



## CPPSI Update: June 20, 2017



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A science-based, vegetable seed industry initiative to standardize the identification of plant pathogen strains and races based on sets of host differentials and reference plant pathogen strains

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# CPPSI @ UC Davis

- Two thirds of the way through the initial three year funding commitment from founding sponsors
- Recruiting new members
- Securing commitments for renewed 3 year membership: 6/7 renewed
- Submitted a CDFA SCBG proposal for 3 years of funding in support of continued CPPSI growth – invited back to submit full proposal
- Working with UC Davis for approval to start charging nonmembers for differentials and reference strains.
- Revising Business Plan with focus on sustainability and a new funding model – present to Advisory Council at September 25 meeting



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# Progress in Differential Set Development

- Hosts and Reference Strains Nagoya Protocol compliant
  - Testing services exempt, but in scope if users wish to use survivors in breeding programs
  - Origin and Sources of seeds and pathogens identified and documented
  - ARS – USDA temporary hold of microbe distribution is a concern
- 2016: September 2017: Round 2
  - Fusarium wilt of watermelon
  - Downy mildew of lettuce
  - TSWV of pepper
  - TSWV of tomato
- 2017: December 2018: Round 3 (Harmores 3)
  - Powdery mildew of melon
  - Fusarium wilt of tomato
  - Root knot nematode of tomato



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## Round 4 Possibilities: note addition of **row crop diseases**

- Pepper PVY, TEV and PepMV
- Lettuce LMV
- Hot Pepper CMV
- Sweet pepper Tobamoviruses
- Cucumber CMV
- **Cotton Bacterial blight**
- Tomato Verticillium, Spot, Speck or Early blight
- *Rhizoctonia solani* in brassicas
- Downy mildew in table beets
- Cucurbit Potyviruses, CMV, Anthracnose
- **Corn Common rust**



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# CPPSI Working Group Members

- Phyllis Himmel (Chair) – UC Davis – Seed Biotechnology Center
- Elisabetta Vivoda – VoloAgri
- Kishor Bhattarai – HM Clause
- Craig Sandlin - Syngenta
- Lindsey du Toit – Washing State University
- Kimberly Webb – USDA ARS, Phytopathology
- Stephanie Greene - USDA ARS, Plant Genetic Resources Conservation
- Staci Rosenberger– Monsanto Vegetable Seeds
- Jessica Koczan – Monsanto Vegetable Seeds
- Nicki Philips – Enza Zaden
- Phil Brown – Sakata
- Marco Bello – Sakata
- Surendranath Baliji – Bayer Crop Sciences Vegetable Seeds
- Catalina Cespedes – Bayer Crop Sciences Vegetable Seeds



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## CPPSI thanks our seven vegetable seed company founding supporters – Advisory Council

- Bayer
- Enza Zaden
- HM Clause
- Monsanto
- Rijk Zwaan
- Sakata
- Syngenta



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# Thank you!



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