

### Representing Plant Pathology and Microbiology Department

#### 2017 Annual APS North Central Division meeting at Urbana-Champaign, IL (June 14-16)



From left to right: Grazieli, Chelsea

**Congratulations!** Chelsea Harbach and Grazieli Araldi Da Silva were respectively awarded the first place oral presentation and the third place poster presentation prizes.

On Thursday, June 15, 2017, seven members from our department presented their research at the 2017 Annual APS NC meeting. Chelsea Harbach gave a 15-minute presentation of her ongoing research while Jyotsna Acharya (A. Robertson's lab), Kaitlyn Bissonnette (G. Tylka's lab), Scheila Guilherme, Grazieli Araldi da Silva (L. Leandro's Lab), Elizabeth Lerch (A. Robertson's lab), and Muhhamad Raza (F. Nutter lab) participated on the poster presentations.



Snapshots from the North Central APS meeting

#### 36<sup>th</sup> Annual Meeting American Society for Virology (June 24-28), Madison, WI



From left to right: Pulkit, Allen, Melissa, Elizabeth, Véronique (Allen's First Postdoc)



Snapshots of AVS meeting

The W. A. Miller lab attended the American Society for Virology (ASV) 36<sup>th</sup> Annual Meeting held June 24- 28 at Monona Terrace Convention Center in Madison, Wisconsin. During the first day (Saturday, June 24), Elizabeth Carino gave a 15-minute presentation of her research with the title: "The 3' Untranslated Region of Maize Chlorotic Mottle Virus Contains a New Type of Cap-Independent Translation Enhancer" at the Plant Viruses I: Novel RNA and Protein Functions workshop section. The following day (Sunday, June 25), Dr. W. Allen Miller presented his lab research with the title: "Studies of noncoding sub-genomic RNAs of certain luteovirids and tombosvirids" during the RNA Viruses: Replication and Gene Expression I workshop section.

### Recent Publications

- Abdelsamad, N., J. Baumbach, M. Bhattacharyya and **L. Leandro** (2017). "Soybean Sudden Death Syndrome Caused by *Fusarium virguliforme* is Impaired by Prolonged Flooding and Anaerobic Conditions." *Plant Disease* **101**(5): 712-719.
- da Silva, M., **G. Tylka** and **G. Munkvold** (2017). "Seed Treatment Effects on Maize Seedlings Coinfected with *Rhizoctonia solani* and *Pratylenchus penetrans*." *Plant Disease* **101**(6): 957-963.
- Han, G., Y. Kandel, **L. Leandro**, M. Helmers, L. Schott and **D. Mueller** (2017). "Influence of drainage on soybean seedling health." *Journal of Soil and Water Conservation* **72**(3): 266-271.
- Mayers, C. G., **T. C. Harrington** and C. M. Ranger (2017). "First report of a sexual state in an ambrosia fungus: *Ambrosiella cleistominuta* sp. nov. associated with the ambrosia beetle *Anisandrus maiche*." *Botany* **95**(5): 503-512.
- Piya, S., C. Kihm, J. H. Rice, **T. J. Baum** and T. Hewezi (2017). "Cooperative regulatory functions of miR858 and MYB83 during cyst nematode parasitism." *Plant Physiology*: pp. 00273.02017.

### Upcoming Events



**August 5-9, 2017** 2017 APS Annual Meeting: Changing Landscapes of Plant Pathology, San Antonio, TX

**Registration Deadline:** currently open, fees increase after July 6, 2017

**August 16, 2017** 9:00a.m.- 4:00p.m. Crop Disease Clinic Workshop, 1928 240th Street, Boone, Iowa

**Registration Deadline:** midnight, Wednesday, August 9, 2017. \$125 Registration fee

**August 17, 2017** 8:30a.m. - 4:30p.m. SCN and Soybean Aphid Resistance Management Workshop, Boone, IA

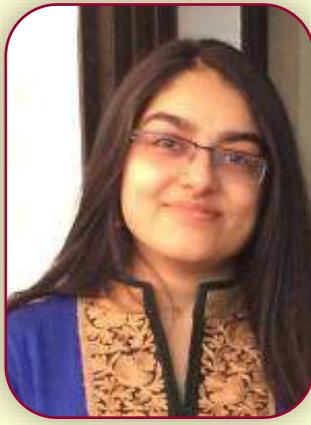
**Registration Deadline:** midnight, Wednesday, August 9, 2017. \$125 Registration fee

# Recent Plant Pathology and Microbiology Graduates



"I thank ISU faculty involved in the ISU-UCR student program and my advisor Dr. Alison Robertson for giving me the opportunity to become an ISU student and for all her help and advice during my PhD"-Mauricio Serrano, Ph.D.

**Mauricio Serrano** completed his Plant Pathology and Microbiology Ph.D. degree under the direction of Dr. Alison Robertson. On Wednesday, June 7, 2017, Mauricio presented his thesis defense seminar: "Efficacy of soybean seed treatments in Iowa and the effect of cold stress in damping-off caused by *P. sylvaticum*".



**Priyanka Surana** completed her Bioinformatics and Computational Biology Ph.D. degree under the direction of Dr. Roger Wise. On Thursday, June 15, 2017, Priyanka presented her thesis defense seminar: "Membrane trafficking in resistance gene-mediated defense against the barley powdery mildew fungus".



**Lauren Washington** completed her Plant Pathology Master's degree under the guidance and supervision of Dr. Gary Munkvold. On Friday June 9, 2017, Lauren presented her defense seminar: "Utilization of polyanhydride nanoparticle encapsulated fungicide seed treatments against seedborne and soilborne *Fusarium graminearum* on maize".

## New Members of the Plant Pathology & Microbiology Family



**Joshua Viggers**

**Advisor:** Daren S Mueller  
**Major:** Plant Pathology & Microbiology  
**Education:** B.S. Crop Sciences University of Illinois-Urbana Champaign



**Andrew Penney**

**Advisors:** Daren Mueller & Alison E Robertson  
**Major:** Plant Pathology & Microbiology  
**Education:** M.S. Seed Technology and Business  
B.S. Agronomy  
Iowa State University



**Katherine Nolan**

**Advisors:** Steve Whitham  
**Major:** Interdepartmental Plant Biology  
**Education:** B.S. Crop Sciences University of Illinois-Urbana Champaign



**Valeria Velazquez**

**Advisors:** Roger Wise  
**Major:** Bioinformatics and Computational Biology  
**Education:** M.Sc. Bioinformatics & Computational Biology Universidad de Valladolid  
B.Sc. Hons. Biology Universidad de Antioquia



**Christian Montes**

**Advisors:** Justin Walley  
**Major:** Interdepartmental Genetics and Genomics  
**Education:** B.S. Biochemistry Universidad de Chile

## Meet the New Esmail and Mary Zirakparvar Graduate Student Fellows



With an understanding of the importance of online communication and an online presence to long-term success in science, I am thankful for the opportunity given me to serve as the Webpage Administrator for our great Department, and more importantly as a Zirakparvar fellow. I will also like to appreciate my immediate predecessor and pioneer Zirakparvar fellow for this position - Jared Jensen, not only for the great job he has hitherto done, but also the legacies he left behind in "expanding our department's presence past the confines of Bessey Hall (or Science 1 or Agronomy or Seed Science) with an updated website and burgeoning social media presence".

Honestly, this will make things a lot easier for me to build on these legacies, and hopefully leave it much better that I met it. Our website is our face to the world, as it is critical to recruitment of new students, staff and faculty, as well as influences the extent to which we present a professional impression to the rest of the world. In order to successfully carry out this task, I will appreciate your support in ensuring that we together celebrate and showcase who we are and our achievements as a Department. Please, feel free to share with me and Elizabeth Carino (the Newsletter Zirakparvar fellow) pictures from conferences and field works, achievements in your various laboratories and research groups, awards and scholarships, upcoming events and other pieces of information, suggestions and recommendations that you think will be useful in getting this job done. Also, do not forget to like us on **Facebook** and follow us on **Twitter**.

Thank you!

Kunle Olawole  
(Gwyn Beattie's lab)



I have the honor to serve as editor of the newsletter of the plant pathology and microbiology department, succeeding Augustine Beeman, who has been editor and pioneer of the department newsletter since 2015.

I am excited to start this journey as a Zirakparvar fellow and I look forward to listening to your stories, communicate, and share with others the amazing progress and work from our department. I have many ideas of how to showcase the advances in our department, including a monthly featuring of interesting and exciting research in our various labs. I have always been fascinated by the stories behind the science, so as we work on adding on the work already established by Jared and Augie, I welcome useful comments, critiques, or suggestions that anyone might have.

I look forward to work with all of you and please feel free to contact me and send me your stories, and photos/illustrations that you would like to share.

Sincerely,  
*Lu*

Elizabeth J. Carino  
Interdepartmental Genetics  
[ejcarino@iastate.edu](mailto:ejcarino@iastate.edu)  
W.A. Miller's lab