

### 2013 UNITED STATES PATENTS ISSUED

- ♦ **James S. Drouillard:** *Product and Process for Elevating Lipid Blood Levels in Livestock* - a patent for a supplement that stimulates the growth, health and reproductive functions of cattle, sheep and goats.
- ♦ **Wenqiao Yuan and Duo Wang:** *Char Supported Catalysts for Syngas Cleanup and Conditioning* - a patent for a material that helps convert straw and other grasses into a cleaner substance for alternative energy and fuel.

### 2013 DOCTORAL RESEARCH SCHOLARSHIP PROGRAM

The Kansas State University Research Foundation Doctoral Research Scholarship was established in 2010 to provide strategic funding to recognize the performance of outstanding Ph.D. students at Kansas State University who demonstrate superior academic achievements and scholarly abilities and whose research has the potential for the disclosure of intellectual property and/or commercial application.

Each scholarship provides an annual \$15,000 stipend that may be supplemented with additional GRA or GTA funds and provides up to \$5,000 for tuition.

The Research Foundation is pleased to recognize these individuals selected for the 2013-2014 academic year.

**Xiangdong Li**, doctoral candidate in Anatomy and Physiology. Xiangdong is researching a novel peptide hydrogel for use as an effective vaccine adjuvant for porcine reproductive and respiratory syndrome virus (PRRSV).

Xiangdong is advised by Dr. Jishu Shi.

**Jessica Rupp**, doctoral candidate in Plant Pathology. The current method for virus resistance is to breed resistance into varieties using classical genetics. Typically these traits provide resistance to a single virus. Jessica's research focuses on developing methods that would provide broad resistance to multiple plant RNA viruses.

Jessica is co-advised by Dr. John Fellers and Dr. Harold Trick.

### 2013 STIPEND SUPPLEMENT FOR INNOVATION EXCELLENCE PROGRAM

The Kansas State University Research Foundation Stipend Supplement for Innovation Excellence was initiated in 2012 as a way to recruit top candidates to K-State graduate programs. The goal of the stipend supplement is to enhance the maximum package a graduate program can offer top candidates with preferences in areas of research where the generation of patentable intellectual property is likely and students who propose to work with research faculty who have a track record of creating and disclosing patentable intellectual property.

For master's students, the scholarship may be up to 25% of the assistantship offered by the graduate program (to a maximum supplement of \$3,000 annually) and for doctoral students, the scholarship may be up to 50% of the assistantship offered by the graduate program (to a maximum supplement of \$5,000 annually).

The Research Foundation is pleased to recognize these individuals selected for the 2013-2014 academic year.

**Weerakonda DeSilva**, doctoral candidate in Biochemistry. Weerakonda is working under the supervision of Dr. Stella Lee, Division of Biology.

**Jennifer Frederick**, doctoral candidate in Grain Science and Industry. Jennifer is co-advised by Dr. Hulya Dogan and Dr. Bhadriraju Subramanyam.

**Ethan Stephenson**, master's candidate in Animal Sciences and Industry. Ethan is working under the supervision of Dr. Mike Tokach.

## 2013 K-STATE INVENTION DISCLOSURE CONTRIBUTORS

### College of Agriculture

#### Agricultural Research Center - Hays

Geier, Patrick W.                      Seifers, Dallas L.  
Martin, Terry J.                        Stegman, Andrew F.  
Seaman, Clayton W.                 Zhang, Guorong

#### Agronomy

Fritz, Allan K.                         Talukder, Shyamal  
Schapaugh, William                 Tuinstra, Mitchell R.  
Stamm, Michael J.

#### Grain Science and Industry

Li, Yonghui                              Qi, Guangyan  
Li, Zhaofeng                            Shi, Yong-Cheng  
Miller, Rebecca                        Sun, Xiuzhi S.

#### Plant Pathology

Friebe, Bernd                            Todd, Timothy C.  
Gill, Bikram S.                         Trick, Harold N.  
Stevens, Sheila

### College of Arts and Sciences

#### Chemistry

Hua, Duy H.                              Swisher, Luxi Z.  
Li, Jun                                      Syed, Lateef U.  
Prior, Allan

#### Physics

DePaola, Brett D.                        Sorensen, Christopher  
Nepal, Arjun                              Szoszkiewicz, Robert  
Singh, Gajendra Prasad

### College of Engineering

#### Biological and Agricultural Engineering

Li, Ningbo                                Wang, Donghai

#### Chemical Engineering

Berry, Vikas                              Frye, Clint D.  
Edgar, James                             Nguyen, Phong Tuan

#### Electrical and Computer Engineering

Mirafzal, Behrooz                        Ochs, David

#### Mechanical and Nuclear Engineering

Bhandavat, Romil                        Singh, Gurpreet  
Cranmer, Joel                             Welch, Kyle  
Damas, Derek                             Werner, Justin  
David, Lamuel                             Wheeler, Mark  
Henderson, Brandon

### College of Technology and Aviation

#### Engineering Technology

Khan, Saeed M.                         Maresch, Nathan  
Kuntz, Justin

### College of Veterinary Medicine

#### Clinical Sciences

Bartle, Steven J.                         Davis, Elizabeth

#### Diagnostic Medicine/Pathobiology

Faburay, Bonto                            Moore, Susan  
Ewen, Catherine L.                        Mosier, Derek  
Hesse, Richard                            Richt, Juergen A.  
Knights, Kaori                             Wilkerson, Melinda  
Ma, Wenjun

### KSURF STATISTICS Last Five Calendar Years, 2009-2013

Invention Disclosures	153
New U.S. Patent Applications Filed	98
U.S. Patents Issued	27