



South Dakota
State University

Graduate School

Office of Research
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March 14, 2007

Mr. Edward Hammond
The Sunshine Project
1920 Stuart Street
Berkeley, CA 94703

Dear Mr. Hammond:

We recently received a letter from the NIH Office of Biotechnology Activities to inform us that the Sunshine Project has filed a complaint that South Dakota State University has been unresponsive to a 2006 request for meeting minutes of our Institutional Biosafety Committee (IBC).

Enclosed, please find our records for all projects that were received by our IBC for May 2003 through current. Our records reflect the primary investigator responsible for the project, the project title, the date that approval was requested, the project's primary purpose the action taken by the IBC, and the date of IBC action.

Your request for this information was received by my office via fax on 12 October 2006. The fax indicates that similar requests were made six months prior to October 2006; however, I do not recall receiving such a request nor do we have any record of such.

I apologize for the delayed response and hope this meets your needs.

Sincerely,

Kevin D. Kephart
Vice President for Research
Dean, Graduate School

CC: Michelle Johnson-Lancaster
IBC Coordinator, NIH - OBA

Institutional Biosafety Committee Projects

South Dakota State University

Report on activity since May 2003

2007

Investigator: Ying Fang

Project Title: "Chimeric PRRSV Vaccine Development Based on a US Type 1 PRRSV Full-Length cDNA Infectious Clone"

Submission Date: January 8, 2007

Purpose: To determine if novel chimeric Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) virions can be successfully engineered based on a US Type 1 PRRSV infectious clone backbone.

Action: Proposed and approved at BL2 level

Approval Date: February 8, 2007

IBC Members Participating: Kephart, Chase, McGrath, Stangeland, Sutton, West , Yarrow

IBC Members Not Participating: Carter

Investigator: Philip Hardwidge

Project Title: "Quantification of Enterotoxin-Mediated Enhancement of Bacterial Adherence to Intestinal Epithelial Cells"

Submission Date: January 8, 2007

Purpose: To test if bacterial enterotoxins (*Escherichia coli* 3030-2, or ETEC) precondition the host intestinal epithelium for colonization by the population of bacteria from which the toxins are expressed.

Action: Committee approved as BL1

Approval Date: February 8, 2007

IBC Members Participating: Kephart, Chase, McGrath, Stangeland, Sutton, West , Yarrow

IBC Members Not Participating: Carter

2006

Investigator: Weiping Zhang

Project Title: "Development of an Additive Model to Study the Significance of Heat-Labile and Heat Stable Enterotoxins in Enterotoxigenic Escherichia Coli Associated Diarrhea Disease"

Submission Date: November 1, 2006 (received 11/13/06)

Purpose: Cloning estAB, estA and estB genes separately for expression of heat-labile and heat stable toxins.

Action: Ruled to be exempt.

IBC Members Participating: Kephart, Chase, McGrath, Stangeland, Sutton, West , Yarrow

IBC Members Not Participating: Carter

Investigator: Ying Fang

Project Title: "In Vivo Evaluation of Genetic Markers in the Nsp2 Region of Porcine Reproductive and Respiratory Syndrome Virus: Implication for Future Recombinant Marker Vaccine Development"

Submission Date: October 23, 2006 (received 10/23/06)

Purpose: To determine the *in vivo* biological properties of the Nsp2 marker viruses and to study the potential of using these Nsp2 epitope-specific ELISAs to identify and differentiate vaccinated animals from those of naturally infected animals.

Action: Committee approved as partly exempt (GFP protein experiments) part approve at BL1 level (infectious clone experiments). It was noted that the researcher has BL2 containment available in the lab. Add description of procedure used to dispose of pigs (incineration).

Approval Date: October 27, 2006

IBC Members Participating: Kephart, Chase, McGrath, Stangeland, Sutton, West , Yarrow

IBC Members Not Participating: Carter

Investigator: Jeffrey Clapper

Project Title: "Regulation of Hormone Secretion by Cultured Porcine Anterior Pituitary Cells"

Submission Date: October 19, 2006 (received 10/23/06)

Purpose: To determine if administration of E2, IGF-I, R³IGF-I, IGF-BPs and combinations thereof increase the response of porcine AP cells *in vitro* to gonadotropin-releasing hormone.

Action: Discussion of whether the activity was exempt. Approved at BL1.

Approval Date: November 13, 2006

IBC Members Participating: Kephart, Chase, McGrath, Stangeland, Sutton, West , Yarrow

IBC Members Not Participating: Carter

Investigators: Jose L. Gonzalez, Donald Auger, Thomas Cheesbrough, Din Chen

Project Title: "Metabolomics and Functional Genomics of Seed Lipid Biosynthesis in *Cuphea*"

Submission Date: October 6, 1006

Purpose: To analyze metabolic flux through the fatty acids biosynthesis pathway and its interactions with other pathways in *Cuphea*.

Action: Approved at BL1-P level.

Approval Date: November 13, 2006

IBC Members Participating: Kephart, Chase, McGrath, Stangeland, Sutton, West , Yarrow

IBC Members Not Participating: Carter

Investigator: Marie-Laure Sauer

Project Title: "Use of Green Algae for Heterologous Protein Expression and Production"

Submission Date: September 28, 2006

Purpose: To determine the optimal culture conditions for unicellular green algae protein expression, generate enhanced GFP sequences, construct vectors for nuclear and chloroplast transformation and perform nuclear and chloroplast transformation with GFP recombinant DNA.

Action: Approved at BL2 level, Dr. Sutton did not vote because she is a collaborator.

Approval Date: November 10, 2006

IBC Members Participating: Kephart, Chase, McGrath, Stangeland, Sutton, West , Yarrow

IBC Members Not Participating: Carter

Investigator: Ying Fang

Project Title: “The Role of PRRSV Nonstructural Protein 2 in Viral Replication”

Submission Date: April 20, 2006

Purpose: To develop an *in vitro* system for the study of the NSP2 function and determine the effect of blocking NSP2 cysteine protease cleavage on PRRSV replication using reverse genetics.

Action: Approved at BL1 level. (Investigator has BL2 containment in place.

Approval Date: May 9, 2006

IBC Members Participating: Kephart, Chase, McGrath, Stangeland, Sutton, West , Yarrow

IBC Members Not Participating: Carter

2005

Investigator: Ying Fang

Project Title: “Genetic Marker Development in the Nsp2 Region of a European-like PRRSV: Implications for Future Recombinant Marker Vaccine Development”

Submission Date: May 26, 2005

Purpose: To insert a marker into the unique deletion site of the Nsp2 region of a European-like infectious clone and mutate a conserved epitope in the Nsp2 region.

Action: Committee approved as partly exempt (GFP protein experiments) part approve at BL1 level (infectious clone experiments). It was noted that the researcher has BL2 containment available in the lab.

Approval Date: June 10, 2005

IBC Members Participating: Hilderbrand, Chase, McGrath, Stangeland, Sutton, West , Yarrow

IBC Members Not Participating: Carter

2004

Investigator: Eric Nelson

Project Titles: (1) “Production of Monoclonal Antibodies Against the SARS Coronavirus Nucleocapsid (N) and Spike (S) Proteins”; (2) “Characterization of Emerging European-Like PRRSV in the U.S.: Implications for Diagnostic and Control Strategies”

Submission Date: May 20, 2004

Action: Project 1 deemed to be exempt. Project 2 approved as exempt (protein expression) and BL1 (infectious clone experiments). It was noted that the PI has BL2 containment in place in the lab.

IBC Members Participating: Hilderbrand, Chase, McGrath, Stangeland, Sutton, West , Yarrow

IBC Members Not Participating: Carter

Investigator: Volker S. Brozel

Project Title: “Bacterial Activity at Interfaces”

Submission Date: June 29, 2004

Purpose: DNA fragments of *B. cereus* and *B. subtilis* and *P. aeruginosa* to be cloned into ColE1-based or broad bacterial host range plasmid vectors.

Action: BL1 containment for *B. cereus* and *B. subtilis*. BL2 containment for *P. aeruginosa*

Approval Date: July 12, 2004

IBC Members Participating: Hilderbrand, Chase, McGrath, Stangeland, Sutton, West , Yarrow

IBC Members Not Participating: Carter

Investigator: Catherine Carter

Project Title: "Molecular Markers for Soybeans"

Submission Date: October 5, 2004

Approval Date: October 14, 2004

Purpose: Developing and analyzing molecular markers for selection of soybean cyst nematode.

Action: Deemed to be exempt. It was noted that the PI has BL1 and BL1-P procedures in place.

IBC Members Participating: Hilderbrand, Chase, McGrath, Stangeland, Sutton, West , Yarrow

IBC Members Not Participating:

Investigator: Eric Nelson

Project Title: "Creation of a Sample Resource for the Research Community and Identification of Diagnostic Targets for the Analysis of Immune Protection and Viral Persistence"

Submission Date: December 4, 2004

Action: Deemed to be exempt.

IBC Members Participating: Hilderbrand, Chase, McGrath, Stangeland, Sutton, West , Yarrow

IBC Members Not Participating: Carter

2003

Investigator: Xiuqing Wang

Project Titles: (1) "Porcine Reproductive and Respiratory Syndrome Virus"; (2) Murine Cytomegalovirus Bacterial Artificial Chromosome pSM3"

Submission Date: June 3, 2003

Purpose: (1) To construct HSV-1 vectors containing ORFs 5 and 6 of PRRSV, and evaluate the immunogenicity of the constructs. (2) To explore the use of MCMV as an immunotherapy vector.

Action: Approved at BL1

Approval Date: June 26, 2003

IBC Members Participating: Hilderbrand, Chase, McGrath, Stangeland, Sutton, West , Yarrow

IBC Members Not Participating: Carter