



**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	Harrie Koenraadt
Country / organisation	The Netherlands, Naktuinbouw
Current position	Senior researcher
Contact details	Naktuinbouw, Sotaweg 20, Roelofarendsveen, The Netherlands
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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	Seed pathology with emphasis on bacterial and viral diseases of vegetables
Practical expertise related to the pest (detection, identification, isolation etc.)	Development and validation of sweatbox method (grow out) and seed extract (SE) PCR for detection of <i>Acidovorax citrulli</i> , <i>A. valerianellae</i> and <i>A. cattleyae</i> Organised Workshop Seed wash PCR for <i>Acidovorax citrulli</i> at Naktuinbouw 2010
Expertise with quarantine diagnostics, including using diagnostic protocols for regulated pests	Several years of experience in seed health testing for regulated and non-regulated pests with classic methods (dilution plating, serology (IF and ELISA, grow outs pathogenicity assays) and molecular methods (qPCR, finger printing PCR)
Expertise with drafting diagnostic protocols (e.g. regional diagnostic protocols)	Drafted many seed health testing protocols for Naktuinbouw including some protocols for ISTA and ISHI (International seed Health Initiative). Dr. Stefani, Maaike Bruinsma and H. Koenraadt participated in writing PM 7/127 (1) <i>Acidovorax citrulli</i> . Bulletin OEPP/EPPO Bulletin (2016) 46 (3), 444–462
Expertise with development of novel diagnostic methods	Experience with Taqman PCR development and validation. Some experience with NGS as well.



Elements demonstrating a strong working knowledge of English	Practiced English during 4 years stay in Michigan, USA as Ph.D student.				
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	1988	1992	Ph.D student	Michigan State University, USA	Fruit pathology, fungicide resistance, sequencing
2	1992	1992	Junior seeds pathologist	Syngenta, Enkhuizen, the Netherlands	Seed pathology vegetables (tobamoviruses and bacterial diseases)
3	1993	now	Senior researcher	Naktuinbouw	1. Development and validation of seed health assays 2. Audits and protocol evaluation of external laboratories and teaching seed pathology 3. ISTA/ISHI and QC of own laboratory
RELEVANT EDUCATION AND TRAINING					
Education/ Academic qualifications/ Professional training (list only those relevant to the nomination)	1987 Masters phytopathology at University of Wageningen, The Netherlands 1992 Ph.D. at Michigan State University, USA. Thesis: "Characterization of the beta-tubulin gene from benomyl-resistant and benomyl-sensitive field strains of <i>Venturia inaequalis</i> ".				
Other language skills					
PUBLICATIONS					
List publications and keynote speaking engagements (list only those relevant to the nomination and do not include copies of publications)	<p>Detection of <i>Xanthomonas campestris</i> pv. <i>campestris</i> in Crucifer Seeds Harrie Koenraadt, Deborah L. Hailstones, Alexander Ignatov, and Norman W. Schaad. 2019. Chapter 23 in Detection of Plant-Pathogenic Bacteria in Seed and Other Planting Material, Second Edition. APS press</p> <p>Seed extract TaqMan PCR for the detection of <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> in seeds of tomato. Poster APS meeting 2017</p> <p>Harrie Koenraadt, André van Vliet, Agata Jodlowska, Bert Woudt, Michel Ebskamp and Maaïke Bruinsma. Detection of <i>Acidovorax citrulli</i> in seed extracts of melon and watermelon with Taqman PCR. ISTA Seed Health symposium 2014.</p> <p>Woudt B, Koenraadt HMS, Oosterhof J & van Betteray B (2009b) Development of specific primers for the molecular detection of <i>Acidovorax avenae</i> subsp. <i>citrulli</i>. Proceedings of the EPPO Conference on diagnostics.</p>				



	<p>Koenraad, H., van Betteray, B., Germain, R., Hiddink, G., Jones, J.B., Oosterhof, J., Rijlaarsdam, A., Roorda, (2009) Development of specific primers for the molecular detection of bacterial spot of pepper and tomato. Acta Hort 808,99–102</p> <p>Koenraad HMS, Borst RC, van Vliet A, Hoekstra M, van Schie J & Buimer M(2005). Detection of <i>Acidovorax avenae</i> subsp. <i>citrulli</i> with the sweatbox method. In: Mededelingenblad van de Koninklijke Nederlandse Plantenziektkundige Vereniging. Supplement Gewasbescherming 36: 86S.</p> <p>.</p>
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