## <<种子健康与农业发展>>

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#### 前言

Welcome to Beijing, China. Welcome to join the 3rd International Symposium on Seed Health in Agricultural Development (3ra SHAD) taking place in Beijing, August 25-27, 2010. The 3rd SHAD is organized by the Danish Seed Health Centre for Developing Countries (DSHC), Denmark, the Asian Seed Health Centre (ASHC), Mysore, India, African Seed Health Centre (AfSHC), Morogoro, Tanzania, and the Seed Health Centre of China Agricultural University (SHC-CAU), Beijing, China that hosts the symposium. The Symposium includes 28 oral presentations covers by four sessions and 9 key invited speakers, 24 posters, and 22 paper abstracts. To encourage Chinese seed scientists to attend the symposium, we have accepted several abstracts and papers in Chinese since this is also the sixth national symposium of seed pathology in China. This is the third Symposium of a series of meeting to be organized on a regular basis and under the auspices of the DSHC in different partner countries. The SHC-CAU established in 2007 has become a member of the international recognized group of the seed health centres in Europe, Asia and Africa. The SHC-CAU is growing fast and trying best to boost the seed health system in China. The DSHC was established in 2004 by combining the activities of the former Danish Government Institute of Seed Pathology (DGISP) with development activities of the Department of Plant Biology and Biotechnology, Faculty of Life Sciences, University of Copenhagen, Denmark. The DSHC conducts research and training within the areas of seed health technology and plant pathology with the primary objective of improving farm-saved seed and locally produced seed in developing countries. DSHC sustains and expands the research and training activities implemented in collaboration with the regional centres and other partners of Africa and Asia.

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#### 内容概要

China. Welcome to join the 3rd International Symposium on Seed Health in Agricultural Development (3ra SHAD) taking place in Beijing, August 25-27, 2010. The 3rd SHAD is organized by the Danish Seed Health Centre for Developing Countries (DSHC), Denmark, the Asian Seed Health Centre (ASHC), Mysore, India, African Seed Health Centre (AfSHC), Morogoro, Tanzania, and the Seed Health Centre of China Agricultural University (SHC-CAU), Beijing, China that hosts the symposium.

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#### 书籍目录

PREFACEPROGRAMMEABSTRACTS OF ORAL PRESENTATIONSSPECIAL LECTURESThe value of seed health testing in preventing introduction and spread of bacterial diseases of plantsImproved PCR-based assays for the detection of plant pathogenic XanthomonasThe role of Foundation Plant Services in the creation of Clean Plant stock Review on plant quarantine on seeds and seedlings in ChinaSESSION 1 Economic Significance of Seed-borne DiseasesSeed health status of farmers saved riceSeed health and its implicationsHealth status of TLS (Truthfully Labeled Seeds) in the markets of Bangladesh Development of seed treatments for control of loose smut in barley and wheat (U. nuda, U. tritici) inorganic agricultureSESSION 2 Management of Seed-borne Diseases Detection and management of bacterial canker disease of tomatoes during and after hybrid seedproductionThe control of seed-borne pathogens of sorghum with two aqueous extracts made from Yucca schidigeralncrease in rice yield through clean seed technology, a farmer's participatory approach The effect of plant extracts and essential oils on the control of brown spot disease of riceThe effect of plant extracts as seed treatments on the control of bacterial leaf spot of tomatoEcofriendly seed treatment strategy for the management of important vegetable seed-borne diseases in IndiaSeed sanitation under new physical methods with special reference to electron treatment/solation, identification, pathogenicity and genetic diversity of the black rot pathogen Xanthomonascampestris pv. campestris in Brassica seed and crops from Mozambique Effect of cultivar, foliar fungicide, and harvest on seed infection of soybean in Arkansas, USAUtilization of wheat genotypes resistant to spot blotch, Karnal bunt and loose smut in breeding for disease resistance in IndiaPossibilities for control of seed-borne Phoma spp., Curvularia spp. and CoUetotrichum graminicola in sorghum (Sorghum bicolor), using aqueous extracts of Acacia gourmaensis, Balanites aegyptiaca and Eclipta albaChemical analysis and mammalian toxicity of four aqueous plant extracts used for seed treatment Histology of infection mode of Acidovorax avenae subsp, citrulli, the causal agent of fruit blotch of watermelon SESSION 3 Diagnosis Technology on Seed-borne Diseases Molecular detection and multiplexing of some important seed-borne pathogens Characterization of bacterial leaf spot causing Xanthomonas of sweet pepper in Tanzania by PCR, pathogenicity and race determination Molecular identification and genetic diversity of Lasidiplodia theobroma, the causal agent of Jatrophacurcus collar rot disease .SEM study on speed and process of seed-borne infection of Fusarium moniliforme on soybean seedSESSION 4 Quarantine and Certification of Seeds and Vegetatively Propagated Plant MaterialsQuarantine, certification and eradication: a U.S. perspective to viral disease management in fruits cropsNew emerging grapevine viruses and prevention in the Midwest of USAABSTRACTS OF POSTERSBiocontrol of kernel smut of sorghum and detection of the causal organism, Sporisorium sorghi, in plant tissue2,4-Diacetylphloroglucinol producing Pseudomonasfluorescens mediated disease resistance against early blight of tomato, A PCR-based diagnostic assay for the detection of Alternaria padwickii in rice seeds Preventive control of seed borne anthracnose in lupineThe effects of seed treatment on Ascochyta blight infection progress in pea in different agro ecosystems 89Improvement of seed quality in organic herb and medicinal plant farmingActivity of SYP-Z048 Z-, E- isomers on plant pathogenic fungiDetermination of SYP-Z048 in soil with dispersive solid phase extraction and high performance liquid chromatographyStudy on the testing of seed associated fungi from Populus euphratica and P. pruinosaThe first report of viable but non-culturable (VBNC) state of Clavibacter michiganensis subsp. michiganensis Testing of seed-associated fungi and disinfecting effect of six fungicides on rice seeds from 35 varietiesSeed health testing and chemical treatment effect on watermelon seeds in Beijing regionStudy on control of seed and seedling diseases of Panax quinquefolium by seed-coating formulationsControl efficacy of 0.8% myclobutanil-tebuconazole SCF on take-all of wheatThe antifungal activity and the mode of uptake and transportation of several QoI fungicides The detection method research for Clavibacter michiganensis subsp, nebraskensisResearch of detection technique of two important pathogens in Burkholderia genus Detection of live and dead cell of Pantoea stewartii subsp., stewartii in polymerase chain reaction assayusing a DNA binding dye Detection of Cucumber Green Mottle Mosaic Virus on seeds Detection of Acidovorax citrulli in watermelon leaves by polymerase chain reaction with co-amplification of host DNAE valuation of biocontrol

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preparation "Shu De Kang" with different application methods of pepper in the fieldABSTRACTS AND PAPERSThe establishment of rapid detection method for the pathogen of crucifer bacterial black spotSeed-borne fungi of Onobrychis viciaefoliaSeed-borne fungi of Sorghum sudanense and its pathogenicityEffects of Neotyphodium endophytes on seed germination of three grass species under different pHconditionsEffects of Neotyphodium endophyte on germination of Hordeum brevisubulatum under temperature andwater stress conditions Effects of pathogenic fungus Embellisia astragali on the germination of Astragalus adsurgens Cloning and analysis of NBS type resistance gene analogs in citrusRapid detection of Acidovorax avenae subsp, citrulli using protein macroarray Agriculture engineering and agricultural magagement Present situation and developing strategy of seed health testing in ChinaPotato verticillium wilt was founded in Urumqi, XinjiangQuality analysis of seed potato produced in Yunnan provinceRegistration current situation and development of crop seed treatment fungicide in ChinaOne-step multiplex RT-PCR for simultaneous detection of four potato virusesDetection of Pantoea agglomerans, causal agent of dry stalk rot, in maize seeds and its seed-bornecharacterization Detection of pathogens causing common blight in dry bean seedsDetection of Acidovorax avenae subsp, citrulli in exported seedsStudy on harmless treatment technology of import watermelon seedsDetection of Cucumber green mottle mosaic virus using MNP Real-time RT-PCR methodDevelopment of a real-time fluorescent quantitative RT-PCR method for the detection of Plum pox virusIdentification of viruses infecting Capsicum annuum in Hexi area of Gansu province Detection of three quarantine virus and endogenous genes of soybean seeds by single-tube multiplex PCRAPPENDIXDanish Seed Health CentreAsian Seed Health CentreAfrican Seed Health CentreSeed Health Centre of China Agricultural UniversityList of ParticipantsPOSTSCRIPT

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#### 章节摘录

插图: Bacterial canker of tomato is a serious seed-borne disease caused by Clavibacter michiganensis subsp, michiganensis (Cmm). Copper-based fungicides are responsible for bacterial diseases control in field for many decades. Hydrochloric acid is often used to treat seeds after harvest. Meanwhile, copper and acid are inducers for viable but non-culturable (VBNCstate) in some food microbes. In Chinese tomato seed production areas, we use routine methods, such as bio-PCR, to test whether the seed-parents, soil and weeds besides the field bring Cmm. All the results are negative. But the disease still occurs every year. It is supposed that the disease may be caused by Cmm in VBNC state which cannot be tested by the routine methods. This was the first report which carried the impact of different concentrations of copper (Cu2+) and different pH values on Cmm, the method of staining Cmm by LIVE/DEAD BacLight Bacterial Viability Kits L13152, and the VBNC state of Cmm induced by copper and acid environment. The results indicated that less than 1.0 mmol/L of copper sulfate had no significant impact on the survival of Cmm, moreover, 2.5 mmol/L of copper sulfate and 5.0 mmol/L of Kocide2000 could kill all cells. Cmm could grow in LB broth with pH 5.0-9.5 and the optimal pH value was 6.0~8.5. When staining Cmm with LIVE/DEAD BacLight Bacterial Viability Kits, the optimal proportion was Cmm: SYTO9:PI:ddH20 = 40:6:5:11 (V:V:V) and the optimal time was 20 min. The result also showed that Cmm could enter VBNC state induced by copper, acid and oligotrophy. It was the first report that Cmm could enter VBNC state induced by copper and acid. It applies a possible origin of the primary infection. At the same time, the result challenges the exiting seed health test methods; For the negative results, resuscitation of VBNC state should be added.

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