

Curriculum Vitae

Dr. Emad Ibrahim M. M. Khater, PhD, DIC



Dr. Emad Ibrahim M. M. Khater, PhD, DIC

Associate Professor,
Medical Entomology & Molecular Entomology
Molecular Cell Biology (mosquito-pathogen interactions)
MSc, BSc, Ain Shams University, Egypt
PhD, DIC, Imperial College London, UK

Google Scholar: https://scholar.google.com/citations?user=X_xcp_AAAAAJ&hl=en

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ResearcherId: <http://www.researcherid.com/rid/D-4248-2009>

Research Gate: https://www.researchgate.net/profile/Emad_Khater

TDR Affiliates (tdr-global): <http://profiles.tdr-global.net/profiles/display/person/4540>

Date and place of birth: 5th December, 1968, Cairo, Egypt.

Current Affiliation (on work-leave to Saudi Arabia):

Director of the Public Health Pests Laboratory of Jeddah Governorate (PHPL), Jeddah, Kingdom of Saudi Arabia (and Director of Projects at the Golden Eyes Est.). The lab includes 27 researchers and employees from BSc to PhD levels, and multi-ethnic.

Permanent Affiliation:

Associate Professor, Department of Entomology, Faculty of Science, Ain Shams University, Abbassiah, 11566, Cairo, Egypt.

Current Contact Address of Employer:

Golden Eyes Est.

Jeddah 21452, P.O.Box 2754,

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Graduation:

1. **PhD**, Imperial College London, Molecular Cell Biology, Biological Sciences, November 30, 2004. The thesis entitled "Molecular and Ultrastructural Characterization of Development of Malaria Parasite in the Mosquito", the University of London, London, the United Kingdom. Supervisor, Prof. Robert E. Sinden, DSc.

The thesis had been equalized by the Supreme Council of Universities in April 11, 2005, No. 274.

2. **DIC** (the Diploma of the Imperial College), January, 2005, Cell biology of malaria parasite, entitled "*Electron Microscopy of Malaria Parasite in the Mosquito*", Imperial College London, the University of London, London, the United Kingdom.
3. **MSc**, Faculty of Science, Ain Shams University, in Entomology, June 28, 1997, Insect Toxicology. The thesis entitled "Insecticide susceptibility and associated esterases in sand fly populations in Egypt", Cairo, Egypt.
4. **BSc** in Entomology, Excellent grade, May 1991, Department of Entomology, Faculty of Science, Ain Shams University, Cairo, Egypt.

Professional Positions:

1. **Associate Professor**, Department of Entomology, Faculty of Science, Ain Shams University, February, 25th, 2013-present (permanent).
2. **Assistant Professor**, Plant Protection Department, College of Food and Agricultural Sciences, King Saud University (KSU), Riyadh, Saudi Arabia, Oct. 2008-Dec.2014 (on work-leave to Saudi Arabia).
3. **Vice-Director, the Research Chair of Insect Vector-Borne Diseases (IVD)**, Plant Protection Department, King Saud University (KSU), Riyadh, Saudi Arabia, Oct. 2010-Dec.2014.
4. **Assistant Professor**, Department of Entomology, Faculty of Science, Ain Shams University (May 30, 2005- February, 25th, 2013).
5. **Assistant Lecturer**, Department of Entomology, Faculty of Science, Ain Shams University, (September 1, 1997-May 30, 2005).
6. **Demonstrator**, Department of Entomology, Faculty of Science, Ain Shams University (October 26, 1991-September 1, 1997).
7. **Researcher**, the Research and Training Centre on Vectors of Diseases, Ain Shams University, Cairo. The Centre is a WHO-collaborating centre since 1981 on research and training on various aspects on major disease vectors, 2005-2007.

Publications:

✓ **Published or In-Press:**

a. Molecular biology, phylogenetics and biology (parasites and vectors):

1. Dessens JT, Mendoza J, Claudianos C, Vinetz JM, **Khater E**, Hassard S, Ranawaka GR, Sinden RE.(2001). Knockout of the Rodent Malaria Parasite Chitinase PbCHT1 Reduces Infectivity to Mosquitoes, *Infection and Immunity*, 69(6):4041-47.
2. Dessens JT, Siden-Kiamos I, Mendoza J, Mahairaki V, **Khater E**, Vlachou D, Xu XJ, Kafatos FC, Louis C, Dimopoulos G, Sinden RE. (2003). SOAP, a novel malaria ookinete protein involved in mosquito midgut invasion and oocyst development. *Molecular Microbiology*, 49(2):319–329.
3. **Khater, E I**, Sinden, RE and Dessens, JT (2004). A malaria membrane skeletal protein is essential for normal morphogenesis, motility and infectivity of sporozoites. *The Journal of Cell Biology*, 167(3):425-432.

4. Annie Z. Tremp, **Emad I. Khater**, Johannes T. Dessens (2008). IMC1b is a membrane skeleton protein involved in cell shape, strength, motility and infectivity of malaria ookinetes. *Journal of Biological Chemistry*, 283(41): 27604–27611.
5. Noha M. Abdel-Badei, **Emad I.M. Khater**, Susan Daba, Magdi G. Shehata (2012). Morphometrics and protein profiles of the salivary glands of *Phlebotomus papatasi* and *Phlebotomus langeroni* sand flies. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 106 (2012) 235– 242.
6. Gloria-Soria A, Ayala D, Bheecarry A, Calderon-Arguedas O, Chadee DD, Chiappero M, Coetzee M, Bin Elahee K, Fernandez-Salas I, Kamal HA, Kamgang B, **Khater EI**, Kramer LD, Kramer V, Lopez-Solis A, Lutomiah J, Martins A Jr, Micieli MV, Paupy C, Ponlawat A, Rahola N, Rasheed SB, Richardson JB, Saleh AA, Sanchez-Casas RM, Seixas G, Sousa CA, Tabachnick WJ, Troyo A, Powell JR. (2016). Global Genetic Diversity of *Aedes aegypti*. *Molecular Ecology*, 25: 5377–5395. doi: 10.1111/mec.13866.
7. **E.I.M. Khater**, F. Baig, A. Saleh, H. Kamal (2016). *Aedes aegypti* mosquito vector of dengue in the Arabian Peninsula: Ecology, phylogenetics and control Abstract no. 20.196, *International Journal of Infectious Diseases* 53S (2016) 155–1156 (<http://dx.doi.org/10.1016/j.ijid.2016.11.380>).

b. Ecology and Insecticide Susceptibility (vectors)

1. **Emad I. Khater**, Mohamed M. Sowilem, Mohamed F. Sallam, Azzam M. Alahmed (2013). Ecology and habitat characterization of mosquitoes in Saudi Arabia. *Tropical Biomedicine* 30(3): 1–19.
2. Mohamed M. Sowilem, Hany A. Kamal and **Emad I. Khater** (2013). Life table characteristics of *Aedes aegypti* (Diptera: Culicidae) from Saudi Arabia. *Tropical Biomedicine* 30(2): 301–314.
3. Fahmy, A R, **Khater, E I**, El-Sawaf, B, Shehata, M G (1996). Insecticide susceptibility status of field populations of sand fly *Phlebotomus papatasi* in the Sinai Peninsula, Egypt, WHO/Leish/96.38, TDR/WHO, the World Health Organization, Geneva.
4. Sahar A. B. Fallatah and **Emad I. M. Khater** (2010). Potential of Medicinal Plants in Mosquito Control. *Journal of the Egyptian Society of Parasitology*, 40(1): 1–26.
5. Hany A. Kamal and **Emad I. M. Khater** (2010). The biological effects of the insect growth regulators pyriproxyfen and dudim against on the mosquito *Aedes aegypti* (L.). *Journal of the Egyptian Society of Parasitology*, 40(3): 581-590.
8. Hany A. Kamal and **Emad I. M. Khater** (2013). Potency and persistence of the bacterial mosquitocide *Bacillus sphaericus* against culicine mosquitoes under field conditions. *Journal of the Egyptian Society of Parasitology*, 43(1): 115–124.
9. Muhammad Mohsin, Samina Iqbal Naz, Imtinan Akram Khan, Aliya Jabeen, Hazrat Bilal, Rizwan Ahmad, Yonus Alshamrani, **Emad IM Khater** and Ernest Tambo (2016). Susceptibility status of *Aedes aegypti* and *Aedes albopictus* against insecticides at eastern Punjab, Pakistan. *International Journal of Mosquito Research* 2016; 3(5): 41-46.
10. Imrana Noreen, Imtinan Akram Khan, **Emad Khater**, Muhammad Naeem, Ahmad Mohammad Allam, Rizwan Ahmed, Muhammad Mohsin, Soaib Ali Hassan, Doaa E. Soliman (2017). Field Evaluation of Lethal Ovitrap for the Control of Dengue Vectors in Islamabad, Pakistan. *International Journal of Ecotoxicology and Ecobiology*, 2(1): 16-25, doi: 10.11648/j.ijee.20170201.13.

c. Public Health and Epidemiology:

1. Ernest Tambo, Tamiru Oljira, Olalubi A. Oluwasogo, **Emad I. M. Khater** and Zhou Xiao-Nong (2015). Averting MERS-Cov Emerging Threat and Epidemics: The Importance of Community Alertness and Preparedness Policies and Programs, *Journal of Prevention & Infection Control*, vol.1 (1): 2-6.
2. Tambo E, **Khater EI**, Chen JH, Bergquist R, Zhou XN (2015). Nobel prize for the artemisinin and ivermectin discoveries: a great boost towards elimination of the global infectious diseases of poverty. *Infect Dis Poverty*, Dec 28; 4:58.
3. Tambo E, Khayeka-Wandabwa C, Kamal HA and **Khater EIM** (2016). Boosting Preparedness and Emergency Response Systems Capacity against Zika and Other Emerging Outbreaks in Low Resource and Vulnerable Settings, *Austin J. Infect. Dis.*; 3(1): 1018.
4. Tambo E, Chen JH, Zhou XN, **Khater EI** (2016). Outwitting dengue threat and epidemics resurgence in Asia-Pacific countries: strengthening integrated dengue surveillance, monitoring and response systems. *Infect Dis Poverty*, 27; 5(1):56.
5. Tambo E, Chuisseu PD, Ngogang JY, **Khater EI** (2016). Deciphering emerging Zika and dengue viral epidemics: Implications for global maternal-child health burden. *J. Infect Public Health*, 9(3):240-50.
6. Ernest Tambo, Christopher Khayeka-Wandabwa, Oluwasogo A Olalubi, Jeanne Y Ngogang and **Emad IM Khater** (2016). Strengthening Integrated Zika Virus Epidemics Prevention and *Aedes* Mosquito Management and Containment Programs Innovations in Africa. *J Mol Pathol Epidemiol*, 2016, Vol.1(5):1-4.
7. Ernest Tambo, Ghislaine Madjou, Christopher Khayeka-Wandabwa, Oluwasogo A Olalubi, Chryseis F Chengho, **Emad IM Khater** (2017). Ethical, legal and societal considerations on Zika virus epidemics complications in scaling-up prevention and control strategies. *Philosophy, Ethics, and Humanities in Medicine*, 12 (1): 3.
8. Ernest Tambo, Ahmed Mohamed Fouad, **Emad I.M. Khater** (2017). Strengthening community emergency preparedness and response in threats and epidemics/disasters prevention and management in Saudi Arabia, *International Journal of Emergency Management*, 13 (3): 288-303.
9. Ernest Tambo, Christopher Khayeka-Wandabwa, Olalubi A. Oluwasogo, Ahmed A. Adedeji, Jeanne Y. Ngogang, **Emad IM Khater** (2017). Addressing knowledge gaps in molecular, sero-surveillance and monitoring approaches on Zika epidemics and other arbovirus co-infections: a structured review. *J. Parasite Epidemiology and Control*, 2(Issue 2), May 2017, Pages: 50–60 (Available online 3 February 2017), <http://dx.doi.org/10.1016/j.parepi.2017.01.001>
10. Ernest Tambo and **Emad I.M. Khater** (?). Public health laboratories surveillance capabilities in guiding evidence-based preparedness and response programs and strategies against *Aedes*-vectors and pathogens threats and epidemics, *Journal of MPE Molecular Pathological Epidemiology* (accepted with minor revision).
11. Ernest Tambo, Adama Kazienga and **Emad IM Khater** (2017). Towards integrated dengue surveillance and early warning systems and indicators for evidence programs and resources allocation in Saudi Arabia, Abstract No.: 42, Proceedings of the 2nd International Saudi Health Informatics Conference (ISHIC 2017).

d. Miscellaneous publications:

1. Magdi G. Shehata, Alaa M. Abu-Zeid, **Emad I. M. Khater**, Hanan H. El-Guindy and Mohammed G. Shams (2007). Research Ethics Committee (REC), Policies and Procedures for Establishment of a University Research Ethics Committee". Ain Shams University Science Bulletin, vol. 45:135-149. In English with Arabic-version (see below).
2. مجدى ج. شحاته، علاء م. ابو زيد، عماد ا. خاطر، حنان ه. الجندى و محمد ج. شمس (2007). لجنة اخلاقيات البحوث، السياسات والخطوات لتأسيس لجنة اخلاقيات البحوث بالجامعة. نشرة العلوم لجامعة عين شمس، مجلد 45: 135-149. باللغة العربية.
3. **Emad I. Khater**, Yasser M. Abdel-Latif, Mona G. Mahmoud, Enas H. Ghallab, Magdi G. Shehata (2014). Development of a Local Entomological Database for Education and Research using Simulation (Virtual) Methods. (IJACSA) International Journal of Advanced Computer Science and Applications, 5(3):127-132.

○ **Manuscripts submitted and in-preparation:**

1. **Emad I. Khater**, Janet T. Midega, Kashif Munawar, Azzam Alahmed, George K. Christophides (?). The target-of-rapamycin pathway affects infectivity of the malaria parasite *Plasmodium berghei* to the mosquito *Anopheles stephensi* (in-review for re-submission).
2. **Emad I. Khater**, Enas H. Ghallab, Mona G. Shaalan, Waqar Butt, Mohamed B. Nur, Adel M. Gad, Abraham Mnzava. Vector Distribution and Insecticide Resistance Target Site Mutations in *Anopheles arabiensis* in Somalia, submitted for review, One Health.
3. Kashif Munawar, Amgad Saleh, **Emad I. Khater** (?). Molecular characterization of anopheline (Anophelinae: Culicidae) mosquitoes of the Oriental and Afrotropical Zoogeographic zones in Saudi Arabia (under-submission to Infection Genetics and Evolution).
4. **Emad I. Khater**, Farrukh Baig, Amgad Saleh, Jeff. R. Powell (?). Molecular phylogenetics of the dengue vector *Aedes aegypti* from the Arabian Peninsula (in-preparation for submission to Infection Genetics and Evolution).
5. Sumrin Sahar, Akbar Ali, Hazrat Bilal, Rana Muhammad Saleem, **Emad I Khater**, Akhtar Tanveer (?). *Pfmdr1* gene in *Plasmodium falciparum* field isolates from Muzaffargarh, Pakistan (in-preparation for submission).
6. Ernest Tambo; Christopher Khayeka-Wandabwa; Oluwasogo A Olalubi; Ghislaine Madjou; Pascal D Chuisseu; Jeanne Y Ngogang; **Emad I.M. Khater** (?). Improving African researchers stewardship capacity development on emerging threats and epidemics in Africa (submitted to BHSR-D-16-01081).
7. Ernest Tambo, Christopher Khayeka-Wandabwa, Oluwasogo A Olalubi; Ghislaine Madjou; Pascal D Chuisseu; Jeanne Y Ngogang; **Emad I.M. Khater**. Unlocking the growth and development capabilities of African researchers through emerging threats and epidemics preparedness, prevention and control programs in Africa (submitted to BMC Research Notes, RESN-D-16-01171).
8. Tambo E and **Khater EIM** et al. (?). Zika virus epidemics and its abnormalities versus health systems preparedness and rapid response programs across Africa: what should African leaders and researchers do now? (Submitted to International Journal of Infectious Diseases, IJID-D-16-00377).
9. Ernest Tambo, **Emad IM Khater**, Adama Kazienga, Chryseis F Chengho, Michel Talla, Charlin Fotsing (?). Impact of IT-based health informatics applications and emerging Zika/Ebola epidemics data and information access and dissemination, (submitted to Telematics and Informatics, Sept, 2016).

10. Ernest Tambo, AG El-Dessouky, M E Sayed, A Kazienga, H Bilal , SS El-Hossary, MM Sowilem, Kamal HA, **Emad IM Khater** (?). Operational research and knowledge gaps in leishmaniasis control and elimination in the Middle East and North Africa, PLOS Neglected Tropical Diseases, Feb, 2017.

➤ **Translations:**

Translated from English into Arabic the comic entitled: "Malaria: The Battle against a Microscopic Killer© EVIMalaR, Jamie Hall and Edward Ross, 2012. Published by the European Commission FP7 Network of Excellence Programme. http://www.malariacomix.com/component/option,com_comicstrip/Itemid,196/task,comicchapters/view,comicchapters/

MSc & PhD Thesis Supervision:

1. **M.Sc. thesis** (degree awarded on November, 2009) (by Noha AbdelBadei). Title: Characterization of Salivary Gland Proteins of Sand fly Species from Egypt. Department of Entomology, Faculty of Science, Ain Shams University, Cairo, Egypt.
2. **M.Sc. thesis** (degree awarded on June, 2010) (by Enas H. S. M. Ghallab). Applications of Bioinformatics and Genomics in Studying Mosquito Biology. Department of Entomology, Faculty of Science, Ain Shams University, Cairo, Egypt.
3. **M.Sc. thesis** (degree awarded on Nov., 2010) (by Mona G. Shaalan). Computational Biological and Bioinformatics Approaches for the Identification of Insect microRNAs. Department of Entomology, Faculty of Science, Ain Shams University, Cairo, Egypt.
4. **M.Sc. degree** (Awarded on November, 27, 2014) (by Kashif Munawar, Pakistan) (Student ID No: 431106619). Title: Molecular phylogenetics of some anopheline mosquitoes from Saudi Arabia. Plant Protection, College of Food and Agricultural Sciences, King Saud University, Riyadh, Saudi Arabia.
5. **M.Sc. degree** (Awarded on, Dec., 2016) (by Amnah A. Turkistani, Saudi). Title: (Molecular characterization of *Culex* mosquitoes from the Eastern Province of Saudi Arabia. Biology Dept., Faculty of Science, Dammam University, Dammam, Saudi Arabia.
6. **External advisor, to the PhD thesis** (Awarded, Aug., 2016)(by Enas H. S. M. Ghallab). Title: Molecular and computational characterization of resistance genes of *Culex pipiens* complex mosquitoes. Department of Entomology, Faculty of Science, Ain Shams University, Cairo, Egypt with joint supervision of Prof. Harry M. Savage (Arbovirus Disease Branch, CDC, Fort Collins, CO., USA).
7. **External advisor, to the PhD thesis** (Awarded, Dec., 2016)(by Mona G. Shaalan). Title: Characterization and sequence analysis of vitellogenin gene in the mosquito *Culex pipiens* L. Department of Entomology, Faculty of Science, Ain Shams University, Cairo, Egypt.

Research Grants:

1. **Principal Investigator (PI) and Scientific Leader:**

Project #11-BIO1483-02: "Molecular Genetics and Population Dynamics of *Aedes aegypti* Mosquito Vector of Arboviral Diseases" and funded by the Saudi Strategic National Plan for Science and Technology, Advanced and Strategic Programme, King Saud University, Riyadh, started December, 2012 for 24+6 months (SR 1.86 m).

2. **Principal Investigator (PI) and Scientific Leader:**

Project #09-BIO898-02: "Molecular Characterization of TOR Signaling Pathway in Development of Mosquito Vectors of Infectious Diseases" and funded by the Saudi Strategic National Plan for Science and Technology, Advanced and Strategic Programme, King Saud University, Riyadh, started January, 2011 for 24+9 months (ended October, 2013) (SR 1.8 m).

3. Co- Investigator:

KACST project no (358.11-ت.ك): Spatial distribution and seasonal dynamics of important insects causing myiasis in livestock in the Southern Region of Saudi Arabia with emphasis on molecular identification of the old world screwworm, *Chrysomya bezziana* Villeneuve (Diptera: Calliphoridae), started October, 2012.

4. Co- Investigator and Scientific Leader:

Project: "Molecular Characterization of the Mosquito *Anopheles arabiensis*, a Malaria Vector in the Kingdom of Saudi Arabia", 16 months, from October, 2009, funded by the Center for Excellence in Biotechnology Research (CEBR), King Saud University, Riyadh, Saudi Arabia (SR 100,000).

5. Co- Investigator and Scientific Leader:

Project: "Survey of Mosquito Malaria Vectors in Makkah Al-Mokarrama Region", 1 year, from October, 2009, funded by the Deanship of Scientific Research, King Saud University, Riyadh, Saudi Arabia (SR 50,000).

6. Co- Investigator:

Project: "Molecular Characterization of *Culex* mosquitoes in the Kingdom of Saudi Arabia", Grant # 2012013, Department Biological Sciences, College of Science for Girls, University of Dammam, April 2012-April 2014.

Professional Memberships:

1. The International Society for Infectious Diseases, MA, USA, 2016-present.
2. The American Society of Tropical Medicine and Hygiene (ASTMH) (Member ID: 47658), IL, USA, 2014-present.
3. The American Committee on Arthropod-Borne Viruses (ACAV), ASTMH, USA, 2014-present.
4. The British Society for Parasitology (BSP), UK, 2003-present.
5. The Malaysian Society of Parasitology and Tropical Medicine, 2013-present.
6. The Royal Society of Tropical Medicine and Hygiene (RSTMH), London, UK, 1998-2004.
7. The Entomological Society of Egypt, 1991-present.
8. The Egyptian Society for Biological Control of Pests, Cairo University, Giza, Egypt, 2003-present.
9. The Saudi Society for Agricultural Sciences, King Saud University, Riyadh, 2011-present.
10. Founding member and former Treasurer of the Scientific Society for Development and Research Ethics (SciDRE), Cairo, Egypt, 2007-2014.

Referee of Journal Articles and Research Grants:

1. Reviewed various manuscripts to the Journal of the Saudi Society of Agricultural Sciences, King Saud University, Riyadh and BMC Ecology.
2. Reviewed one research proposal for funding, the King Abdul Aziz University, Jeddah, Saudi Arabia.

Teaching:

a. Disciplines:

The main emphasis is on insects and vector borne-pathogens like malaria parasites.

1. Medical and Veterinary Entomology
2. Vector Ecology and Control
3. Molecular Entomology
4. Molecular and Cellular Parasitology
5. Molecular and Cell Biology
6. Introduction to Genomics
7. Introduction to Bioinformatics, Bioethics, Biosafety.

b. Courses I taught to BSc and MSc students:

Serial	Code	Name	Weeks/hr	Level	Semester	Student no.
I. 2005-2008: Faculty of Science, Ain Shams University (ASU), Cairo, Egypt:						
1.	Ent.305	Principles of Genetic Engineering	12 weeks, 1 hr lecture	3rd yr, Entomology Major	First, for three yrs	15 (7+ 4+4)
2.	Ent.404	Principles of Genetic Engineering	12 weeks, 1 hr lecture	4th yr Entomology Major	First, for three yrs	15 (7+ 4+4)
3.	Ent.402	Molecular Biology	12 weeks, 2 hr lecture + 4 hr practical	4th yr Entomology Major	First, for three yrs	15 (7+ 4+4)
4.	Ent.425	Genetic Engineering and Molecular Biology	12 weeks, 2 hr lecture + 2 hr practical	4th yr, 3 grps Ento-Chem Ento-Biochem Ento-Microbiol	Second, for three yrs	100± (52+20+28)
5.	Ent.403, Selected Topics	Introduction to Genomics and Bioinformatics	4 weeks, 2 hr lecture	4th yr Entomology Major	First, for three yrs	15 (7+ 4+4)
6.	Ent.423, Selected Topics	Introduction to Genomics and Bioinformatics	4 weeks, 2 hr lecture	4th yr, 3 grps Ento-Chem EntoBiochem Ento-Microbiol	First, for three yrs	100± (52+20+28)
7.	Ent.410, Selected Topics	Molecular interactions between the insect vector and disease pathogens	4 weeks, 2 hr lecture	4th yr Entomology Major	Second, for three yrs	15 (7+ 4+4)
8.	Ent.426, Selected Topics	Molecular interactions between the insect vector and disease pathogens	4 weeks, 2 hr lecture	4th yr, 3 grps Ento-Chem Ento-Biochem Ento-Microbiol	Second, for three yrs	100± (52+20+28)
9.	Ent.502	Molecular Biology, advanced	8 weeks, 1 hr lecture	MSc	First, for two yrs	11+10

10.	1991-2005, Demonstrator and Lecture assistant, DoE, FoS, ASU: teaching various practical courses Entomology, to undergraduates and Diploma students.					
II. 2008-present: PLPT, CFAS, KSU, Riyadh.						
1.	PLPT404	Selected topics	12 weeks, 2 credit hr lecture + 2 practical	Level 8 (final yr)	Second, 2011	1
2.	PLPT590	Selected topics	12 weeks, 2 credit hr lecture + 2 practical	M.Sc.	First, 2012	1
3.	PLPT595	Selected topics	12 weeks, 2 credit hr lecture + 2 practical	M.Sc.	First, 2012	1
4.	PLPT546	Selected topics	12 weeks, 2 credit hr lecture + 1 practical	M.Sc.	Second, 2013	TBD
III. 2002-2004: Imperial College London, Division of Cell and Molecular Biology, Department of Life Sciences: Casual teaching (Practical of a total of >50 hr) and exam vigilance.						
1.	Malaria parasite cell biology & control	Parasite Life Strategies	Practical and marking student reports	First year, UGs	2 years	About 50
2.	Cell Biology	Principles of transmission electron microscopy	Practical	First year, UGs	2 years	About 5
3.	Genetics	Genetics	Practical	First year, UGs	1 year	About 50
4.	Cell Biology	Cell Biology	Practical	First year, UGs	1 year	About 50

e. 2017: the Public Health Pests Laboratory of Jeddah Governorate (PHPL), Jeddah, Saudi Arabia.

Introduction to vector-borne diseases (transmission and control), training workshop, employees of Jeddah Municipality 15 days, 30 min. lecture (>450 employee).

Research Interests:

1. Ecology and control of insect vectors of diseases (mosquitoes & sand flies).
2. Molecular identification and phylogenetics of insect vectors of diseases (mosquitoes).
3. Functional Genomics: The molecular basis regulating mosquito lifespan and fecundity.
4. Molecular and cellular biology of vector-parasite interactions (mosquito-malaria parasites).
5. Bioinformatics: microRNAs prediction & development of an entomologic DB for teaching.

6. Bioethics. Study the ethical, legal, social and (religious) implications (ELSI) for the application of genomics and bioinformatics, especially the genetic modification of mosquitoes to control diseases as malaria.

Research Skills:

Good practical knowledge of a broad range of basic and advanced molecular, cellular, parasitological and entomological techniques, including:

1. Gene silencing and dsRNA-interference (dsRNAi).
2. PCR, real-time PCR, gene cloning and gene knock out.
3. Light, immuno-fluorescence and immuno-transmission electron microscopy.
4. Bioinformatics analytical methods of gene and protein sequences, major genomic data bases.
5. Susceptibility bioassays of disease vectors (mosquitoes and sand flies) to insecticides and detection of insecticide resistance genes using molecular (PCR) methods.
6. Photo-editing programmes like Adobe Photoshop, ImageReady and Paint.

International and National Cooperation:

1. Prof. George K. Christophides, Division of Cell & Molecular Biology, Department of Life Sciences, Imperial College London, UK.
2. Dr. Janet Midega, KEMRI, Kenya, Division of Cell & Molecular Biology, Department of Life Sciences, Imperial College London, and currently the University of Oxford, UK.
3. Prof. Jeffrey R. Powell, Department of Ecology and Evolutionary Biology, Yale University, USA.
4. Dr Yasser M. Abdel-Latif, Computer Science, Faculty of Science, Ain Shams University, Cairo, Egypt.

Scholarships and Awards:

a. Scholarships:

1. A scholarship for the award of PhD degree from the Islamic Development Bank (IDB), Jeddah, Saudi Arabia, through the Merit Scholarship Programme in High Technology, 1999-2004. The PhD degree and DIC were obtained from Imperial College London, the United Kingdom.

b. Awards and Prizes:

1. A Certificate of Appreciation for top graduate students of Ain Shams University, Egypt, August, 1991.
2. A Certificate of Appreciation for top graduate students of the Faculties of Science of Egypt, Jan., 1992.
3. Ain Shams University Prize for excellent internationally-published research papers, 2008/2009.
4. A Certificate of Appreciation for departmental training efforts in Molecular Biology and Bioinformatics, from the Plant Protection Department, College of Food & Agricultural Sciences, King Saud University, 2009.

5. A Certificate of Appreciation for members of QAA Committee, Plant Protection Department, College of Food & Agricultural Sciences, King Saud University, 2010-2012.

Academic and Professional Activities:

a. Invited Lectures (Speaker):

1. Lecturer in a training workshop on basic biology and control of disease vectors sponsored by the WHO/EMRO in Cairo and took place in the Research and Training Centre on Vectors of Diseases, Ain Shams University, February 2005, Cairo, Egypt.
2. Lecturer in a training workshop on basic biology and control of disease vectors sponsored by the WHO/EMRO in Cairo and took place in the Research and Training Centre on Vectors of Diseases, Ain Shams University, June-September, 2006, Cairo, Egypt.
3. Guest speaker; a lecture was given on "Malaria and Human Development in Africa", the First IFMSA International Workshop on Malaria, July 28-31, 06, Cairo, Egypt.
4. Three lectures in the Department of Entomology Cultural activities, Faculty of Science, Ain Shams University, on: Genomics and Bioinformatics in Entomology Research, Mosquito TOR Pathway Genes and Insect microRNAs, Cairo, Egypt, 2006-2008.
5. An invited speaker with a lecture on "Molecular Approaches in Insect Pest Control", in a workshop on "Irradiation and Integrated Pest Control Programmes", organized by the Arabic Atomic Energy Authority and the Egyptian Atomic Energy Authority, 1-6 March, 2008, Cairo, Egypt.
6. A lecture entitled: "Introduction to Insect Genomics & Applications, at the Plant Protection Department, College of Food and Agricultural Sciences, Riyadh, King Saud University, Tuesday, 22nd March, 2011, KSU, Riyadh, Saudi Arabia.
7. A presentation entitled "The Target-of Rapamycin (TOR) Signaling Pathway in Malaria Mosquito Development" of participant in the Functional Genomics and Systems Biology course (>80 hrs contact time), 13-22 June 2011, the Wellcome Trust Advanced Courses Laboratory, Wellcome Trust Sanger Institute, Wellcome Trust Genome Campus, Cambridge, UK.
8. A lecture entitled malaria parasite IMC1 proteins and the Target-of Rapamycin Signalling Pathway in Malaria Mosquito Development" given during academic visit to the laboratory of Prof. George Christophides, Division of Cell & Molecular Biology, Imperial College London, UK. July 20, 2011.
9. A lecture entitled "An overview on structure and mission of the Public Health Pests Laboratory of Jeddah Governorate (PHPL), Saudi Arabia with emphasis on vector-borne diseases, the Municipality of Jeddah Governorate, Saudi Arabia, March, 16th, 2015.
10. A lecture entitled "An overview on structure and mission of the Public Health Pests Laboratory of Jeddah Governorate (PHPL), Saudi Arabia with emphasis on vector-borne diseases, the Municipality of Jeddah Governorate, Saudi Arabia, Jan., 25th, 2016.
11. A lecture entitled "Arboviral diseases in the Arabian Peninsula: epidemiology, transmission and control at the Third Symposium on Surveillance-Response Systems Leading to Tropical Disease Elimination, the National Institute of Parasitic Diseases, Chinese Center for Disease Control and Prevention, Shanghai, People's Republic of China, 16-17 June 2016 (Delivered by Dr E. Tambo due to inability to travel to attend the meeting).
12. A lecture entitled "An overview on structure and mission of the Public Health Pests Laboratory of Jeddah Governorate (PHPL), Saudi Arabia with emphasis on vector-borne

diseases: During the training workshop organized by the Municipality of Jeddah Governorate, 15 days, Feb15-March 9, 2017.

13. A lecture entitled "Update on the Arboviral Diseases in the Arabian Peninsula: epidemiology, challenges and opportunities for prevention and control" (2017). The 14th Symposium on Arbovirus Surveillance and Mosquito Control Workshop, Anastasia Mosquito District Control, St. Augustine, FL, USA, March 28-30, 2017.

b. Academic research and training visits:

1. Researcher training visit on human malaria *Plasmodium falciparum* at the Istituto Superiore di Sanita (ISS), Rome, Italy with Dr. Pietro Alano, one month, November-December, 1998.
2. Academic visit to the laboratory of Prof. George Christophides, Division of Cell & Molecular Biology, Imperial College London, UK. June 22-August, 8, 2011.
3. Academic visit to the laboratory of Prof. George Christophides, Division of Cell & Molecular Biology, Imperial College London, UK. May 22-July 23, 2012.
4. Academic visit to the laboratory of Prof. George Christophides, Division of Cell & Molecular Biology, Imperial College London, UK. May 17-July 23, 2013.

c. Training Workshops (Organizer and Trainer):

1. The intensive workshop on Principles of Molecular Biology and Bioinformatics: Applications in Entomology, the Unit of Insect Vectors of Human and Animal Diseases, Plant Protection Department, College of Food and Agricultural Sciences, King Saud University, June, 16-19, 2009, Riyadh, Saudi Arabia.
2. Genomics and Bioinformatics of Insect Vectors of Infectious Diseases (Vectorbase) in collaboration with Prof. George K. Christophides (Imperial College London) and Vectorbase team, held at King Saud University, March, 24-27, 2014, Riyadh, Saudi Arabia.
3. Trainer, and a lecture given: Introduction to Laboratory BioSafety, in the Workshop on Chemical Safety and Biosafety in Laboratories (الدورة التدريبية السلامة فى المختبرات الكيميائية والحيوية), College of Food and Agricultural Sciences, King Saud University, Riyadh, 22.2.2012/ 30.3.1433.
4. Trainer, and a lecture given: Introduction to Laboratory BioSafety, in the Workshop on Chemical Safety and Biosafety in Laboratories (الدورة التدريبية السلامة فى المختبرات الكيميائية والحيوية), College of Food and Agricultural Sciences, King Saud University, Riyadh, 22.4.2013/ 12.6.1434.
5. Member of the organizing committee of the international workshop on surface chemistry and petrochemicals, sponsored by the UNIDO, UN, Geneva, ICS, Trieste, Italy and the ESSCC, Egypt, November, 1997, Cairo, Egypt.
6. Member of the organizing committee of the Ain Shams University Workshop on Research Ethics Committee, January 25th, 2007, Cairo, Egypt.

d. Conferences and Meetings (Oral Presentations):

1. An oral presentation: entitled “A cytoskeletal protein essential for malaria sporozoite infectivity”, at the annual scientific meeting of the Wellcome Trust Centre for Clinical Medicine, Imperial College London. UK. December, 2003.
2. An oral presentation entitled “Molecular phylogenetics of culicine mosquitoes from the Oriental and Afrotropical zoogeographic zones” (Delivered by Mr K. Munawar, due to inability to travel to attend the meeting). The 12th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases (MEEGIDXII), December 11-14, 2014, the Royal River Hotel, Bangkok, Thailand.

e. Conferences and Meetings (Poster Presentations):

1. A poster presentation: entitled “Characterization of *Plasmodium berghei* inner membrane complex protein 1 (PbIMC1)”. The British Society for Parasitology (BSP), spring conference on Malaria, Manchester, UK, April, 2003.
2. A poster presentation: entitled "Characterization of TOR Signalling Pathway in Malaria Mosquito Development". The Cluster meeting of the European Commission FP6 BioMalPar-Network of Excellence project, Oxford University, UK, December 14-15, 2006. I was invited as a new member of the network.
3. A poster presentation entitled: "Molecular Characterization of TOR Signaling Pathway in Development of Mosquito Vectors of Infectious Diseases", as a Project Principal Investigator in the workshop of the “National Plan for Science, Technology and Innovation’ in Saudi Arabia, King Abdul-Aziz City for Science and Technology (KACST) and King Saud University (KSU), Sunday, 20th March, 2011, KSU, Riyadh, Saudi Arabia.
4. A poster presentation entitled: "Functional characterization of *Anopheles stephensi* mosquito target-of-rapamycin and S6 kinase proteins, The British Society for Parasitology (BSP), spring conference on Malaria, including the Trypanosomiasis and Leishmaniasis Seminar, 2-5 April 2012, Strathclyde University. Glasgow, UK.
5. A poster presentation entitled: "Functional characterization of *Anopheles stephensi* mosquito target-of-rapamycin and S6 kinase proteins, the 8th Annual BioMalPar-EVIMalaR Conference, Biology and Pathology of the Malaria Parasite, 14-16 May 2012, EMBL Heidelberg, Germany.
6. A poster presentation entitled: "Functional characterization of *Anopheles stephensi* mosquito target-of-rapamycin and S6 kinase proteins, the Genomic Epidemiology of Malaria 2012 Conference, the Wellcome Trust Sanger Institute, Wellcome Trust Genome Campus, 10-14 June 2012, Cambridge, UK.
7. A poster presentation entitled: “Molecular and phylogenetic studies on culicine mosquito vectors of infectious diseases in the Arabian Peninsula”. The British Society for Parasitology (BSP), spring conference on Malaria, including the Trypanosomiasis and Leishmaniasis Seminars, 8-11 April 2013, Bristol University, Bristol, UK.
8. A poster presentation entitled: “Bionomics and population genetics of mosquito dominant vector species from Saudi Arabia”. The 9th Annual BioMalPar-EVIMalaR Conference, Biology and Pathology of the Malaria Parasite, 13-15 May 2013, EMBL Heidelberg, Germany.
9. A poster presentation entitled “Bionomics and population genetics of mosquito dominant vector species from Saudi Arabia: An overview of mosquito vector research”. The Wellcome Trust- Imperial College Centre for Global Health Research, Inaugural meeting September, 15-17, 2013, Imperial College London, UK.
10. A poster presentation entitled “Bionomics and phylogenetics of the dengue vector *Aedes aegypti* from the Arabian Peninsula”. The American Society of Tropical Medicine and Hygiene 63rd Annual Meeting, November 2-6, 2014, New Orleans, Louisiana, USA.

11. A poster presentation entitled “Molecular phylogenetics of mosquitoes from the Oriental and Afrotropical zoogeographic regions”. The American Society of Tropical Medicine and Hygiene 63rd Annual Meeting, November 2-6, 2014, New Orleans, Louisiana, USA.
12. A poster presentation entitled “Molecular phylogenetics of the dengue vector *Aedes aegypti* from the Arabian Peninsula”. The 12th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases (MEEGIDXII), December 11-14, 2014, the Royal River Hotel, Bangkok, Thailand.
13. A poster presentation (#20.96) entitled “*Aedes aegypti* mosquito vector of dengue in the Arabian Peninsula: ecology, phylogenetics and control”, IMED 2016, conference to be held in Vienna, Austria, November 4 to 7, 2016.
14. A poster presentation (#42), Ernest Tambo, Adama Kazienga, **Emad I.M. Khater** (2017). Toward integrated dengue surveillance and early-warning system and indicators for evidence programs and resources allocation in Saudi Arabia. The second International Saudi Health Informatics Conference (ISHIC 2017), King Saud University, Riyadh, Saudi Arabia, April, 16-20, 2017.

f. Conferences and Meetings (Attendee and Participant):

1. Attendee: The Malaria Centenary Conference, Rome, Italy, November, 1998, partially funded by the RSTMH (the Royal Society of Tropical Medicine and Hygiene) young fellows, London, UK.
2. Attendee: The Linnaean Society of London, Autumn Symposium with the British Society of Parasitology on The molecular ecology and epidemiology of parasites, London, UK, November 7th, 2003.
3. Attendee: The First Arabic Congress on Pest Control, Cairo University, Giza, Egypt, April, 2004.
4. Attendee: Myosin, muscle and motility, Discussion meeting, The Royal Society, London, UK, May 17-18, 2004.
5. Attendee: The Fourth MIM/TDR-WHO Pan-African Malaria conference, 13-18 November, 2005, Yaoundé, Cameroon.
6. Attendee: The first meeting on Research Ethics, Organized by the WHO/EMRO (Regional Office for the Eastern Mediterranean), ISESCO, MERETI, UNESCO, University of Maryland, USA August 12-14, 2008, Cairo.
7. Attendee: The First International Conference in Biotechnology: Towards Knowledge-Based Economy. Organized by the Centre of Excellence in Biotechnology, King Saud University, Feb. 16-18, 2009, King Faisal Cultural Centre, Riyadh, Saudi Arabia.
8. Attendee: The Second National Information Technology Symposium, Organized by the Centre of College for Computers and Information, King Saud University, March 7-11, 2009, the Intercontinental Hotel, Riyadh, Saudi Arabia.
9. Attendee: The International Technology Incubation Forum-2009, Organized by the King Abdul-Aziz City for Science and Technology (KACST), March., 16-17, 2009, the Four Seasons Hotel, the Kingdom Centre, Riyadh, Saudi Arabia.
10. Attendee: The Advanced Technologies Forum-2009, Organized by the King Abdul-Aziz City for Science and Technology (KACST), April, 26-28, 2009, the King Faisal Conference Halls, Riyadh, Saudi Arabia.
11. Attendee: The Affymetrix Medical Genomics Research Conference and workshop, King Faisal Specialist Hospital & Research Center, Riyadh, Saudi Arabia, 23/01/2010.
12. Active Participant of the 13th Arbovirus surveillance and mosquito control workshop and the NE project annual meeting at the Anastasia Mosquito Control District (AMCD) facility, St. Augustine, FL, USA, March 29-31, 2016.

g. Professional Training (Trainee):

Malaria, Molecular Biology and Bioinformatics:

1. A workshop on malaria bioinformatics, MR4/ATCC, Manassas, Virginia, USA, April, 2001.
2. The S* Star Alliance Bioinformatics Online Course, coordinated by the National University of Singapore (NUS), Singapore, 8 weeks, June-August 2005.
3. The MIM/TDR workshop on Malaria Vectors (linking laboratory to field research), 10-13 November. 2005, Yaoundé, Cameroon. A presentation was given on: "Malaria sporozoite cytoskeletal proteins and infectivity".
4. Biomedical Genomics, Affymetrix, Gulf Scientific, King Fahd Medical Centre, February 2010, Riyadh, Saudi Arabia.
5. Affymetrix Microarrays, Centre for Excellence in Biotechnology Research, King Saud University, March, 2010, Riyadh, Saudi Arabia.
6. Bioinformatics workshop, College of Medicine, Centre for Excellence in Biotechnology Research, King Saud University, December, 2010, Riyadh, Saudi Arabia.
7. Attended the Functional Genomics and Systems Biology, intensive course (>80 hrs contact time), 13-22 June 2011, Held at the Wellcome Trust Advanced Courses Laboratory, Wellcome Trust Sanger Institute, Wellcome Trust Genome Campus, Cambridge, UK.
8. The workshop on "Working with Parasite Genomic Resources", 12-14 May 2012, EMBL Heidelberg, Germany.
9. The workshop on "Working with Parasite Genomic Resources", 11-13 May 2013, EMBL Heidelberg, Germany.

Biosafety Training:

1. Training course on Risk Assessment of Work with Biological Agents, June 19th, 2002, Imperial College London, UK.
2. Training course on Health and Safety, June 26th, 2002, Imperial College London, UK.

Bioethics Training:

1. Workshop on Research Ethics Committee, Cairo, 17th February 2005 at the Research and Training Centre on Vectors of Diseases, Ain Shams University, MOHP, Egypt and University of Maryland, USA.
2. Workshop on Research Ethics Committee, October 28th, 2006, Faculty of Science, Ain Shams University, Cairo, Egypt.
3. The Ain Shams University Workshop on Research Ethics Committee, January 25th, 2007, Cairo, Egypt (and organizer).
4. A workshop on Research Ethics Review Process, Organized by the WHO/EMRO (Regional Office for the Eastern Mediterranean), ISESCO, MERETI, UNESCO, University of Maryland, USA August, 11th, 2008, Cairo, Egypt.

Faculty Leadership Development Programme (FLDP) Training (Ain Shams University):

2. A workshop on use of Technology in Teaching, the FLDP, Ain Shams University, February 11-13, 2008, Cairo.
3. A workshop on Time Management and Work Stress, the FLDP, Ain Shams University, June 25-28, 2008, Cairo.
4. A workshop on Conference Organization, the FLDP, Ain Shams University, Feb., 21-23, 2009, Cairo, Egypt.
5. A workshop on Quality Assurance and Accreditation (QAA) in Education and Research, the FLDP, Ain Shams University, Feb., 24-26, 2009, Cairo, Egypt.
6. A workshop on Credit Hours System, the FLDP, Ain Shams University, August 31-September 2, 2010, Cairo, Egypt.
7. A workshop on Management of Research Teams, the FLDP, Ain Shams University, September, 4-6, 2010, Cairo, Egypt.

Faculty Leadership Development Programme (FLDP) Training (King Saud University):

1. A workshop on Building a World-Class Program organized by the Deanship for Skills and Development, King Saud University and El-Emam University, 15-17/4/1430-11-13/4/2009, InterContinental Hotel, Riyadh.
2. A workshop on Quality Assurance Applications in Higher Education, King Saud University, 1-2/6/1430, 25-26/5/2009, Riyadh.
3. A workshop entitled: Principles of Quality Management, the Deanship of Quality, King Saud University (KSU), Monday, 13-15.6.2009/ 20-22.6.1430, Riyadh, Saudi Arabia.
4. A workshop on Quality Culture in Higher Education and Impacting Excellence, by Prof. Mohammed Zairi, Director, ECBPM, 6/11/1430, 25/10/2009, King Saud University, Riyadh.
5. A workshop on Outcome-Based Learning, organized by the Deanship for Skills and Development, King Saud University, College of Agriculture, 14-15/11/1430, 2-3/11/2009.
6. A workshop on Quality Culture in Higher Education, by Dr. Tareq M. Rasheed, through the College activities to effect r the Quality process, College of Agriculture, King Saud University, Riyadh, (6 hrs) 1/2/1431-16/1/2010.
7. A workshop on the Strategic Research Plan of the College of Food and Agricultural Sciences, King Saud University, Riyadh, 18/2/1431-2/1/2010.
8. A workshop entitled: Starting a Biotechnology Business (4hrs) at the BADIR for Biotechnology Incubator, KACST, held at the King Fahd Medical City, February 2010, Riyadh.
9. A workshop entitled: Sessions in Health Biotechnology and Bioinformatics: Methods and Design (5hrs), College of Medicine, King Saud University, Riyadh, May 8, 2010.
10. The EndNote 5 workshop, the Deanship for Skills, King Saud University, November, 2010.
11. A workshop entitled: An Introduction to Intellectual Property for Biotechnologists (4hrs) at the BADIR for Biotechnology Incubator, KACST and Oxford Innovations, held at the King Fahd Medical City, December 19, 2010, Riyadh.
12. A workshop entitled: Principles of Quality Management, the Deanship of Quality, King Saud University (KSU), Monday, 17.1.2011/ 1.2.1432, Riyadh, Saudi Arabia.

13. A workshop on Evaluation of Research Chairs, the Research Chairs Programme, Deanship of Graduate Studies and Research, King Saud University (KSU), March 5-6, 2011, 30.3-1.4/1432, KSU, Riyadh, Saudi Arabia.
14. A workshop "Get Read, Publish with Springer", organized by the National Plan for Science, Technology and Innovation, King Abdul-Aziz City for Science and Technology (KACST) and King Saud University (KSU), Monday, March 21st, 2011, KSU, Riyadh, Saudi Arabia.

Departmental Committees and Professional Activities:

1. Chairman of the QAA Committee of the Public Health Pests Laboratory of Jeddah Governorate (PHPL), Jeddah, Saudi Arabia. 2017-present.
2. Member of the Quality Assurance and Accreditation (QAA) Committee, PLPT, CFAS, KSU, for the National Commission for Academic Accreditation & Assessment (NCAAA). Ongoing.
3. Member of the QAA Committee, PLPT, CFAS, KSU. Accredited by the Agricultural Institute of Canada (AIC).
4. Formerly, Member of the QAA Committee, 2005-2008, DoE, FoS, ASU, Cairo, Egypt.
5. Formerly, Vice-Director, Management Information Systems Project (MIS) of Ain Shams University, March-October, 2008, Cairo, Egypt.
6. Formerly, Member of the Main Examination Committee, 2005-2008, DoE, FoS, ASU, Cairo, Egypt.
7. Formerly, Member of the Cultural Committee, 2005-2008, DoE, FoS, ASU, Cairo, Egypt.

General Skills:

1. Very good working professional and academic English language: writing, speaking, reading and listening.
2. Some knowledge of Italian and French.
3. Very good computer skills: Word, PowerPoint, Excel, Adobe Photoshop.
4. Good skills in writing research proposals for international funding and establish good links with internationally-recognized scientists.

List of References:

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