



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	
Name	Emilio Stefani
Country / organisation	University of Modena and Reggio Emilia
Current position	Professor and Chair of Plant Pathology
Contact details	Address: via Amendola 2, 42122 Reggio Emilia (Italy) Telephone number: +39 0522 522062, Mobile: +39 339 8759502 Fax: // Email address: emilio.stefani@unimore.it
SPECIFIC EXPERTISE REQUIRED (COMPLETE ALL ROWS)	
Diagnostic protocol for which the expert is being nominated (multiple options are possible):	<input type="checkbox"/> <i>Amaranthus palmeri</i> (2019-006) <input type="checkbox"/> <i>Solanum rostratum</i> (2019-007) <input 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 type="checkbox"/> <i>Moniliophthora roreri</i> (2019-005) <input type="checkbox"/> <i>Meloidogyne mali</i> (2018-019) <input type="checkbox"/> <i>Cronartium comandrae</i> (2018-015)
Specific expertise in taxonomy and/or molecular diagnostics of the relevant pest	Author of the EPPO datasheet on <i>Acidovorax citrulli</i> ; co-author of the detection protocol on <i>A. citrulli</i> ; coordinator of the EUPHRESKO project DIP-ACIT "Consensus detection and identification protocol for <i>Acidovorax citrulli</i> on cucurbit seeds".
Practical expertise related to the pest (detection, identification, isolation etc.)	Development of a new diagnostic tool using DNA barcoding to identify quarantine organisms in support of plant health in the framework of the EU-QBOL project, Grant Agreement N. 226482. Detection, epidemiology and control of <i>A. citrulli</i> in the framework of the EU-TESTA project: "Development of seed testing methods for pests and pathogens of plant health concern". Grant Agreement N. 311875. Multiannual activity as Head of a lab for the detection of <i>A. citrulli</i> in seeds. Trainer of inspectors and lab technicians for the accreditation of labs involved in detection and identification of regulated bacteria (RPPO contract).
Expertise with quarantine diagnostics, including using diagnostic protocols for regulated pests	Around 30 years of experience in the detection of regulated bacteria. Among others: <i>Xylella fastidiosa</i> , <i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> , <i>Ralstonia solanacearum</i> , <i>Erwinia amylovora</i> , <i>Xanthomonas fragariae</i> , <i>Pseudomonas syringae</i> pv. <i>actinidiae</i> , <i>Acidovorax citrulli</i> .
Expertise with drafting diagnostic protocols (e.g. regional diagnostic protocols)	Over 25 year as Member of the EPPO Panel on Diagnostics in Bacteriology. Implementation and validation of diagnostic protocols related to regulated bacteria (e.g. EUPHRESKO, ARNADIA). Author of four international diagnostic standards. Multiannual expertise as an EU Expert during the reform of the Phytosanitary Organisations in Serbia, Montenegro,



	Albania, Kosovo, focusing on lab accreditation for the detection of regulated bacteria.
Expertise with development of novel diagnostic methods	Implementation of the <i>in situ</i> hybridisation technique to detect phytopathogenic bacteria <i>in planta</i> . Development of the SDS-PAGE technique and its use in the detection and identification of <i>Xylella fastidiosa</i> . Implementation and validation of viability qPCR for <i>A. citrulli</i> and <i>Ca. Liberibacter solanacearum</i> .
Elements demonstrating a strong working knowledge of English	Multiannual teaching experience in English. Multiannual activity at EPPO. Nine years of activity as ad hoc Expert at EFSA. Activity as an expert at the Standing Phytosanitary Committee (Brussels) for the development of legislations related to <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> and <i>Ralstonia solanacearum</i> . Multiannual activity as EU-TAIEX expert in the Balkans and the Eastern Mediterranean region. Founder and Deputy Director of the University Centre for International Cooperation and Development (activity focused on rural development in sub-saharian Africa).

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	1991	2005	Senior scientist and Reader	University of Bologna	1. Development, implementation and validation of diagnostic methods for regulated bacteria, 2. Accountability for the analysis of plants and plant products for the detection of regulated bacteria (contracted by the Phytosanitary Service, Emilia Romagna) 3. Trainer of phytosanitary inspectors (contracted by the NPPO, Rome). 4. Development of national surveillance systems for <i>Erwinia amylovora</i> and <i>Ralstonia solanacearum</i> .
2	2005	present	Professor of Plant Pathology	University of Modena and Reggio Emilia	1. Chair of Plant Pathology 2. Management of a diagnostic lab for the analysis of regulated bacteria. 3. Participation to a number of EUPHRESKO projects related to the detection and identification of regulated bacteria. 4. Coordination of research projects focused on detection, epidemiology and control of regulated bacteria, e.g.: QBOL and TESTA. 5. Advisory activity to RPPOs and NPPOs. 6. Commitment as an EU-TAIEX Expert 7. Rural development in sub-saharian Africa
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RELEVANT EDUCATION AND TRAINING	
Education/ Academic qualifications/ Professional training (list only those relevant to the nomination)	<p>Master Degree in Natural Sciences (Italy)</p> <p>Master Degree in Phytomedicine (Germany)</p> <p>PhD studies in Plant Pathology (Germany)</p> <p>Post-doctoral specialisation in electronic microscopy.</p> <p>Specific professional trainings on the detection and identification of plant pathogenic bacteria received at: University of California, Berkeley, USA; FERA, York, UK; Science Laboratory, Dublin, Ireland; Plant Protection Service, Wageningen, The Netherlands; Julius Kühn Institut, Braunschweig, Germany; Plant Directorate, Lyngby, Denmark; Biosecurity New Zealand, Auckland, New Zealand.</p>
Other language skills	<p>Italian and German, both as mother tongues (bilingual);</p> <p>English C2, Spanish and French A2.</p>
PUBLICATIONS	
List publications and keynote speaking engagements (list only those relevant to the nomination and do not include copies of publications)	<ul style="list-style-type: none"> • LORETI S., N. PUCCI, G. PEREZ, V. CATARA, M. SCORTICHINI, P. BELLA, P. FERRANTE, D. GIOVANARDI and E. STEFANI, 2015. Detection and identification of <i>Xanthomonas arboricola</i> pv. <i>pruni</i> from symptomless plant material: results of an Italian test performance study. Bulletin OEPP/EPPO Bulletin 45(1): 41-51. • GIOVANARDI D., M. FERRARI and E. STEFANI, 2015. Seed transmission of <i>Acidovorax citrulli</i>, implementation of its detection in watermelon seeds and development of disinfection methods In: Proceedings of the VII Congress on Plant Protection, Zlatibor, Serbia, 24-28 November 2014. ISBN 978-86-83017-27-0 . pp. 71-76. • LORETI S., A. CUNTY, N. PUCCI, A. CHABIRAND, E. STEFANI et al., 2018. Performance of diagnostic tests for the detection and identification of <i>Pseudomonas syringae</i> pv. <i>actinidiae</i> (Psa) from woody samples. European Journal of Plant Pathology. 152(3): 657-676 • GIOVANARDI D., S.A. SUTTON, E. STEFANI and R.R WALCOTT, 2018. Factors influencing the detection of <i>Acidovorax citrulli</i> in naturally contaminated cucurbitaceous seeds by PCR-based assays. Seed Science and Technology, 46 (1): 93-106. • GIOVANI B., G. CELLIER, M. McMULLEN, ... E. STEFANI and F. PETTER, 2019. From transnational research collaboration to regional standards De la recherche collaborative internationale aux normes regionales. Biotechnology, Agronomy and Society and Environment, 23(1): 30-35.
<u>Last 5 years</u>	