

## Winn Feline Foundation Report of FIP Funded Projects through April 14, 2017

**Key:** W- Winn      MT- Miller Trust      Year-first 2 digits

### **The Bria Fund Projects to date:**

**Note:** The Bria Fund was founded in November of 2005. Donations were sufficient to support its first study in 2008.

**W17-021** Analysis of Plasma to Identify Biomarkers for the Diagnosis and Prognosis of FIP. *Principal Investigators:* Gregg Dean, DVM, PhD, DACVP, Kelly Santangelo, DVM, PhD, DACVP; Colorado State University. Feline infectious peritonitis (FIP) is a fatal disease of cats that causes vague symptoms and currently defies diagnosis. This study uses a novel approach to develop a simple test using plasma biomarkers for this devastating disease, Grant Amount \$25,000.

**W16-024** Exploring Humoral Responses to Non-Structural Proteins of Feline Coronaviruses, Principal Investigator: Magdalena Dunowska, BVSc, PhD; Massey University, New Zealand, Grant Amount \$25,000.

**W16-023** Mefloquine's Potential To Inhibit FIPV Infection In The Cat, Principal Investigator: Merran Govendir, BVSc, PhD, Jacqueline Norris, BVSc, PhD; The University of Sydney, Australia, Grant Amount \$11,750.

**W16-022:** Evaluating New Drug Compounds For Treating Feline Coronavirus, A Continuation Study, Principal Investigator: Brian Murphy, DVM, PhD, ACVP; Niels Pedersen, DVM, PhD; University of California, Davis, Grant Amount \$12,175.

**W15-030:** Using Small Interfering RNA For Treatment of Feline Infectious Peritonitis, Principal Investigator: Emin Anis, PhD; Rebecca Wilkes, DVM, PhD; The University of Tennessee, Grant Amount \$16,500.

**W15-026:** Systemic Feline Coronavirus and Its Relationship to FIP, Principal Investigator: Gary R. Whittaker, PhD; Cornell University, Grant Amount \$24,967.

**W15-013** A Feline Tumor Necrosis Factor Inhibitor for FIP. Principal Investigator: Yunjeong Kim, DVM, PhD, ACVIM; Kansas State University, Grant Amount \$23,758.

**W15-010:** Evaluating New Drug Compounds For Treating Feline Coronavirus, Principal Investigator: Brian Murphy, DVM, PhD, ACVP; Niels Pedersen, DVM, PhD; University of California, Davis, Grant Amount, \$14, 970.

**W14-018:** Characterizing how FIP Virus Binds and Enters Cells. Principal Investigator: Gary Whittaker; Cornell University, Grant Amount \$24,851.

**W13-020:** In Vivo Efficacy Study of Virus Protease Inhibitors Against Feline Coronaviruses in a Mouse Model, Principal Investigator: Yunjeong Kim; Kansas State University, Grant Amount \$19,920.

**W13-019:** Host Immune Response of Feline Kidney Cells to Pathogenic and Non-Pathogenic Feline Coronavirus Strains: Developing Biomarkers for FIP, Principal Investigator: Yvonne Drechsler, PhD and Pedro Diniz, DVM, PhD; Western University of Health Sciences, Grant Amount \$25,000.

**W12-026:** Anti-Immune Evasive Therapy in the Treatment of FIP - Randomized, Controlled Clinical Trial, Hans Nauwynck & Sabine Gleich; Ghent University, Grant Amount \$24,962.

**W11-008:** Evolution of Feline Infectious Peritonitis Virus Within FIP Cats and Tissue-specific Adaptation of the Virus to Activating Proteases, Gary R. Whittaker, Professor, Cornell University, Grant amount \$23,986.

**W10-039:** Development of a Novel Treatment Strategy to Inhibit the Immune Evasion Mechanism of Feline Infectious Peritonitis Virus (FIPV), Sabine Gleich, DVM; Hannah Dewerchin, DVM; Hans Nauwynck, DVM; Ghent University, Grant amount \$12,700.

**W10-038:** Polyprenyl Immunostimulant for the Treatment of the Dry Form of Feline Infectious Peritonitis, Alfred Legendre, DVM, MS, DACVIM; University of Tennessee, Grant Amount \$14,825.

**W10-037:** Development of Feline Infectious Peritonitis Therapeutics in a Mouse Model, Gary R. Whittaker, BSc (Hon), PhD; Cornell University, Grant amount \$15,000.

**W10-036:** Molecular Prevalence and Viral Load of Replicating Feline Coronavirus in the Bloodstream of Healthy Shelter Cats in Southern California, Pedro Paulo Diniz, DVM, PhD; Yvonne Drechsler, PhD; Linda Kidd, DVM, PhD, DACVIM; Frank Bossong, DVM; Ellen Collisson, MS, PhD; Western University of Health Sciences, Grant Amount \$10,000.

**W09-027:** Determining Genetic Correlates of FIP Susceptibility, Jacqueline Norris, BVSc, MVS, MASM, PhD; Steven A. Holloway BVSc, MVS, MACVSc, DACVIM, PhD; Craig McLure, BSc, PhD; The University of Sydney, Australia, Grant Amount \$12,240.

**W08-036:** Blood Parameters Potentially Associated with Susceptibility to Feline Coronavirus in Birman cats: Saverio Paltrinieri, DVM, PhD, DECVCP; University of Milan, Grant amount \$14,780.

**W08-006:** Identification of the Cellular Receptor for Feline Coronaviruses: H.F. Egberink, DVM, PhD and P.J.M. Rottier, PhD; Utrecht University, Grant Amount \$15,000.

**W08-004:** Molecular Basis of Feline Coronavirus Pathogenesis and Development of FIP in Cats, Phase One, Principal Investigator: Gary R. Whittaker, PhD; Cornell University, Grant Amount: \$15,000.

### **Miller Trust Awards: Reviewed and Selected by Winn's Grant Review Committee and Board of Directors**

**MT16-014:** Structure-based design of a novel subunit immunogen for development as a feline infectious peritonitis (FIP) vaccine, Principal Investigator: Gary Whittaker, PhD; Cornell University, Grant Amount \$30,273.

**MT11-007:** Effectiveness of Small Interfering RNA (siRNA) to Inhibit Feline Coronavirus Replication Principle Investigators Rebecca P. Wilkes, DVM, PhD, Assistant Professor; Eman Anis, BS, MS; Alfred Legendre, MS, DVM, Professor; Stephen Kania, BS, MS, PhD; The University of Tennessee College of Veterinary Medicine, Grant Amount \$23,600.

**MT13-006:** Pharmacokinetic and toxicity testing of novel feline coronavirus protease inhibitors in laboratory cats. Principal Investigator: Neils Pedersen, DVM University of California – Davis, Grant Amount \$22,464.00.

**MT13-008:** Transduction of hematopoietic stem cells to stimulate RNA interference for treatment of feline infectious peritonitis. Principal Investigator: Rebecca P. Wilkes, DVM, PhD, University of Tennessee, College of Veterinary Medicine, Grant Amount \$19,453.04.

**MT08-004:** Molecular basis of feline coronavirus pathogenesis and development of FIP in cats, phase two, Principal Investigator: Gary R. Whittaker; Cornell University, Grant Amount: \$35,514.

**MT06-015:** Screening for FCoV to the 7b protein of Feline Coronavirus in cats for detection of persistent infection, Principal Investigator: Melissa Kennedy, DVM, PhD, University of Tennessee, Grant Amount: \$14,750.

**MT05-005:** Phase II studies on the heritability resistance/susceptibility to FECV infection in randomly-bred, colony-reared, domestic cats, Principal Investigator: Niels Pedersen, Leslie Lyons; University of California-Davis, Grant Amount: \$15,000.

**MT04-015:** Phase II studies on the heritability resistance/susceptibility to FECV infection in randomly-bred, colony-reared, domestic cats, Principal Investigator: Niels Pedersen, Leslie Lyons; University of California-Davis, Grant Amount: \$15, 000.

**Note: The following FIP research projects were funded by the Winn Feline Foundation before Susan E. Gingrich founded the Bria Fund for FIP Research:**

**W04-005:** Post transcriptional changes of Alpha-1-Acid Glycoprotein during Feline Coronavirus infections, Principal Investigator: Saverio Paltrinieri, DVM, PHD, DECVCP; Fabrizio Ceciliani, DVM, PhD; Alessia Giordano, DVM and Vanessa Pocacqua; University of Milan, Italy, Grant Amount: \$14, 489.

**W02-025:** Screening for FCoV 7b antibodies for diagnosis of FIP, Principal Investigator: Melissa Kennedy, Stephen Kania, University of Tennessee, Grant Amount: \$15, 000.

**W02-023:** Immunopathogenesis of systemic FIP and prospects of intervention, Principal Investigator: Janet Foley, University of California-Davis, Grant Amount: \$15,000.

**W01-015:** Immunopathogenesis and medical intervention in neurological FIP, Principal Investigator: Janet Foley, University of California-Davis, Grant Amount: \$14, 500.

**W03-024:** Healthy carriers of feline coronavirus, Principal Investigator: Diane D. Addie, Department of Veterinary Pathology, University of Glasgow, Grant Amount: \$15, 000.

**W97-FOLEY:** The influence of age and passive systemic immunity on the severity and duration of Feline Enteric Coronavirus infection, Principal Investigator: J.E. Foley, DVM, MS, PhD; N.C. Pedersen, DVM, PhD; University of California, Davis, Grant Amount: \$10, 000.

**W98-ADDIE:** Virus excretion in Feline Coronavirus excretion, Principal Investigator: Diane D. Addie, PhD; Oswald Jarrett, BVMS, PhD; University of Glasgow, Scotland, Grant Amount: \$15, 000.

**W97-ADDIE:** Feline Coronavirus excretion, Principal Investigator: Diane D. Addie, BVMS, RCVS, PhD; Oswald Jarrett, BVMS, RCVS, PhD; University of Glasgow, Scotland, Grant Amount: \$15, 000.

**NOTE:** There were are earlier FIP studies funded by Winn. Information was not available at the time this document was prepared.

More information about specific studies can be found on [www.winnfelinefoundation.com](http://www.winnfelinefoundation.com)