.
21. **Eid K. S. A.;** H. F. Abou-Shaara; Y. M. M. Salim; A. K. Nassar; M. E. Harhash; A. A. Darwish and M. S. Z. Emara (2023). Common Pesticides in El-Nubaria Region Based on Questionnaires and Analysis of Field Samples. *J. Agric. & Env. Sci. Dam. Univ., Egypt*. Vol. 22 (1).
22. Ahmed M. E.; **K. S. A. Eid**; Adss I. A.; and H. F. Abou-Shaara (2024). Screening subspecies status of honey bee workers collected from some queen rearing stations utilizing geometric morphometrics. *J. Agric. & Env. Sci. Dam. Univ., Egypt*. Vol. 23 (3).
23. Emara M. S. Z.; **K. S. A. Eid**; A. A. Darwish, and H. F. Abou-Shaara (2025). Effects of Sublethal Exposure to the Herbicide Atrazine and Insecticide

Profenofos on Queen Performance and Colony Strength in Apiary Settings. *Journal of Apiculture*, 40(2). DOI: 10.17519/apiculture.2025.04.

24. Adss I. A.; M. E. Ahmed; **K. S. A. Eid** and H. F. Abou-Shaara (2025). Genetic Diversity of Honey Bee Queens and Workers from Some Queen-Rearing Stations in Egypt Based on ISSR Polymorphism. *Biology Bulletin*, Vol. 52:148.

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11. Thesis Examination

Member of examination committees for M.Sc. and Ph.D. theses in:

- Economic Entomology
- Apiculture
- Plant Protection
- Agricultural Sciences

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12. Teaching Experience

Undergraduate Courses

- Economic Entomology
- Honey Bee Management
- Agricultural Zoology
- Insect Ecology
- Applied Entomology
- Integrated Pest Management

Postgraduate Courses

- Advanced Apiculture
- Honey Bee Diseases
- Bee Products
- Bee Nutrition
- Bee poisoning

Curriculum Development

Participated extensively in curriculum design, academic program development, e-learning implementation, and digital assessment systems.

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13. Scientific Reviewing

Activities include:

- Reviewing scientific manuscripts.
- Reviewing research proposals.
- Participating in postgraduate examination committees.
- Academic quality evaluation and accreditation reviews.

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14. Scientific Conferences

Participated in major scientific conferences including:

- Alexandria BioVision Conference (2014, 2018).
- Joint Scientific Forum on Avian Influenza.
- International conferences on apiculture and agricultural sciences.
- Numerous scientific webinars with CABI and Egyptian Knowledge Bank.

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15. Awards and Honors

- Academic recognition certificates.
- Honors for quality assurance leadership.
- Recognition for community service and agricultural extension.
- Appreciation awards for scientific training and outreach activities.

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16. Training and Professional Certifications

Completed more than 30 certified professional development programs in:

- University Teaching
- Strategic Planning
- Quality Assurance
- Research Ethics
- Scientific Publishing
- Digital Transformation
- ISO 17025 Standards
- Academic Accreditation

- E-Learning Technologies
- TOT Programs

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17. Community Service and Professional Outreach

Major activities include:

- Training beekeepers throughout Egypt.
- Agricultural extension programs.
- Pollinator awareness campaigns.
- Technical consultations for beekeeping projects.
- Participation in environmental development initiatives.
- Educational outreach and scientific communication.

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18. Professional Memberships

- Egyptian Society of Entomology
- Scientific and academic committees.
- Quality assurance committees.
- Professional beekeeping organizations.

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19. Skills

Research Skills

- Experimental Design
- Scientific Writing
- Grant Proposal Development
- Research Project Management

Statistical Analysis

- SPSS
- Experimental Statistics
- Data Interpretation

Laboratory Skills

- Honey Bee Research
- Bee Disease Diagnostics
- Pesticide Residue Analysis
- Toxicological Assessment

Digital and AI Skills

- Microsoft Office Suite
- Microsoft Teams
- Google Classroom
- AI-Assisted Research
- Academic Databases

Languages

- Arabic (Native)
- English (Professional Working Proficiency)

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20. References

Available upon request.

Executive Biography

Prof. Khalid Salah Abd El-Hamid Eid is a Professor of Economic Entomology and Apiculture at Damanhour University and currently serves as former Vice Dean for Community Service and Environmental Development at the Institute of Graduate Studies and Environmental Research. With more than thirty years of academic, research, administrative, and extension experience, he has established a distinguished profile in honey bee science, pollinator biology, and sustainable apiculture.

His research focuses on honey bee nutrition, bee genetics, bee diseases, pesticide toxicology, pollinator conservation, queen breeding, and environmental impacts on bee health. He has authored numerous peer-reviewed publications, scientific books, and technical reports while actively contributing to international collaborations in bee research and agricultural sustainability.

Prof. Eid has supervised postgraduate students, participated in scientific conferences and quality assurance initiatives, and contributed substantially to curriculum

development and institutional accreditation. His scientific and community contributions support food security, biodiversity conservation, and sustainable agricultural production through the advancement of pollinator health and modern beekeeping practices.

Academic Highlights

1. Full Professor of Economic Entomology and Apiculture.
2. More than 30 years of academic experience.
3. Vice Dean at the Institute of Graduate Studies and Environmental Research.
4. Founder and supervisor of PRATL laboratory.
5. Author of specialized books in apiculture and economic entomology.
6. Extensive postgraduate supervision and examination experience.
7. Active participation in international honey bee research collaborations.
8. Contributor to internationally indexed publications on honey bee genetics and health.
9. Leadership in quality assurance and academic accreditation.
10. Significant contributions to beekeeper training, extension, and pollinator conservation programs.