

## APPENDIX A

Competitive federal funding by NIH or USDA AFRI to NC229 labs ( period 2014-2018). List compiled with CRIS system search [Date Search was conducted: December 18 2018, key words: swine and virus] plus information collected from NC 229 2017 annual report . Listed are 28 competitive USDA-AFRI-NIFA grants or NIH R21, amounting to a total of \$ 10,698,120,This is not a comprehensive list of all competitive funding received by NC229 researchers for tropics related to PRRS and other swine viral diseases

**1.ACCESSION NO:** 1015626 **SUBFILE:** CRIS  
**PROJ NO:** KS8014026 **AGENCY:** NIFA KAN  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** NEW  
**CONTRACT/GRANT/AGREEMENT NO:** 2018-67015-27893 **PROPOSAL NO:** 2017-05765  
**START:** 01 MAR 2018 **TERM:** 29 FEB 2020  
**GRANT AMT:** \$10,000 **GRANT YR:** 2018  
**AWARD TOTAL:** \$10,000  
**INITIAL AWARD YEAR:** 2018

**INVESTIGATOR:** Rowland, R.

**PERFORMING INSTITUTION:**  
KANSAS STATE UNIV  
MANHATTAN, KANSAS 66506

### ***WORKSHOP ON GLOBAL CHALLENGES IN SWINE INFECTIOUS DISEASES***

**2.ACCESSION NO:** 1006339 **SUBFILE:** CRIS  
**PROJ NO:** ILLW-2015-00414 **AGENCY:** NIFA ILLK  
**PROJ TYPE:** SMALL BUSINESS GRANT **PROJ STATUS:** TERMINATED  
**CONTRACT/GRANT/AGREEMENT NO:** 2015-33610-23672 **PROPOSAL NO:** 2015-00414  
**START:** 15 JUL 2015 **TERM:** 14 SEP 2016  
**GRANT AMT:** \$99,948 **GRANT YR:** 2015  
**AWARD TOTAL:** \$99,948  
**INITIAL AWARD YEAR:** 2015

**INVESTIGATOR:** Calzada-Nova, G.

**PERFORMING INSTITUTION:**  
APTIMMUNE BIOLOGICS, INC.  
60 HAZELWOOD DR  
CHAMPAIGN, ILLINOIS 61820

### ***A NEW CLASS OF PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME (PRRS) AUTOGENOUS VACCINE PRODUCED IN A NOVEL PORCINE MACROPHAGE CELL LINE***

**3.ACCESSION NO:** 1000930 **SUBFILE:** CRIS  
**PROJ NO:** NEB39-170 **AGENCY:** NIFA NEB  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** TERMINATED  
**CONTRACT/GRANT/AGREEMENT NO:** 2013-67015-21308 **PROPOSAL NO:** 2013-01035  
**START:** 01 SEP 2013 **TERM:** 31 AUG 2017 **FY:** 2017  
**GRANT AMT:** \$500,000 **GRANT YR:** 2013  
**AWARD TOTAL:** \$500,000  
**INITIAL AWARD YEAR:** 2013

**INVESTIGATOR:** Osorio, F. A.; Pattnaik, AS, K.; Kauvar, LA.

**PERFORMING INSTITUTION:**  
UNIVERSITY OF NEBRASKA  
LINCOLN, NEBRASKA 68583

***MOLECULAR STRUCTURES OF PORCINE REPRODUCTIVE AND RESPIRATORY VIRUS (PRRSV) THAT  
CONTRIBUTE TO PROTECTIVE IMMUNITY***

**4. ACCESSION NO:** 1000809 **SUBFILE:** CRIS  
**PROJ NO:** ILLV-44-6766 **AGENCY:** NIFA ILLV  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** TERMINATED  
**CONTRACT/GRANT/AGREEMENT NO:** 2013-67015-21335 **PROPOSAL NO:** 2013-01089  
**START:** 01 SEP 2013 **TERM:** 31 AUG 2018 **FY:** 2017  
**GRANT AMT:** \$500,000 **GRANT YR:** 2013  
**AWARD TOTAL:** \$500,000  
**INITIAL AWARD YEAR:** 2013

**INVESTIGATOR:** Rock, D. L.; Kolbasov, DE.

**PERFORMING INSTITUTION:**  
UNIVERSITY OF ILLINOIS  
2001 S. Lincoln Ave.  
URBANA, ILLINOIS 61801

***IDENTIFICATION AND CHARACTERIZATION OF PROTECTIVE ANTIGEN OF AFRICAN SWINE FEVER VIRUS***

**5. ACCESSION NO:** 1000691 **SUBFILE:** CRIS  
**PROJ NO:** KS602858 **AGENCY:** NIFA KAN  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** TERMINATED  
**CONTRACT/GRANT/AGREEMENT NO:** 2013-67015-21236 **PROPOSAL NO:** 2013-01182  
**START:** 01 SEP 2013 **TERM:** 31 AUG 2017 **FY:** 2017  
**GRANT AMT:** \$499,436 **GRANT YR:** 2013  
**AWARD TOTAL:** \$499,436  
**INITIAL AWARD YEAR:** 2013

**INVESTIGATOR:** Sang, Y.; Blecha, FR.; Rowland, RA.; Miller, LA.

**PERFORMING INSTITUTION:**  
KANSAS STATE UNIV  
MANHATTAN, KANSAS 66506

***ANTIVIRAL REGULATION UNDERLYING THE ACTIVATION STATUS OF PORCINE MONOCYTTIC INNATE  
IMMUNE CELLS***

**6. ACCESSION NO:** 0220950 **SUBFILE:** CRIS  
**PROJ NO:** MDR-2009-03338 **AGENCY:** NIFA MD.W  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** TERMINATED  
**CONTRACT/GRANT/AGREEMENT NO:** 2010-65205-20433 **PROPOSAL NO:** 2009-03338  
**START:** 01 JAN 2010 **TERM:** 31 DEC 2014  
**GRANT AMT:** \$749,975 **GRANT YR:** 2010  
**AWARD TOTAL:** \$749,975  
**INITIAL AWARD YEAR:** 2010

**INVESTIGATOR:** Lunney, J. K.; Ernst, C. W.; Honavar, V.; Jiang, Z.; Pogranichniy, R.; Steibel, J. P.; Tuggle, C.

**PERFORMING INSTITUTION:**  
AGRICULTURAL RESEARCH SERVICE

RM 331, BLDG 003, BARC-W  
BELTSVILLE, MARYLAND 20705-2351

***IDENTIFYING PORCINE GENES AND GENE NETWORKS INVOLVED IN EFFECTIVE RESPONSE TO PRRS VIRUS USING FUNCTIONAL GENOMICS AND SYSTEMS BIOLOGY.***

**7. ACCESSION NO:** 1015083 **SUBFILE:** CRIS  
**PROJ NO:** MINV-62-054 **AGENCY:** NIFA MINV  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** NEW  
**CONTRACT/GRANT/AGREEMENT NO:** 2018-68008-27890 **PROPOSAL NO:** 2017-08690  
**START:** 01 APR 2018 **TERM:** 31 AUG 2020  
**GRANT AMT:** \$300,000 **GRANT YR:** 2018  
**AWARD TOTAL:** \$300,000  
**INITIAL AWARD YEAR:** 2018

**INVESTIGATOR:** VanderWaal, K.; Torremorell, MO, .; Perez, AN, M.; Machado, GU, .

**PERFORMING INSTITUTION:**  
UNIV OF MINNESOTA  
ST PAUL, MINNESOTA 55108

***FORECASTING THE SPREAD OF ENDEMIC VIRUSES OF SWINE IN THE UNITED STATES***

**8 ACCESSION NO:** 1008954 **SUBFILE:** CRIS  
**PROJ NO:** TEX09644 **AGENCY:** NIFA TEX  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** TERMINATED  
**CONTRACT/GRANT/AGREEMENT NO:** 2016-67015-25041 **PROPOSAL NO:** 2015-06983  
**START:** 15 MAR 2016 **TERM:** 14 MAR 2019  
**GRANT AMT:** \$461,853 **GRANT YR:** 2016  
**AWARD TOTAL:** \$461,853  
**INITIAL AWARD YEAR:** 2016

**INVESTIGATOR:** Mwangi, W.

**PERFORMING INSTITUTION:**  
TEXAS A&M UNIVERSITY  
750 AGRONOMY RD STE 2701  
COLLEGE STATION, TEXAS 77843-0001

***EFFICACY OF PROTOTYPE LIVE-VECTORED POLYVALENT AFRICAN SWINE FEVER VIRUS VACCINES***

**9. ACCESSION NO:** 1008929 **SUBFILE:** CRIS  
**PROJ NO:** SD00G633-15 **AGENCY:** NIFA SD.  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** EXTENDED  
**CONTRACT/GRANT/AGREEMENT NO:** 2016-67016-24949 **PROPOSAL NO:** 2015-07006  
**START:** 15 FEB 2016 **TERM:** 14 FEB 2019 **FY:** 2017  
**GRANT AMT:** \$149,987 **GRANT YR:** 2016  
**AWARD TOTAL:** \$149,987  
**INITIAL AWARD YEAR:** 2016

**INVESTIGATOR:** Wang, D.

**PERFORMING INSTITUTION:**  
SOUTH DAKOTA STATE UNIVERSITY  
PO BOX 2275A  
BROOKINGS, SOUTH DAKOTA 57007

***NOVEL PORCINE EPIDEMIC DIARRHEA VIRUS VACCINE PIPELINE***

**10. ACCESSION NO:** 1002517 **SUBFILE:** CRIS  
**PROJ NO:** KS603010 **AGENCY:** NIFA KAN  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** TERMINATED  
**CONTRACT/GRANT/AGREEMENT NO:** 2012-67015-21823 **PROPOSAL NO:** 2013-07173  
**START:** 01 NOV 2013 **TERM:** 30 APR 2017 **FY:** 2017  
**GRANT AMT:** \$437,553.78 **GRANT YR:** 2014  
**AWARD TOTAL:** \$437,553.78  
**INITIAL AWARD YEAR:** 2012

**INVESTIGATOR:** Fang, Y.

**PERFORMING INSTITUTION:**  
KANSAS STATE UNIV  
MANHATTAN, KANSAS 66506

***INNOVATIVE STRATEGIES TO ENHANCE PRRSV SPECIFIC INNATE AND MUCOSAL IMMUNITY:  
IMPLICATION FOR DEVELOPMENT OF BROADLY PROTECTIVE PRRS***

**11. ACCESSION NO:** 1000876 **SUBFILE:** CRIS  
**PROJ NO:** VA-Meng-PRRSV-2013 **AGENCY:** NIFA VA.  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** EXTENDED  
**CONTRACT/GRANT/AGREEMENT NO:** 2013-67015-21342 **PROPOSAL NO:** 2013-01131  
**START:** 01 SEP 2013 **TERM:** 31 AUG 2019 **FY:** 2017  
**GRANT AMT:** \$499,988 **GRANT YR:** 2013  
**AWARD TOTAL:** \$499,988  
**INITIAL AWARD YEAR:** 2013

**INVESTIGATOR:** Meng, X.; Opriessnig, TA, I.; Subramaniam, SA.

**PERFORMING INSTITUTION:**  
VIRGINIA POLYTECHNIC INSTITUTE  
BLACKSBURG, VIRGINIA 24061

***IDENTIFICATION OF IMMUNODOMINANT CD8 T CELL EPITOPES OF MULTIPLE HETEROLOGOUS PRRSV  
STRAINS FOR VACCINE DEVELOPMENT***

**12. ACCESSION NO:** 0227846 **SUBFILE:** CRIS  
**PROJ NO:** VA-422273 **AGENCY:** NIFA VA.  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** TERMINATED  
**CONTRACT/GRANT/AGREEMENT NO:** 2012-67015-19469 **PROPOSAL NO:** 2011-02801  
**START:** 01 MAY 2012 **TERM:** 30 APR 2017 **FY:** 2017  
**GRANT AMT:** \$499,500 **GRANT YR:** 2012  
**AWARD TOTAL:** \$499,500  
**INITIAL AWARD YEAR:** 2012

**INVESTIGATOR:** Meng, X.; Meng, X. J.

**PERFORMING INSTITUTION:**  
VIRGINIA POLYTECHNIC INSTITUTE  
BLACKSBURG, VIRGINIA 24061

***A MULTICOMPONENT VIRUS VECTORED VACCINE FOR PRRS, PCVAD AND SWINE INFLUENZA***

**13. ACCESSION NO:** 1012602 **SUBFILE:** CRIS  
**PROJ NO:** SD00G646-17 **AGENCY:** NIFA SD.  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** NEW  
**CONTRACT/GRANT/AGREEMENT NO:** 2017-67016-26775 **PROPOSAL NO:** 2016-09508  
**START:** 01 JUL 2017 **TERM:** 30 JUN 2019 **FY:** 2017  
**GRANT AMT:** \$150,000 **GRANT YR:** 2017  
**AWARD TOTAL:** \$150,000  
**INITIAL AWARD YEAR:** 2017

**INVESTIGATOR:** Kaushik, R.

**PERFORMING INSTITUTION:**  
SOUTH DAKOTA STATE UNIVERSITY  
PO BOX 2275A  
BROOKINGS, SOUTH DAKOTA 57007

***ROLE OF NASAL MICROBIOTA IN IMMUNITY AND INFLUENZA VIRUS INFECTION IN PIGS***

**14. ACCESSION NO:** 1009153 **SUBFILE:** CRIS  
**PROJ NO:** MINV-63-120 **AGENCY:** NIFA MINV  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** NEW  
**CONTRACT/GRANT/AGREEMENT NO:** 2016-67015-24928 **PROPOSAL NO:** 2015-06966  
**START:** 15 FEB 2016 **TERM:** 14 FEB 2019 **FY:** 2017  
**GRANT AMT:** \$495,000 **GRANT YR:** 2016  
**AWARD TOTAL:** \$495,000  
**INITIAL AWARD YEAR:** 2016

**INVESTIGATOR:** Dvorak, C. M.

**PERFORMING INSTITUTION:**  
UNIV OF MINNESOTA  
ST PAUL, MINNESOTA 55108

***BROADLY NEUTRALIZING ANTIBODIES FOR PRRSV***

**15. ACCESSION NO:** 1012392 **SUBFILE:** CRIS  
**PROJ NO:** FLA-ANS-005605 **AGENCY:** NIFA FLA  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** NEW  
**CONTRACT/GRANT/AGREEMENT NO:** 2017-67030-26509 **PROPOSAL NO:** 2016-09448  
**START:** 15 MAY 2017 **TERM:** 14 MAY 2019 **FY:** 2017  
**GRANT AMT:** \$100,000 **GRANT YR:** 2017  
**AWARD TOTAL:** \$100,000  
**INITIAL AWARD YEAR:** 2017

**INVESTIGATOR:** Driver, J. P.; Castleman, WI, L..

**PERFORMING INSTITUTION:**  
UNIVERSITY OF FLORIDA  
G022 MCCARTY HALL  
GAINESVILLE, FLORIDA 32611

***TESTING A ROLE FOR NKT CELLS FOR SWINE INFLUENZA IMMUNITY***

**16 ACCESSION NO:** 1008862 **SUBFILE:** CRIS  
**PROJ NO:** NEB-99-908 **AGENCY:** NIFA NEB  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** NEW  
**CONTRACT/GRANT/AGREEMENT NO:** 2016-67015-24922 **PROPOSAL NO:** 2015-06921  
**START:** 15 FEB 2016 **TERM:** 14 FEB 2019 **FY:** 2017  
**GRANT AMT:** \$477,635 **GRANT YR:** 2016  
**AWARD TOTAL:** \$477,635  
**INITIAL AWARD YEAR:** 2016

**INVESTIGATOR:** Vu, H.

**PERFORMING INSTITUTION:**  
UNIVERSITY OF NEBRASKA  
LINCOLN, NEBRASKA 68583

***CORRELATES OF CROSS-PROTECTIVE IMMUNITY TO PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS***

**17. ACCESSION NO:** 1012491 **SUBFILE:** CRIS  
**PROJ NO:** SD00G647-17 **AGENCY:** NIFA SD.  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** NEW  
**CONTRACT/GRANT/AGREEMENT NO:** 2017-67016-26776 **PROPOSAL NO:** 2016-09475  
**START:** 15 JUL 2017 **TERM:** 14 JUL 2019 **FY:** 2017  
**GRANT AMT:** \$149,721 **GRANT YR:** 2017  
**AWARD TOTAL:** \$149,721  
**INITIAL AWARD YEAR:** 2017

**INVESTIGATOR:** Tummala, H.

**PERFORMING INSTITUTION:**  
SOUTH DAKOTA STATE UNIVERSITY  
PO BOX 2275A  
BROOKINGS, SOUTH DAKOTA 57007

***DEVELOPMENT OF A NOVEL PATHOGEN MIMICKING VACCINE DELIVERY SYSTEM FOR SWINE INFLUENZA***

**18. ACCESSION NO:** 1000818 **SUBFILE:** CRIS  
**PROJ NO:** ILLV44-6765 **AGENCY:** NIFA ILLV  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** TERMINATED  
**CONTRACT/GRANT/AGREEMENT NO:** 2013-67015-21243 **PROPOSAL NO:** 2013-01210  
**START:** 01 SEP 2013 **TERM:** 31 AUG 2018 **FY:** 2017  
**GRANT AMT:** \$499,199 **GRANT YR:** 2013  
**AWARD TOTAL:** \$499,199  
**INITIAL AWARD YEAR:** 2013

**INVESTIGATOR:** Yoo, D.

**PERFORMING INSTITUTION:**  
UNIVERSITY OF ILLINOIS  
2001 S. Lincoln Ave.  
URBANA, ILLINOIS 61801

***IMMUNE EVASION OF PRRS VIRUS AND A NOVEL STRATEGY FOR VACCINE DESIGN***

**19. ACCESSION NO:** 1008934 **SUBFILE:** CRIS  
**PROJ NO:** GEOV-0560 **AGENCY:** NIFA GEOV  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** NEW  
**CONTRACT/GRANT/AGREEMENT NO:** 2016-67015-24924 **PROPOSAL NO:** 2015-07012  
**START:** 15 FEB 2016 **TERM:** 14 FEB 2019 **FY:** 2016  
**GRANT AMT:** \$450,000 **GRANT YR:** 2016  
**AWARD TOTAL:** \$450,000  
**INITIAL AWARD YEAR:** 2016  
**INVESTIGATOR:** He, B.  
**PERFORMING INSTITUTION:**  
UNIVERSITY OF GEORGIA  
200 D.W. BROOKS DR  
ATHENS, GEORGIA 30602-5016

***DEVELOPING A PARAINFLUENZA VIRUS 5 (PIV5)-BASED PRRSV VACCINE***

**20 ACCESSION NO:** 1011110 **SUBFILE:** CRIS  
**PROJ NO:** VA-Catanzaro **AGENCY:** NIFA VA.  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** EXTENDED  
**CONTRACT/GRANT/AGREEMENT NO:** 2017-67011-26045 **PROPOSAL NO:** 2016-04845  
**START:** 01 JAN 2017 **TERM:** 30 JUN 2019 **FY:** 2017  
**GRANT AMT:** \$95,000 **GRANT YR:** 2017  
**AWARD TOTAL:** \$95,000  
**INITIAL AWARD YEAR:** 2017

**INVESTIGATOR:** Catanzaro, N.

**PERFORMING INSTITUTION:**  
VIRGINIA POLYTECHNIC INSTITUTE  
BLACKSBURG, VIRGINIA 24061

***ELUCIDATING THE MECHANISMS OF PRRSV IMMUNE EVASION MEDIATED BY NSP1A AND NSP2***

**21. Ramamoorthy. S, Webb. B, Pillatzki. A. FIRST RESPONSE VACCINES FOR EMERGENCY PREPAREDNESS. USDA-NIFA STANDARD FOUNDATION AWARD. June 2018-June 2020. \$337,425**  
NORTH DAKOTA STATE UNIVERSITY  
FARGO ND

**22. Ramamoorthy. S, Webb. B, Pillatzki. A. A PORCINE MODEL FOR TORQUE TENO VIRUS (TTV) INFECTIONS. NIH-NIAID R21 award. Jan 2018-Jan 2020. \$412,625**

NORTH DAKOTA STATE UNIVERSITY

FARGO ND

**23 ACCESSION NO:** 1012386 **SUBFILE:** CRIS  
**PROJ NO:** SD00G645-17 **AGENCY:** NIFA SD.  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** NEW  
**CONTRACT/GRANT/AGREEMENT NO:** 2017-67015-26909 **PROPOSAL NO:** 2016-09511  
**START:** 15 AUG 2017 **TERM:** 14 AUG 2020 **FY:** 2017  
**GRANT AMT:** \$500,000 **GRANT YR:** 2017  
**AWARD TOTAL:** \$500,000  
**INITIAL AWARD YEAR:** 2017

**INVESTIGATOR:** Diel, D. G.

**PERFORMING INSTITUTION:**  
SOUTH DAKOTA STATE UNIVERSITY

**24. ACCESSION NO:** 1012855 **SUBFILE:** CRIS  
**PROJ NO:** KS8012236 **AGENCY:** NIFA KAN  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** NEW  
**CONTRACT/GRANT/AGREEMENT NO:** 2017-67015-26774 **PROPOSAL NO:** 2016-09462  
**START:** 01 JUL 2017 **TERM:** 30 JUN 2020 **FY:** 2017  
**GRANT AMT:** \$331,450 **GRANT YR:** 2017  
**AWARD TOTAL:** \$331,450  
**INITIAL AWARD YEAR:** 2017

**INVESTIGATOR:** Rowland, R.

**PERFORMING INSTITUTION:**  
KANSAS STATE UNIV  
MANHATTAN, KANSAS 66506

***PREVENTING PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME (PRRS) THROUGH MODIFICATIONS IN THE VIRUS RECEPTOR, CD163***

**25. Project Type:** AFRI COMPETITIVE GRANT  
Contract No. : 2018-67015-28294  
AWARD TOTAL: \$ 489,934  
START: 1 Jun 2018 TERM: May 31 2021  
INVESTIGATOR: VU, H  
UNIVERSITY OF NEBRASKA LINCOLN

**DEVELOPMENT OF A BROADLY PROTECTIVE DIVA MARKER VACCINE AGAINST PRRSV**

**26. ACCESSION NO:** 1005442 **SUBFILE:** CRIS  
**PROJ NO:** KS603357 **AGENCY:** NIFA KAN  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** NEW  
**CONTRACT/GRANT/AGREEMENT NO:** 2015-67015-22969 **PROPOSAL NO:** 2014-06403  
**START:** 01 JAN 2015 **TERM:** 31 DEC 2019 **FY:** 2017  
**GRANT AMT:** \$472,179 **GRANT YR:** 2015  
**AWARD TOTAL:** \$472,179  
**INITIAL AWARD YEAR:** 2015

**INVESTIGATOR:** Fang, Y.

**PERFORMING INSTITUTION:**  
KANSAS STATE UNIV  
MANHATTAN, KANSAS 66506

***A NOVEL ARTERIVIRUS PROTEIN AND EXPRESSION MECHANISM: IMPLICATION IN VACCINE AND COMPANION DIAGNOSTIC ASSAY DEVELOPMENT***

**27. ACCESSION NO:** 1012427 **SUBFILE:** CRIS  
**PROJ NO:** NEB-26-230 **AGENCY:** NIFA NEB  
**PROJ TYPE:** AFRI COMPETITIVE GRANT **PROJ STATUS:** NEW  
**CONTRACT/GRANT/AGREEMENT NO:** 2017-67015-26634 **PROPOSAL NO:** 2016-09374  
**START:** 01 JUL 2017 **TERM:** 30 JUN 2019 **FY:** 2017



**GRANT AMT:** \$459,200 **GRAN T YR:** 2017  
**AWARD TOTAL:** \$459,200  
**INITIAL AWARD YEAR:** 2017

**INVESTIGATOR:** Ciobanu, D. C.

**PERFORMING INSTITUTION:**  
UNIVERSITY OF NEBRASKA  
LINCOLN, NEBRASKA 68583

***INVESTIGATION OF HOST GENETIC ROLE IN PCV2 AND PRRSV SUSCEPTIBILITY***

**28.**USDA-AFRI COMPETITIVE GRANT , 2013-67015-20476 (MPI)

(\$2,351,639) (OSU share \$600,000)

Period: 11/01/2012 – 01/31/2018 Multiple Principal Investigators;

**INVESTIGATORS:** Chang-Won Lee (contact) and Renukaradhya Gourapura

***UNIVERSAL FLU VACCINE BY A NOROVIRUS P PARTICLE PLATFORM***

