



NOMINEE DETAILS AND SUMMARY OF EXPERTISE: AUTHORS FOR DIAGNOSTIC PROTOCOLS

This template must be completed for all nominees and returned to the Secretariat together with the candidate's curriculum vitae.

| PERSONAL DETAILS | |
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| Name | Ahmed Mahmoud Ahmed Mahmoud ISMAIL |
| Country / organisation | Egypt – Plant Pathology Research Institute - Agricultural Research Centre |
| Current position | Researcher |
| Contact details | Address: 9 Gama Street, Giza, Egypt |
| | Telephone number: +201119133165 |
| | Fax: |
| | Email address: ma.ah.ismail@gmail.com |
| SPECIFIC EXPERTISE REQUIRED (COMPLETE ALL ROWS) | |
| Diagnostic protocol for which the expert is being nominated (multiple options are possible): | <input checked="" type="checkbox"/> <i>Amaranthus palmeri</i> (2019-006) <input checked="" type="checkbox"/> <i>Solanum rostratum</i> (2019-007) <input checked="" type="checkbox"/> Pospiviroid species (except <i>Potato spindle tuber viroid</i> (DP 7)) (2018-031) <input checked="" type="checkbox"/> <i>Acidovorax avenae</i> subsp. <i>citrulli</i> (2018-032) <input checked="" type="checkbox"/> <i>Moniliophthora roreri</i> (2019-005) <input checked="" type="checkbox"/> <i>Meloidogyne mali</i> (2018-019) <input checked="" type="checkbox"/> <i>Cronartium comandrae</i> (2018-015) |
| Specific expertise in taxonomy and/or molecular diagnostics of the relevant pest | <ul style="list-style-type: none"> • Molecular characterization of fungal and bacterial pests based on various DNA-based techniques. • Taxonomy and nomenclature of the new species of <i>Lasiodiplodia egyptiaca</i> in 2012 at CBS-KNAW Fungal Biodiversity Centre, Utrecht, The Netherlands. The new species was deposited in the Mycobank database with number: MycoBank MB564516. • Detection and characterization of other fungi i.e., <i>Verticillium</i> and <i>Phytophthora</i> using Real-Time PCR. • Sequencing and phylogenetic analysis of other fungi such i.e., <i>Alternaria</i>, <i>Lasiodiplodia</i>, <i>Curvularia</i>, <i>Nefusicoccum</i>, <i>Phytophthora</i> and <i>Colletotrichum</i>. • Morphological characterization of Bacteria and fungi based on their structures using different kinds of microscopes. • Trained on isolation and identification of <i>Meloidogyne</i> spp. at National Research Council, Bari, Italy during the Multi-disciplinary training program science for Diplomazia of the ministry of foreign affairs of Italy • Description and nomenclature of new species of <i>Neopestalotiopsis egyptiaca</i> and deposited in Mycobank database with reference number MycoBank MB813837. |
| Practical expertise related to the pest (detection, identification, isolation etc.) | <ul style="list-style-type: none"> • Conducting field survey work to identify rates of infestation and diseases severity and analyse this data. • More than 10 years of experience in detection and diagnosis of fungi and bacterial diseases in the field. |



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| | <ul style="list-style-type: none"> More than 12 years of experience in isolation, purification and identification of relevant pests on different growing media i.e., PDA, NA, CMA, etc. |
| Expertise with quarantine diagnostics, including using diagnostic protocols for regulated pests | <ul style="list-style-type: none"> Developed new protocol method for sporulating some fungal pathogens under laboratory conditions for identification. Contribute to the development of the annual work plan, track performance and maintain records. I have been in collaboration with Diagnostic Laboratory for Plant Quarantine Pathogens (Agriculture Research Centre, Egypt) to evaluate and optimize the testing protocols for robust diagnosis. |
| Expertise with drafting diagnostic protocols (e.g. regional diagnostic protocols) | Participation in preparing Red-Palm weevil (RPW) diagnostic protocol (Mediterranean Region). |
| Expertise with development of novel diagnostic methods | Optimization of protocols for diagnosis of some fungal pathogens (Kindly, review my publications below). |
| Elements demonstrating a strong working knowledge of English | <ul style="list-style-type: none"> Participating in international collaborative projects with English as a working language. Participation in international conferences and workshops in English language. English was the language of studying and communication while my Post-Graduate Diploma, Master of science and PhD in Italy and Netherlands along 6 year. |

PROFESSIONAL BACKGROUND - SUMMARY OF WORK EXPERIENCE

(Add more rows as necessary. Do not include full details here, details can be included in the CV)

| | Year started | Year finished | Job title | Organisation | Key duties (list only the duties most relevant to the nomination) |
|---|---------------------|----------------------|----------------------|--|---|
| 1 | 2018 | 2020 | Technical Consultant | Palladium Limited Company, Riyadh, Kingdom of Saudi Arabia | <ol style="list-style-type: none"> Improving the levels of knowledge and skills among farmers and their workers in the visual detection and application control techniques for pests. Define the most suitable method to treat the infection and to follow up on the implementation of this. Transfer knowledge to farmers on the risks of the purchase and movement of seedlings, plants and trees from infected areas and the need for agricultural quarantine regulations. Ensure all consultancy and advisory activities implemented by the Palladium team in the crop protection sector in a timely manner and of a high standard. Prepare periodic reports and undertake other related duties that may be reasonably requested. Contributing in preparing guidelines and regulations for KSA quarantine to promote Date palm tree transportation. |



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| 2 | 2017 | 2018 | Technical Consultant | Technical Office of Minister of Agriculture and Land Reclamation, Giza, Egypt | <ol style="list-style-type: none"> 1. Promote the implementation of Good & Safe Practices across the agriculture sector. 2. Guide, assist and subsequent monitoring of office staff. 3. Contact with local and regional government university and private research institutions as well as commercial operations. 4. Prepare timely and accurate reports of different tasks. 5. Contribute to the development of the regional annual work plan, track performance and maintain records. 6. Prepare periodic reports and undertake other related requested duties . |
| 3 | 2013 | 2018 | Researcher | Plant Pathology Research Institute, Agricultural Research Centre, Giza, Egypt | <ol style="list-style-type: none"> 1. Carry out field survey work to identify rates of infestation and the infested trees at farms. 2. Conduct trials and evaluations of any new or alternate technologies that may improve the effectiveness of control of RPW. 3. Provision of consultancy and training services to farmers. 4. Following up with farmers on the adoption of better agricultural management practices, such as irrigation, fertilization, removal of waste, farm hygiene, correct pruning. |
| 4 | 2014 | 2015 | Post-doctor | National Research Council, Bari, Italy | <ol style="list-style-type: none"> 1. Identification and taxonomy of <i>Alternaria alternata</i> fungus. 2. Optimization of PCR protocol for amplification of certain isolates. 3. DNA sequencing and phylogenetic analysis of the fungus. |
| 5 | 2011 | 2012 | PhD visitor | CBS-KNAW Fungal Biodiversity Centre, Utrecht, The Netherlands. | <ol style="list-style-type: none"> 1. Conducting, morphological, molecular discrimination and taxonomy of certain fungi such as, <i>Nefusicoccum</i>, <i>Lasiodiplodia</i> and <i>Colletotrichum</i>, through different advanced techniques. 2. Description and reporting new species, <i>Lasiodiplodia egyptiacea</i> in Egypt, and deposited it in the Mycobank database with number: MycoBank MB564516. |

RELEVANT EDUCATION AND TRAINING

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| Education/ Academic qualifications/ Professional training (list only) | Education and academic qualifications: <ul style="list-style-type: none"> • Bsc., in Plant Pathology. • Post-graduate Diploma, Integrated pest management. • Msc. in identification of <i>Phytophthora</i> spp. and <i>Verticillium dahliae</i>, the causal agents of olive root rot and wilt. |
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| those relevant to the nomination) | <ul style="list-style-type: none"> PhD, Taxonomy and molecular characterization of fungal pathogens of mango in Italy and in Egypt. Post-doctor, Taxonomy and molecular characterization of <i>Alternaria alternata</i> Professional Training: Multi-disciplinary training program science for Diplomazia of the ministry of foreign affairs of Italy. |
| Other language skills | <ul style="list-style-type: none"> English Italian |
| PUBLICATIONS | |
| List publications and keynote speaking engagements (list only those relevant to the nomination and do not include copies of publications) | <ol style="list-style-type: none"> 1. El Gobashy S.F, Mikhail W.Z.A., Ismail A.M, Zekry A, Moretti A, Susca A, Soliman A.S. (2018). Phylogenetic, toxigenic and virulence profiles of <i>Alternaria</i> species causing leaf blight of tomato in Egypt. <i>Mycological Progress</i>, 17(11): 1269–1282. 2. S. Elanainy, Y. Ahmed, M. Soliman, A. Ismail, A. Tohamy, E. Randall, D. Cooke (2016). A shift in the population of <i>Phytophthora infestans</i> on Egyptian potato crops. <i>Phytopathology</i>, pp ,106:140. 3. A.M. Ismail, T.A. Essa, S.M. Kamel, G. Perrone (2016). FIRST REPORT OF <i>CURVULARIA SPICIFERA</i> CAUSING LEAF SPOT ON TOMATO (<i>SOLANUM LYCOPERSCIUM</i> L.) IN EGYPT. <i>Journal of Plant Pathology</i>, 97 (1) 167-171. 4. G. Perrone, D. Magistà, A.M. Ismail (2016). FIRST REPORT OF <i>COLLETOTRICHUM KAHAWAE</i> subsp. <i>CIGGARO</i> ON MANDARIN IN ITALY. <i>Journal of Plant Pathology</i>, 97 (1), 167-171. 5. P.W. Crous, M.J. Wingfield, J.J. Le Roux, D.M. Richardson, D. Strasberg, R.G. Shivas, P. Alvarado, J. Edwards, G. Moreno, R. Sharma, M.S. Sonawane, Y.P. Tan, A. Altés, T. Barasubiye, C.W. Barnes, R.A. Blanchette, D. Boertmann, A. Bogo, J.R. Carlavilla, R. Cheewangkoon, R. Daniel, Z.W. de Beer, M. de Jesús Yáñez-Morales, T.A. Duong, J. Fernández-Vicente, A.D.W. Geering, D.I. Guest, B.W. Held, M. Heykoop, V. Hubka, A.M. Ismail, et al. (2015) <i>Fungal Planet</i> description sheets: 371–399. <i>Persoonia</i>, 35:264-327. 6. A.M. Ismail, G. Cirvilleri, T. Yaseen, F. Epifani, G. Perrone and G. Polizzi (2015) Characterization of <i>Colletotrichum</i> species causing anthracnose disease of mango in Italy. <i>Journal of Plant pathology</i>, 97 (1): 167-171. 7. A. M. Ismail, G. Cirvilleri, G. Polizzi, P. W. Crous, J. Z. Groenewald and L. Lombard (2013) Characterization of <i>Neofusicoccum</i> species causing mango die back in Italy. <i>Journal of Plant Pathology</i>, 95 (3): 549-557. 8. A.M. Ismail G. Cirvilleri and G. Polizzi (2013). Characterization and pathogenicity of <i>Pestalotiopsis uvicola</i> and <i>Pestalotiopsis clavispora</i> causing grey leaf spot of mango (<i>Mangifera indica</i> L.) in Italy. <i>European Journal of Plant Pathology</i>, 135:619–625. 9. A. M. Ismail, G. Cirvilleri, G. Polizzi, P. W. Crous, J. Z. Groenewald and L. Lombard (2012). <i>Lasiodiplodia</i> species associated with dieback disease of mango (<i>Mangifera indica</i>) in Egypt. <i>Australasian Plant Pathology</i>, 41(6): 649-660. 10. Hawksworth DL, Crous PW, Redhead SA, Reynolds DR, Samson RA, Seifert KA, Taylor JW, Wingfield MJ, Abaci Ö, Aime C, Asan A, Bai F-Y, Beer ZW de, Begerow D, Berikten D, Boekhout T, Buchanan PK, Burgess T, Buzina W, Cai L, Cannon PF, Crane JL, Damm U, Daniel H-M, Diepeningen AD van, Druzhinina I, Dyer PS, Eberhardt U, Fell JW, Frisvad JC, Geiser DM, Geml J, |



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| | <p>Glienke C, Gräfenhan T, Groenewald JZ, Groenewald M, Gruyter J de, GuéhoKellermann E, Guo L-D, Hibbett DS, Hong S-B, Hoog GS de, Houbraken J, Huhndorf SM, Hyde KD, Ismail A, Johnston PR, Kadaifciler DG, Kirk PM, Kõljalg U, Kurtzman CP, Lagneau P-E, Lévesque CA, Liu X, Lombard L, Meyer W, Miller A, Minter DW, Najafzadeh MJ, Norvell L, Ozerskaya SM, Öziç R, Pennycook SR, Peterson SW, Pettersson OV, Quaedvlieg W, Robert VA, Ruibal C, Schnürer J, Schroers H-J, Shivas R, Slippers B, Spierenburg H, Takashima M, Taşkın E, Thines M, Thrane U, Uztan AH, Raak M van, Varga J, Vasco A, Verkley G, Videira SIR, Vries RP de, Weir BS, Yilmaz N, Yurkov A, Zhang N. (2011). The Amsterdam Declaration on Fungal Nomenclature. IMA Fungus, 2:105–112.</p> |
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