



**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	Ruojing Wang
Country / organisation	Canada / Canadian Food Inspection Agency
Current position	Research Scientist
Contact details	Address: 301 421 Downey Road, Saskatoon, SK, S7N 4L8, Canada
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	Email address: Ruojing.wang@canada.ca
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 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 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	Expertise in developing reference resources for seed identification of noxious weeds and invasive plants, including <i>Amaranthus palmeri</i> . Project lead for developing digital identification tools for seeds. (see more at www.idseed.org)
Practical expertise related to the pest (detection, identification, isolation etc.)	Publish and study seed identification features of weed seeds, supervising diagnosis of seed identification in seeds and grains samples.
Expertise with quarantine diagnostics, including using diagnostic protocols for regulated pests	Supervise and develop methods for detection and identification of quarantine plant species in seed and grain samples. Routinely used international and national seed testing rules, as well as laboratory standard operational procedures and protocols.
Expertise with drafting diagnostic protocols (e.g. regional diagnostic protocols)	Participated in the drafting of IPPC protocol: Diagnostic protocol for <i>Striga</i> spp. (2008-009), as well as writing of standard operating procedures for pest detection and identification in the government laboratory.
Expertise with development of novel diagnostic methods	Conducted two research projects using image analysis and computer vision diagnosis for weed seed detection and identification. Developed an international knowledge-sharing platform of digital reference resources for seed morphology and identification.



Elements demonstrating a strong working knowledge of English		Obtained Ph.D. degree in plant ecology under education in English. Worked for 15 years in current job with English communication of speak, write, and listen.			
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	2016	present	Research Scientist	Canadian Food Inspection Agency (CFIA)	1. Method development for seed identification, seed and grain sample analysis 2. Development of digital references for seed identification 3. Draft, review and revise testing protocols
2	2006	2016	Biologist	Canadian Food Inspection Agency (CFIA)	1. Supervise and manage reference seed specimen 2. Delivery the proficiency testing program to CFIA accredited seed labs 3. Method development for diagnostic analysis
3	2005	2006	Post-doctorate fellowship	Agricultural Agri-Food Canada	1. Breeding for canola shattering resistance 2. 3.
RELEVANT EDUCATION AND TRAINING					
Education/ Academic qualifications/ Professional training (list only those relevant to the nomination)		Ph.D., Plant Sciences with a specialization in Plant Ecology, the Department of Plant Sciences, University of Saskatchewan, Saskatoon, Saskatchewan, Canada. M.Sc. Agriculture with specializations in Plant Physiology, Department of Agriculture, Inner Mongolia Agriculture University, China. B.Sc. Agriculture with a specialization in Horticulture/Vegetable Crop Sciences, Department of Agriculture, Inner Mongolia Agriculture University, China.			
Other language skills					
PUBLICATIONS					
List publications and keynote speaking engagements (list only those relevant to the nomination and do not include copies of publications)		Recent publications: 1. J. Neudorf, A. Salzl and R. Wang (2019) Taxonomy and Identification of Seeds of Sorghum Species and Sub-species, poster presentation in AOSA 2019 annual meeting. 2. R. Wang, X. Yi, M. Eramian, J. Neudorf, A. Salzl and J. Maruschak (2019) Identification of morphologically similar seeds using computer vision and image analysis ISTA Seed Symposium, 32nd ISTA Congress, Abstract, page 36 Keynote speaker: 2020 the 74 th annual meeting of the Canadian Weed Society: Preventing weed spread with the detection and identification of weed seeds in commodities			