

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Public Affairs

Swanlund Administration Building
601 East John Street
Champaign, IL 61820



May 4, 2006

Edward Hammond
The Sunshine Project
PO Box 41987
Austin, TX 78704

Dear Mr. Hammond:

In response to receipt of your check #1564 in the amount of \$25.05, we have enclosed the documents you have requested.

You may send appeals to President B. Joseph White, 364 Henry Administration Building, University of Illinois, 506 South Wright Street, Urbana, Illinois 61801.

Sincerely,

A handwritten signature in cursive script that reads "Jaclyn Banister".

Jaclyn Banister
Staff Secretary

Enc.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE
Minutes of the August 12, 2003 Meeting

Members Present: Janice Bahr, Carol Maddox, Jennifer Eardley, J. Andrew Edwards III, Tony Goldberg, David Lawrance, Kipling Mecum, Randall Peper, Bryan White, and Brenda Wilson

Ex Officio: Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent: Hans Bohnert, Irene Cooke, Roberto Docampo, Rex Gaskins, Edwin Hahn, Lois Hoyer, Schuyler Korban, and Silvia Moreno

Call to Order

Janice Bahr called the meeting to order at 10:05 AM.

Introduction

Janice Bahr introduced Linda Arseneau, who had recently been hired by the Biological Safety Section as a Biosafety Professional. She will be regularly attending the meetings as a guest.

Approval of Minutes

Minutes from the July 8, 2003 meeting were presented and approved unanimously.

Projects Registered or Updated with the Biological Safety Section after July 8 Meeting

Kris Lambert, Crop Sciences

Analysis of metabolite partitioning in the shikimate pathway of Arabidopsis thaliana

Rodney Johnson, Animal Sciences

The effects of IL-6 on learning and memory

Martha Gillette, Cell and structural Biology

Physiological substrates of a circadian oscillator (Update)

David Kranz, Biochemistry

Single chain anti-T cell receptors

Eric Oldfield, Chemistry

Computational approaches to chemotherapy and immunotherapy

Steven Huber, USDA

Identification of key residues controlling the functions of sucrose synthase and 14-3-3 proteins in vitro and in vivo

Wilfred van der Donk, Chemistry

Biosynthetic enzymes involved in lanthionine formation

Andrei Kuzminov, Microbiology

Disintegration of replication forks and their recombinational repair

Peter Schweitzer, Biotechnology Center

DNA services

Biological Safety Committee: Janice Bahr, Chair • Carol Maddox, Co-Chair • Hans Bohnert • Irene Cooke
Roberto Docampo • Jennifer Eardley • J. Andrew Edwards, III • Rex Gaskins • Tony Goldberg • Edwin Hahn
Schuyler Korban • Lois Hoyer • David Lawrance • Roderick Mackie • Kipling Mecum • Monica Miller • Silvia Moreno
George Ordal • Randall Peper • Kristine Stolte • Bryan White • Brenda Wilson

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Projects approved by e-mail vote after July 8 meeting

Romana Nowak, Animal sciences

The effect of PRRS virus on gene expression in cycling gilts: a pilot study

Biohazard Projects Requiring Review

1. John Cronan, Jr., Microbiology

Genetic approaches to the regulation of lipid metabolism

This project required review because of the growth of *Escherichia coli* 0157:H7, a RG-2 agent. The Committee voted unanimously with a voice vote to approve the project with standard BL-2 containment practices.

2. James Pettigrew, Animal Sciences

Impact of various cereals and cereal processing on nursery pigs: disease resistance and gastrointestinal bacterial populations

3. Stephen Kaufman, Cell and Structural Biology

Integrin alleviation of muscular dystrophy

This project was a continuation of an approved protocol. However, it required review because recombinant DNA in an adenovirus vector, a RG-2 agent, was now added to the previous protocol. The Committee by a unanimous voice vote decided to table review of the project, because insufficient information was provided. Dr. Kaufman will receive a request to provide this information. Note that the original project registration (without adenovirus) was temporarily extended so that the new Animal Use Protocol (from DAR) would be valid in the interim.

4. Benita Katzenellenbogen, Cell and Structural Biology

Therapeutic targeting of the estrogen hormonal pathway for breast cancer prevention and treatment

This project required review for the use of adenovirus, a RG-2 agent, as a recombinant DNA vector. The Committee approved the project unanimously by a voice vote. Standard BL-2 containment will be required.

5. Benita Katzenellenbogen, Cell and Structural Biology

Antiestrogens: mechanism of antagonist action

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This project required review for the use of adenovirus, a RG-2 agent, as a recombinant DNA vector. The primary reviewer was scheduled to be absent from the meeting. The written review was not also available at the start of the meeting. The Committee decided unanimously by a voice vote to delay consideration until receipt of the review.

Discussion

Committee Membership Changes

The Chairs expressed their gratitude to members who had resigned (J. Andrew Edwards, George Ordal, and Kristine Stolte) or were rotating to the status of ad hoc reviewers (Tony Goldberg, Lois Hoyer, Schuyler Korban, Roderick Mackie, Silvia Moreno, and Bryan White). Special thanks were accorded to Andy Edwards for his many years of service as a community representative on the Committee.

The roster of new full Committee membership was announced: Steven Clough (USDA), Bettina Francis (Entomology), Milton McAllister (Veterinary Pathobiology), Phillip Newmark (Cell and Structural Biology), Dave Remmert (Champaign-Urbana Public Health District), David Rivier (Cell and Structural Biology), Gail Scherba (Veterinary Pathobiology), and Jay Timmons (Ceres Management Corp).

Adjournment

The meeting was adjourned at 11:17.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE

Minutes of the December 9, 2003 Meeting (Amended)

Members Present Leanne Alworth (DAR representative in lieu of Randall Peper), Janice Bahr, Roberto Docampo, Jennifer Eardley, Bettina Francis, Rex Gaskins, Edwin Hahn, David Lawrance, Carol Maddox, Milton McAllister, Kipling Mecum, Jay Timmons, and Brenda Wilson

Ex Officio: Irene Cooke

Guests: Linda Arseneau

Members Absent Hans Bohnert, Steven Clough, Monica Miller, Phillip Newmark, David Remmert, David Rivier, and Gail Scherba

Call to Order Carol Maddox called the meeting to order at 10:04.

Approval of Minutes

Minutes from the November 11, 2003 meeting were presented and approved unanimously by voice vote.

Biohazard Projects Requiring Review

4. Benita Katzenellenbogen, Cell and Structural Biology
SERM (selective estrogen receptor modulator) regulated gene expression in breast cancer cells

This project required review because of *in vitro* experiments involving recombinant DNA using Adenovirus 5 as a vector. This project was approved unanimously by voice vote. BSL-2 containment will be required.

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Bohnert • Steven Clough • Irene Cooke • Roberto Docampo • Jennifer Eardley • Bettina Francis • Rex Gaskins • Edwin Hahn • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Phillip Newmark • Randall Peper • David Remmert • David Rivier • Gail Scherba • Jay Timmons • Brenda Wilson

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Recombinant DNA Projects Requiring Review

5. Raven Huang, Biochemistry

Molecular recognition and mechanisms of tRNA modifications

This project required review because of *in vitro* experiments involving recombinant DNA using HIV-Reverse Transcriptase clones. This project was tabled for lack of information regarding the source of the HIV-RT clone, specifics on the yeast type being used, and a reference for the PLM-1. The BSC required that a letter be sent to Dr. Huang stating the deficiencies in his project registration. The BSC assigned a two-week deadline for receipt of his response. The BSC required the notification of Dr. Huang's Department Head if he fails to respond by the deadline.

Discussion

Project Registrations

During the course of discussion on a project registration, questions of exactly what authority the BSC has and what course of action are they willing to take to meet compliance for project registration. Suggestions were made to certify laboratories in an attempt to increase compliance with project registration. Questions pertaining to lab certification were: 1. Would this be approved by Government Agencies? 2. Are other Biosafety Committee's certifying laboratories? Another suggestion to increase project registration compliance proposed streamlining the process of project registration by submitting updates on-line and PI's having on-line access to their previous project registration submissions. Irene Cooke suggested the formation of a subcommittee to address these issues/suggestions.

Adjournment

The meeting was adjourned at 11:24.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE
Minutes of the July 8, 2003 Meeting

Members Present: Janice Bahr, Carol Maddox, Hans Bohnert, Roberto Docampo, J. Andrew Edwards III, Edwin Hahn, David Lawrance, Kipling Mecum, Randall Peper, and Kristine Stolte

Ex Officio: Irene Cooke and Monica Miller

Guest: Michael Vodkin

Members Absent: Jennifer Eardley, Rex Gaskins, Tony Goldberg, Lois Hoyer, Roderick Mackie, Silvia Moreno, Bryan White, and Brenda Wilson

Call to Order

Janice Bahr called the meeting to order at 10:05 AM.

Approval of Minutes

Minutes from the May 13 and June 10, 2003 meetings were presented and approved unanimously.

Projects Registered or Updated with the Biological Safety Section after June 10 Meeting

Yanyan Wang, Molecular and Integrative Physiology

Dissecting the neurophysiological substrates of levodopa-induced dyskinesia using dopamine D2L knockout mice as a model system

Sharon Donovan, Food Science and Human Nutrition

Influence of dietary components on porcine group A rotavirus infectivity and recovery in neonatal piglets (updated)

Paul Cooke, Veterinary Biosciences

Control of thyroid hormone function on Sertoli cell proliferation and function (amended)

Charles Cox, Molecular and Integrative Physiology

Role of vasoactive intestinal peptide in neuronal excitability (amended)

Joanna Shisler, Microbiology

Poxvirus regulation of NF-kB: mechanisms for virulence (update)

Projects Approved via Email Vote

Sharon Donovan, Food Science and Human Nutrition

Influence of dietary components on porcine group rotavirus infectivity and recovery in neonatal piglets

Previously Presented Projects Requiring Review

Biological Safety Committee: Janice Bahr, Chair • Carol Maddox, Co-Chair • Hans Bohnert • Irene Cooke
Roberto Docampo • Jennifer Eardley • J. Andrew Edwards, III • Rex Gaskins • Tony Goldberg • Edwin Hahn
Schuyler Korban • Lois Hoyer • David Lawrance • Roderick Mackie • Kipling Mecum • Monica Miller • Silvia Moreno
George Ordal • Randall Peper • Kristine Stolte • Bryan White • Brenda Wilson

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1. Donald White, Crop Science

Creation of commercially usable corn inbreds and hybrids with resistance to aflatoxin production

Biohazard Projects Requiring Review

2. Mark Kuhlenschmidt, Veterinary Pathobiology

Mechanism of microbial adhesion of *Cryptosporidium parvum*: strategies to prevent environmental exposure and for treatment of cryptosporidiosis

3. Bruce Branham, Natural Resources and Environmental Sciences

Agronomic benefits or Roundup tolerant creeping bentgrass

This project was reviewed because it involved cultivation of a recombinant DNA plant. The project was approved unanimously by voice vote.

Discussion Items

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[REDACTED]

[REDACTED]

Adjournment

The meeting was adjourned at 11:11.

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BIOLOGICAL SAFETY COMMITTEE
Minutes of the June 10, 2003 Meeting

Members Present: Janice Bahr, J. Andrew Edwards III, Schuyler Korban, George Ordal, Randall Peper, and Kristine Stolte

Ex Officio: Irene Cooke and Monica Miller

Guest: Michael Vodkin

Members Absent: Hans Bohnert, Roberto Docampo, Jennifer Eardley, Rex Gaskins, Tony Goldberg, Edwin Hahn, Lois Hoyer, David Lawrance, Roderick Mackie, Carol Maddox, Kipling Mecum, Silvia Moreno, Bryan White, and Brenda Wilson

Call to Order

Janice Bahr called the meeting to order at 10:07 AM. The required quorum was not reached.

Approval of Minutes

Minutes from the May 13, 2003 meeting were presented, but a quorum was not reached.

Projects Registered or Updated with the Biological Safety Section after May 13 Meeting

Hugh Robertson, Entomology

Expression and functional studies of candidate gustatory receptor genes in Anopheles gambiae

Stephen Boppart, Electrical and Computer Engineering

GFP expression in mice

Romana Nowak, Animal Sciences

EMMPRIN regulates the metalloproteinases in the endometrium (update)

Humphrey Hung-Chang Yao, Veterinary Biosciences

Unveil a novel pathway in mammalian ovary development

Stephen Boppart, Electrical and Computer Engineering

Optical coherence tomography (OCT) of human tumors

Biohazard Projects Requiring Review

1. Sharon Donovan, Food Science and Human Nutrition

Influence of dietary components on porcine group rotavirus infectivity and recovery in neonatal piglets

Biological Safety Committee
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2. Donald White, Crop Science

Creation of commercially usable corn inbreds and hybrids with resistance to aflatoxin production

Discussion Items

Timeline for project registrations (Monica Miller and Michael Vodkin)

The internal timeline that will be used for project consideration was explained. An extra week has been added to allow the review member panels to submit questions to the researcher and for the researcher to respond to the queries. Questions and responses will be relayed verbatim by the Biological Safety Section.

Adjournment

The meeting was adjourned at 10:47.

UNIVERSITY OF ILLINOIS
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BIOLOGICAL SAFETY COMMITTEE
Minutes of the May 13, 2003 Meeting

Members Present: Janice Bahr, Carol Maddox, J. Andrew Edwards III, Jennifer Eardley, Edwin Hahn, David Lawrance, Kipling Mecum, George Ordal, Kristine Stolle, Joe Thulin, and Bryan White

Ex Officio: Irene Cooke and Monica Miller

Guest: Michael Vodkin

Members Absent: Hans Bohnert, Roberto Docampo, Rex Gaskins, Tony Goldberg, Lois Hoyer, Schuyler Korban, Roderick Mackie, Silvia Moreno, and Brenda Wilson

Call to Order

Carol Maddox called the meeting to order at 10:03 AM.

Approval of Minutes

Minutes from the April 8, 2003 meeting were approved on a voice vote.

At the start of the meeting, Monica Miller explained a new project numbering system. All projects that are scheduled for review by the Committee will be numbered on the Agenda. Copies of the written project assessment, as provided by the Primary Reviewer, will have the same number and will be available just before the meeting. Electronic versions of the Agenda and the previous Minutes will be sent to the membership one day prior to the scheduled meeting.

Projects Registered or Updated with the Biological Safety Section after April 8 Meeting

Steven Sonka, Agricultural and Consumer Economics

Soybean research, Illinois -Soybean Disease Biotechnology Center

Margaret Clabaugh, Division of Animal Resources

DAR general protocol

Byron Kemper, Molecular and Integrative Physiology

Regulation of Cytochrome P450 biosynthesis (update)

Nick Lauter, Crop Sciences

The molecular cloning of microhairless 1, a key tool for analyses of leaf epidermal patterning and shoot development in maize

Janice Bahr, Animal Sciences

Avian infectious bronchitis virus: a possible cause for reproductive impairment in roosters

Shuxian Li, Crop Sciences

Antifungal defensins

Previously Presented Projects Requiring Review

1. Richard Warner, Natural Resources and Environmental Sciences

Management of conservation buffers for upland wildlife in Illinois: small mammal population

Biological Safety Committee: Janice Bahr, Chair • Carol Maddox, Co-Chair • Hans Bohnert • Irene Cooke
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George Ordal • Joseph Thulin • Kristine Stolle • Bryan White • Brenda Wilson

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biology and potential as reservoirs of human diseases

2. Eric Vimr, Veterinary Pathobiology

Role of Pasteurella multocida sialylation in the host-pathogen interaction

The project was originally presented at the last meeting and now the Committee was considering the latest revisions to the project. It required review because of proposed work involving an animal pathogen with some zoonotic potential including experiments using recombinant DNA and animal challenges. The previous concerns were addressed adequately. One of the two strains of *Pasteurella multocida* is rated as a risk group 1 agent. The other (wild type) will require BL-2 containment and ABL-2 containment, when used in animal challenge studies. A motion to approve was made, seconded, and then unanimously approved by voice vote.

Biohazard Projects Requiring Review

3. Jie Chen, Cell and Structural Biology

Investigation of mTOR signaling in myogenesis and adipogenesis

This project required review because of the use of human cells and a retrovirus as a vector for recombinant DNA. The P.I. failed to include the form for human material usage and also did not include all the required information on the recombinant DNA form. The response to accidental spill and exposure of personnel to biohazards needed improvement. A motion to approve with contingencies was made, seconded, and then unanimously approved by voice vote. The review panel will assure that the P.I. addresses the contingencies appropriately in a revised project registration.

4. Federico Zuckermann, Veterinary Pathobiology

Induction and prevention of asthma in pigs

Discussion Items

New project numbering system

At the start of the meeting, Monica Miller explained a new project numbering system. All projects that are scheduled for review by the Committee will be numbered on the Agenda. Copies of the written project assessment, as provided by the Primary Reviewer, will have the same number and will be available just before the meeting. Electronic versions of the Agenda and the previous Minutes will be sent to the membership one day prior to the scheduled meeting.

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BSC form revisions

Monica has so far received only one suggestion from the Committee. She hoped that other members will forward suggestions soon.

Registration of various categories of transgenic seed

Michael Vodkin presented an oral and written rationale of why the Committee should not require the registration of commercially available transgenic seed that are grown for their intended use. Monica Miller noted that as a practice this type of recombinant DNA was not registered anyway. A motion to approve was made, seconded, and then unanimously approved by voice vote. There will be future discussion and consultation on how to deal with the registration of pre-commercial transgenic seed.

Summer schedule

The Chairs publicized that the schedule of monthly Committee Meetings will continue during the summer. Further discussion ensued on how the review process could function better, if the Committee Review Panels had an additional week to consider the projects. Then, there would be time for P.I.s to respond to feedback without losing the month review cycle. In order to reflect this new schedule, the Biological Safety Section web site will advertise that the projects must be submitted three weeks prior to the meeting date to be considered.

Adjournment

The meeting was adjourned at 11:18.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE
Minutes of the November 11, 2003 Meeting

Members Present Leanne Alworth (DAR representative in lieu of Randall Peper), Janice Bahr, Hans Bohnert, Steven Clough, Jennifer Eardley, Bettina Francis, David Lawrance, Carol Maddox, Milton McAllister, Kipling Mecum, Gail Scherba, and Brenda Wilson

Ex Officio: Irene Cooke and Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Roberto Docampo, Rex Gaskins, Edwin Hahn, Phillip Newmark, David Remmert, and Jay Timmons

Call to Order Janice Bahr called the meeting to order at 10:05.

Approval of Minutes

Minutes from the October 14, 2003 meeting were presented and approved unanimously by voice vote.

Biohazard Projects Requiring Review

1. Silvia Moreno, Veterinary Pathobiology
Pyrophosphate metabolism as a target for chemotherapy
Conflict with Committee member

This project required review because of *in vitro* and *in vivo* experiments with the human and animal pathogen, *Toxoplasma gondii*. This organism will also serve as the host for recombinant DNA. The project was approved unanimously by a voice vote. BL-2 and ABL-2 containment will be required.

2. Roberto Docampo, Veterinary Pathobiology
Pyrophosphate and polyphosphate metabolism in Trypanosoma brucei
Conflict with Committee member

This project required review because of *in vitro* and *in vivo* experiments with the animal pathogen, *Trypanosoma brucei brucei*. This organism will also serve as the host for recombinant DNA. The project was approved unanimously by a voice vote. BL-2 and ABL-2 containment will be required.

3. Roberto Docampo, Veterinary Pathobiology
Pyrophosphate analogs against L. amazonensis
Conflict with Committee member

This project required review because of *in vitro* and *in vivo* experiments with the human and animal pathogen, *Leishmania amazonensis*. This organism will also serve as the host for recombinant DNA. The project was approved unanimously by a voice vote. BL-2 and ABL-2 containment will be required.

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Bohnert • Steven Clough • Irene Cooke • Roberto Docampo • Jennifer Eardley • Bettina Francis • Rex Gaskins • Edwin Hahn • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Phillip Newmark • Randall Peper • David Remmert • David Rivier • Gail Scherba • Jay Timmons • Brenda Wilson

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4. Gavin Meerdink, Veterinary Diagnostic Laboratory
Standards kept for analytical instrument calibration

5. Dean Malvick, Crop Sciences
The use of precipitation and soil samples for early detection of released and naturally-occurring plant pathogens

This project required review because of the use of plant pathogens (*Cercopsora zeae-maydis* and *Puccinia recondita*). However, these pathogens are endemic, and no exotic strains will be used. The project was approved unanimously by voice vote. BL-1 containment will be required.

Discussion

Time limitation for project registrations: The issue of how long a biological project registration can remain in force was discussed. In a previous meeting, there was no clear resolution of the amount of elapsed time before a project registration is not considered valid. A three-year limit was initially proposed and received some support. Dr. Gail Scherba subsequently proposed a five-year limit. This proposal passed unanimously by voice vote. Projects registered for longer than five years must go through an independent re-registration in order to remain valid.

Adjournment

The meeting was adjourned at 11:27.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE
Minutes of the October 14, 2003 Meeting

Members Present: Leanne Alworth (DAR representative in lieu of Randall Peper), Janice Bahr, Steven Clough, Roberto Docampo, Bettina Francis, David Lawrance, Carol Maddox, Milton McAllister, Phillip Newmark, Gail Scherba, and Brenda Wilson

Ex Officio: Irene Cooke and Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent: Hans Bohnert, Jennifer Eardley, Rex Gaskins, Kipling Mecum, Randall Peper, David Remmert, and Jay Timmons

Call to Order

Dr. Bahr called the meeting to order at 10:03 AM.

Introduction

Janice Bahr had several new members introduce themselves and identify their affiliation.

Approval of Minutes

Minutes from the September 9, 2003 meeting were presented and approved unanimously by voice vote.

Projects Registered or Updated with the Biological Safety Section after September 9 Meeting

Alvaro Hernandez, Biotechnology Center
USDA Leafy Spurge normalized cDNA library

Alvaro Hernandez, Biotechnology Center
USDA two cassava normalized DNA libraries

Richard Kollmar, Molecular and Integrative Physiology
Molecular genetics of otolith formation in the zebrafish

James Slauch, Microbiology
Molecular mechanisms of Salmonella pathogenesis: resistance to superoxide in Salmonella
(Update)

Chad Rienstra, Chemistry
High-throughput protein structure determination by 3D magic-angle spinning solid-state NMR

Stephen Kaufman, Cell and Structural Biology
Integrin alleviation of muscular dystrophy (Update)

John Erdman, Food Science and Human Nutrition
Component interactions for efficacy of functional foods

Bettina Francis, Entomology
Extraction of DNA from cheek cells

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Bohnert • Steven Clough • Irene Cooke • Roberto Docampo • Jennifer Eardley • Bettina Francis • Rex Gaskins • Edwin Hahn • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Phillip Newmark • Randall Peper • David Remmert • David Rivier • Gail Scherba • Jay Timmons • Brenda Wilson

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Paul Cooke, Veterinary Biosciences

Role of p27/p21 and estrogen receptor alpha in adipose tissue development (Update)

Chi-Hing Cheng, Animal Biology

Structure-function of Antarctic lens crystallins

Elvira de Mejia, Food Science and Human Nutrition

Ardisia compressa tea components as antiproliferative and proapoptotic agents against colon cancer development

Project approved by email vote after September 9 meeting

Gail Scherba, Veterinary Pathobiology

Aujeszky's disease virus in swine as a virus-natural host interactive model for human Alphaherpesvirus biology

Conflict with committee member

Dr. Scherba's original project registration lacked Form 2 and omitted several other details at the time of submission. The Committee voted that this registration could be submitted for email consideration, when all the materials were provided and the Review Panel gave a positive assessment. The Review Panel is now satisfied with the registration. The Chairs were consulted and agreed that the project should be considered by the full committee. The project was approved by a 13-0 vote on October 3 (updated vote = 16 and 1 abstention).

Biohazard Projects Requiring Review

1. Myung Kim, Kim Laboratories

Generation and production of monoclonal antibodies against food borne pathogens

2. Carol Maddox, Veterinary Pathobiology

Using integrons to monitor Salmonella transmission in swine; comparing genotypes

Conflict with committee member

Discussion

Biological Safety Committee
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Solicitation for suggestions to improve any aspect of project review process (concerns, use Q&A period etc.): Janice Bahr commented that PIs who are required to leave the room for conflict of interest can be questioned later in Committee regarding outstanding issues on their project registration. This process could bypass an email vote and thus save much time and effort. Milton McAllister, who requested to provide an oral presentation in order to supplement his written registration materials, agreed that this procedure should be used.

Adjournment

The meeting was adjourned at 11:12.

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AT URBANA - CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE
Minutes of the September 9, 2003 Meeting

Members Present: Janice Bahr, Carol Maddox, Steven Clough, Jennifer Eardley, Bettina Francis, Ned Hahn, David Lawrance, David Rivier, Gail Scherba, Jay Timmons, and Brenda Wilson

Ex Officio: Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent: Hans Bohnert, Irene Cooke, Roberto Docampo, Rex Gaskins, Milton McAllister, Kipling Mecum, Phillip Newmark, Randall Peper, and David Remmert,

Call to Order

Janice Bahr called the meeting to order at 10:04 AM.

Introduction

Janice Bahr had all members introduce themselves and identify their affiliation.

Approval of Minutes

Minutes from the August 12, 2003 meeting were presented and approved unanimously by voice vote.

Projects Registered or Updated with the Biological Safety Section after August 12 Meeting

Chad Rienstra, Chemistry

Multidimensional high field solid-state NMR methods for protein determination

Keith Kelley, Animal Sciences

Cytokines, behavior and mental health

Suzanne Broussard, Animal Sciences

Neuroimmune control of biobehavioral processes

Joan Jorgensen, Veterinary Biosciences

Sex determination and gonad development

Jo Ann Cameron, Cell and Structural Biology

*Electroporation of premetamorphic *Xenopus laevis* tadpole hindlimbs* (Update)

Humphrey Hung-Chang Yao, Veterinary Biosciences

Molecular and cellular mechanisms for mammalian sex determination (Update)

Humphrey Hung-Chang Yao, Veterinary Biosciences

Unveil a novel pathway in mammalian ovary development (Update)

Projects approved by e-mail vote after August 12 meeting

Benita Katzenellenbogen, Molecular and Integrative Physiology

Antiestrogens: mechanism of antagonist action

Approved by a 10 to 0 vote on August 20

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Bohnert • Steven Clough • Irene Cooke • Roberto Docampo • Jennifer Eardley • Bettina Francis • Rex Gaskins • Edwin Hahn • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Phillip Newmark • Randall Peper • David Remmert • David Rivier • Gail Scherba • Jay Timmons • Brenda Wilson

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This project required review for the use of adenovirus, a RG-2 agent, as a recombinant DNA vector. The primary reviewer was scheduled to be absent from the meeting. The written review was not also available at the start of the meeting. The Committee decided unanimously by a voice vote to delay consideration until receipt of the review. The review was received, and then it and the project registration were emailed to the membership for voting.

Stephen Kaufman, Cell and structural Biology
Integrin alleviation of muscular dystrophy

Approved by a 12 to 0 vote on August 22

This project was a continuation of an approved protocol. However, it required review because recombinant DNA in an adenovirus vector, a RG-2 agent, was now added to the previous protocol. The Committee by a unanimous voice vote decided to table review of the project, because insufficient information was provided. Dr. Kaufman received a request to provide this information. Note that the original project registration (without adenovirus) was temporarily extended so that the new Animal Use Protocol (from DAR) would be valid in the interim.

The review panel approved of the revised registration material; it and the project registration were emailed to the membership for voting.

Biohazard Projects Requiring Review

1. Gail Scherba, Veterinary Pathobiology

*Aujeszky's disease virus in swine as a virus-natural host interactive model for human
Alphaherpesvirus biology*

Note: conflict of interest with Committee membership

This project required review because wild type and recombinant pseudorabies virus, an animal biohazard, will be inoculated into live vertebrates. Certain information, including the strain of pigs used and Form 2 for recombinant DNA, was not included in this registration material, although it was part of previously approved registrations. By unanimous voice vote, the Committee tabled this project until the required information has been received. It would then be subject to an e-mail vote, provided that the review panel reports favorably on the revised registration.

2. Rex Hess, Veterinary Biosciences

Use of antiestrogens for contraception in the male

3. Stephen Boppart, Chemical and Biomolecular Engineering

Optical imaging of dynamic 3-D engineered tissue

This project required review because of the use of recombinant adenovirus, which is a human and animal biohazard. The Committee unanimously approved the project with a voice vote. There was a requirement that the Principal Investigator use 10% bleach instead of ethanol as a disinfectant.

4. Romana Nowak, Animal Sciences

Reactive oxygen species regulate smooth muscle proliferation

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Charges

Janice Bahr mentioned the committee charges, which were presented to all members in their invitation letter from the VCR.

Discussion

Adjournment

The regular meeting was adjourned at 10:56.

Orientation

Monica Miller and Michael Vodkin gave an orientation presentation for the benefit of the new committee members, but which was open to the whole membership. The presentation ended at 11:44.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE
Minutes of the April 13, 2004 Meeting

Members Present Leanne Alworth (DAR representative in lieu of Randall Peper), Janice Bahr, Steven Clough, Jennifer Eardley, Bettina Francis, Ned Hahn, David Lawrance, Carol Maddox, Milton McAllister, Kip Mecum, and Brenda Wilson

Ex Officio: Irene Cooke and Monica Miller

Guests: Linda Arseneau, Deoki Tripathy, and Michael Vodkin

Members Absent Hans Bohnert, Roberto Docampo, Phillip Newmark, David Remmert, Gail Scherba, and Jay Timmons

Call to Order Janice Bahr called the meeting to order at 10:05.

Introduction of Guest Carol Maddox introduced Dr. Deoki Tripathy (emeritus). He is considering serving on the Committee.

Approval of Minutes

The Minutes from March 9, 2004 were presented and then approved unanimously by voice vote.

Biohazard Projects Requiring Review

1. Eric Vimr, Veterinary Pathobiology
Ins and outs of plaque virulence

This project required review because of the use of *Yersinia pestis*, a biohazard (also a Select Agent,) as well as of recombinant DNA. The Committee required the following changes be made to the project registration: clarification that no animal will be used in this project registration, BL-2/3 containment for work with the biohazardous agent, including a mask or respirator when performing tasks outside the Biosafety Cabinet that can generate aerosols, the use of 10% bleach for surface decontamination, autoclaving at 121C and 15 psi for one hour, use of guarded pipette tips and o-sealed centrifuge tubes, and a better description of the LD₅₀, a more complete definition of the host range of the vectors.

The Committee also required you to consult with the appropriate agencies about the latest policies for vaccinating at risk laboratory personnel and the necessity to increase containment for a particular antibiotic-resistant *Y. pestis*.

The review panel will look over the re-submitted registration. If it approves, it will then be subject to a committee vote, either by email or at a future regularly scheduled meeting.

2. Myung Kim, Kim Laboratories

Generation and production of monoclonal antibodies against food borne pathogens

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Bohnert • Steven Clough • Irene Cooke • Roberto Docampo • Jennifer Eardley • Bettina Francis • Edwin Hahn • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Phillip Newmark • Randall Peper • David Remmert • Gail Scherba • Jay Timmons • Brenda Wilson

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3. Benito Marinas, Civil and Environmental Engineering
CEE 355 laboratory investigation

[REDACTED]

[REDACTED]

4. Robert Dantzer, Animal Sciences
Neuroimmunology of behavioral and mood disorders

[REDACTED]

[REDACTED]

5. Stephanie Ceman, Cell and Structural Biology
Phosphorylation of fragile X mental retardation protein

[REDACTED]

[REDACTED]

Discussion

[REDACTED]

Adjournment

The meeting was adjourned at 11:45.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE
Minutes of the August 10, 2004 Meeting

Members Present Leanne Alworth (DAR representative in lieu of Randall Peper), Janice Bahr, Roberto Docampo, David Lawrance, Carol Maddox, Milton McAllister, Kip Mecum, and Brenda Wilson
Note: a quorum was not reached.
Ex Officio: Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Hans Bohnert, Steven Clough, Irene Cooke, Jennifer Eardley, Bettina Francis, Ned Hahn, Phillip Newmark, and David Remmert, Gail Scherba, and Jay Timmons

Call to Order Janice Bahr called the meeting to order at 10:08.

Approval of Minutes July 13, 2004

Previously Considered Biohazard Projects Approved since July 13

1. Rex Gaskins, Animal Science
The role of mucolysis in Clostridium perfringens-induced necrotic enteritis

This project required review because of the use of wild type and recombinant *Clostridium perfringens*, which is a biohazard. At the last meeting, the Committee decided unanimously by voice vote to approve the project contingent on clarification of some questions by the PI and subsequent review of this response by the Review Panel.

All members of the Review Panel approved of the PI response by July 26, and the approval letter was sent with that date.

Biohazard Projects Requiring Review

1. Milton McAllister, Veterinary Pathobiology
Preliminary study of Waddlia chondrophila, an intracellular bacterium in the Chlamydiales of unknown pathogenicity

Conflict

Biological Safety Committee
August 10, 2004
Page 2

2. Val Beasley, Veterinary Biosciences

*Effects of predators and cover on the transmission of *Ribeiroia ondatrae*, the trematode that causes limb malformations in amphibians*

3. Jeffrey Woods, Kinesiology

The effects of exercise training on influenza antibody responses in young and old mice

Biological Safety Committee
August 10, 2004
Page 3

Discussion

Tracking/inventory for transgenic animals: According to the USDA, rigorous policies must be instituted and maintained for tracking transgenic animals. UIUC will be issuing new tags for rendering or incinerating transgenic animals as part of the tracking system. Tracking will also be implemented for transgenic agricultural animal species.

Animal form in BSS project registration versus the IACUC animal registration form: Milt McAllister raised the question of the purpose of an animal form in the BSS registration process. Monica Miller replied that the BSS registration documentation was to primarily address human biosafety, while the IACUC form primarily addressed animal welfare.

Adjournment

The meeting was adjourned at 11:15.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE

Minutes of the December 14, 2004 Meeting

Members Present Janice Bahr, Steven Clough, Bettina Francis, Rex Gaskins, Ned Hahn, Vickie Jarrell, Uriel Kitron, David Lawrance, Carol Maddox, Milton McAllister, Kip Mecum, Terry Niblack, Gary Olsen, Jay Timmons, and Brenda Wilson

Ex Officio: Irene Cooke and Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Leanne Alworth (DAR representative in lieu of Randall Peper), Lou Rhodes, and Gail Scherba

Call to Order Janice Bahr called the meeting to order at 10:01.

Approval of Minutes November 9 Minutes

Approval of Past Projects

Ronald Weigel, Veterinary Pathobiology

Polymerase chain reaction techniques for detection and genotyping of Salmonella: evaluation of the accuracy, generalizability and validity of diagnostic testing results

(Conflict-Carol Maddox)

Stephanie Ceman, Cell and Structural Biology

Function of nuclear fragile X mental retardation program

This project required review because of the use of a recombinant *Escherichia coli* that carries a gene from the human immunodeficiency virus. The Committee requested further information or clarification on the following four topics: certification status of the biological safety cabinet, personnel qualifications and training, host strains and vectors of the yeast two-hybrid system, and the use of 10% bleach for disinfection. The Review Panel will decide if the revised registration satisfactorily answers the questions. The Review Panel concurred with the revisions, and an approval letter was issued on December 14.

Project Approved by Expedited Review

Nohra Mateus-Pinilla, Illinois Natural History Survey

White tailed deer as biomonitors on the Allerton Park region

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

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December 14, 2004
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Biohazard Projects Requiring Review

1. Janeen Salak-Johnson, Animal Sciences

The genetic impact of stress responsiveness and disease susceptibility in pigs

2. Matthew Hudson, Crop Sciences

Role of PhyA in crop canopy competition dynamics

This project required review because of the controlled release of transgenic wheat. In addition to project approval, USDA-APHIS must approve this release as well as the import of the wheat.

The Committee tabled the project and asked the following four questions that pertain to the potential for inadvertent gene flow. The Review Panel will review the response and present their recommendations to the Committee.

- 1) How far does or can wheat pollen be transmitted by the wind and remain viable?
- 2) How likely is it for wheat to naturally outcross?
- 3) Provide a sketch of your plots in relation to Dr. Kolb's wheat plots and any other wheat plots on the University farm of which you are aware.
- 4) Why are you using wheat (wild type) as a buffer rather than a different crop?

Discussion

Proposed name change of BSC to IBC: Monica presented a brief rationale for changing the name of the Biological Safety Committee to the Institutional Biosafety Committee. An IBC is not necessarily restricted to recombinant DNA issues. An email address, will soon be available to conduct Committee business.

Form 1: Further discussions ensued on the continuing form revisions. A final document will be presented for review at the next meeting. Other Forms will be scheduled for review, as well.

Biological Safety Committee
December 14, 2004
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Adjournment

The meeting adjourned at 12:00.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE
Minutes of the February 10, 2004 Meeting

Members Present Leanne Alworth (DAR representative in lieu of Randall Peper), Janice Bahr, Steven Clough, Bettina Francis, David Lawrance, Milton McAllister, Kipling Mecum, Gail Scherba, and Brenda Wilson

Ex Officio: Irene Cooke and Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Hans Bohnert, Roberto Docampo, Jennifer Eardley, Ned Hahn, Carol Maddox, Phillip Newmark, David Remmert, and Jay Timmons

Call to Order Janice Bahr called the meeting to order at 10:03.

Approval of Minutes

Minutes from the January 13, 2004 meeting were presented and approved unanimously by voice vote.

Biohazard Projects Requiring Review

1. Gavin Meerdink, Veterinary Diagnostic Laboratory
Standards kept for analytical instrument calibration

2. Eric Oldfield, Chemistry
Prenyl diphosphate synthase inhibitors: novel anti-parasitic agents
Conflict with Committee Member

This project required review because of the use of the *in vitro* and *in vivo* growth of the four parasites, *Trypanosoma brucei brucei*, *Leishmania amazonensis*, *Leishmania major*, and *Trypanosoma cruzi* and the use of *T. brucei* and *Escherichia coli* as hosts for recombinant DNA.

The conflicted member, Dr. Docampo, did not attend this meeting. The Committee voted unanimously by voice vote to approve this project with BL-2 and Animal BL-2 containment. Final approval is contingent on the animal use approval by the IACUC.

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Bohnert • Steven Clough • Irene Cooke • Roberto Docampo • Jennifer Eardley • Bettina Francis • Edwin Hahn • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Phillip Newmark • Randall Peper • David Remmert • Gail Scherba • Jay Timmons • Brenda Wilson

Biological Safety Committee
February 1, 2004
Page 2

3. Raven Huang, Biochemistry

Molecular recognition and mechanisms of tRNA modifications

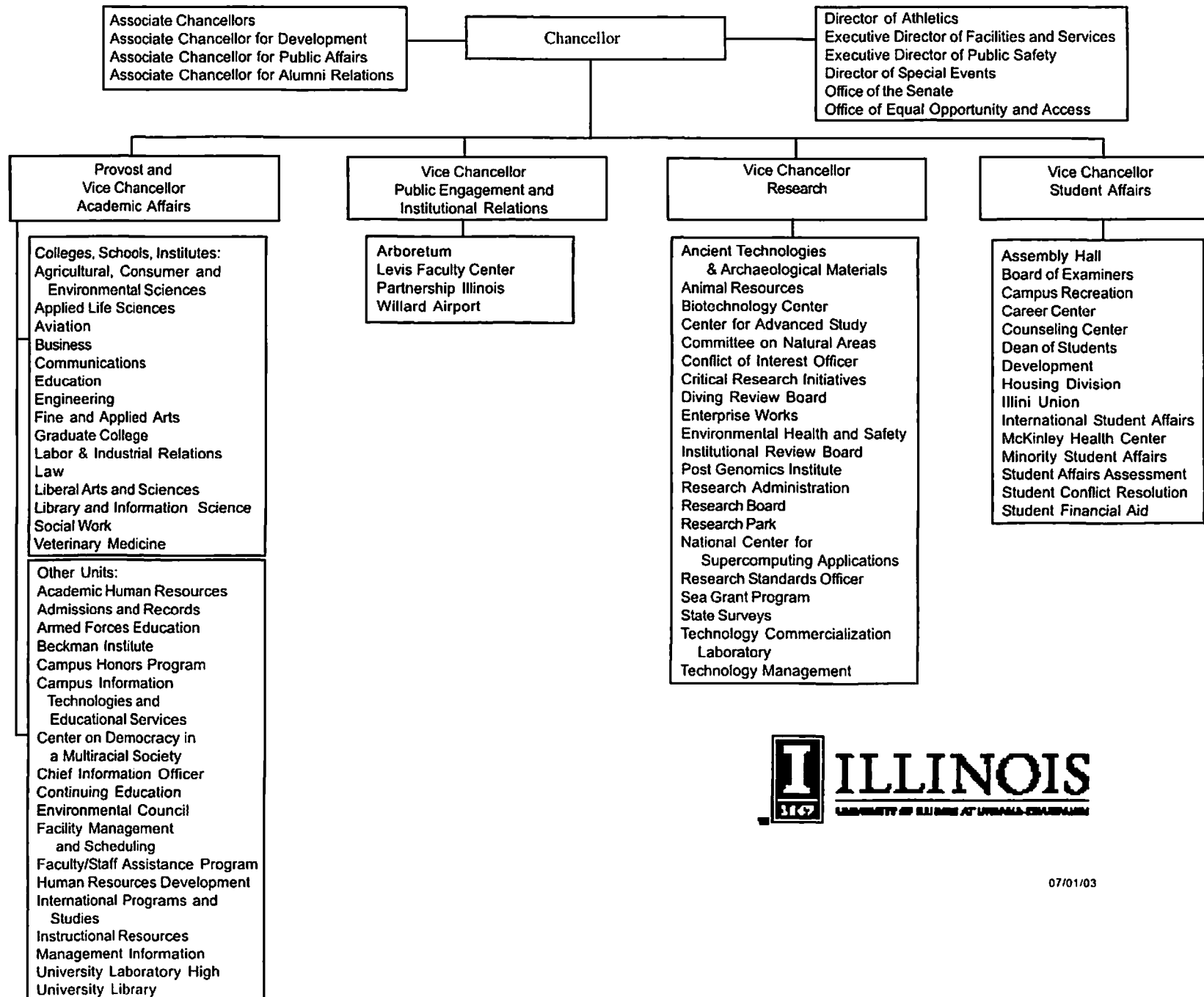
This project required review because of the use of recombinant DNA cloned in an *Escherichia coli* host. This registration is a revision submitted by Dr. Huang in response to a request issued in a previous committee review. The clone that involved the reverse transcriptase from HIV is no longer part of this registration, and Dr. Huang has written that this clone will not be used in any projects until first approved in by the Committee as part of a project registration.

The Committee by voice vote approved the project with BL-1 containment. Mr. Kip Mecum cast a negative vote, based on Dr. Huang's understanding of the registration process and his level of cooperation with BSS during this process. Upon further discussion, BSS will access Dr. Huang's research grants through Grants and Contracts and consult with the Review Panel and the Chairs to determine whether all of Dr. Huang's activities are properly registered.

Discussion

Transgenic pig rendering: In order to avoid further incidents of transgenic pig rendering, NIH would like clear policy statements appropriate educational opportunities. The BSC approval letters for any type of recombinant DNA research have been revised and emphasize a timely response to research-related incidents and the proper disposal of biological materials. The BSS Fact Sheets on recombinant DNA, transgenic animals, and transgenic plants delineate incineration and rendering options. A request will be made to DAR to update its on-line training module to reflect these same updates.

University of Illinois at Urbana-Champaign



UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE
Minutes of the January 13, 2004 Meeting (Amended)

Members Present Leanne Alworth (DAR representative in lieu of Randall Peper), Janice Bahr, Melanie Loots (OVCR representative in lieu of Jennifer Eardley), David Lawrance, Carol Maddox, Milton McAllister, Kipling Mecum, Phillip Newmark, and Brenda Wilson

Ex Officio: Irene Cooke and Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Hans Bohnert, Steven Clough, Roberto Docampo, Bettina Francis, Ned Hahn, Gail Scherba, and

Call to Order Janice Bahr called the meeting to order at 10:04.

Approval of Minutes

Minutes from the December 11, 2003 meeting were presented and approved unanimously by voice vote.

Biohazard Projects Requiring Review

1. Carol Maddox, Veterinary Pathobiology
Epidemiology and ecology of antibiotic resistance determinants on dairy farms
Conflict with committee member

This project required review because pathogenic bacteria (*Salmonella* or enterohemorrhagic *Escherichia coli*) could be enriched and/or selected from culturing biological samples. Also antibiotic genes were being cloned from the above bacteria into laboratory strains of *E. coli*.

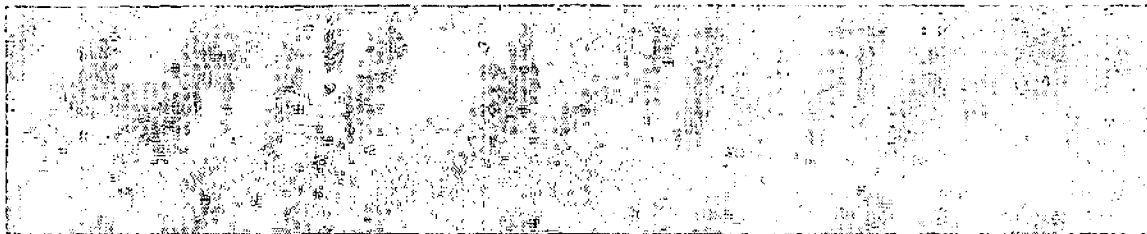
Dr. Maddox left the room during committee discussion and voting on the project. The Committee decided unanimously by voice vote that BL-1 containment was appropriate for culturing bacteria from the samples. The recombinant DNA portion also qualified for BL-1 containment. Culturing known pathogenic species or strains would require BL-2 containment. Final approval was contingent on the animal use approval by the IACUC.

Discussion

Status of Dr. Raven Huang's project registration: Michael Vodkin briefly reviewed the history of Dr. Huang's project registration. Dr. Huang was tardy regarding the deadline he was given to respond to the review panel's request to provide further information and clarifications. After some discussion the Committee decided by unanimous voice vote to email his department head and copy Dr. Huang. BSS will draft the letter and the Chairs will send it. BSS will also confirm the identity of the head, because some members suggested an impending change.

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Bohnert • Steven Clough • Irene Cooke • Roberto Docampo • Jennifer Eardley • Bettina Francis • Edwin Hahn • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Phillip Newmark • Randall Peper • Gail Scherba • Brenda Wilson

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Adjournment

The meeting was adjourned at 11:02.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE
Minutes of the July 13, 2004 Meeting

Members Present Leanne Alworth (DAR representative in lieu of Randall Peper), Janice Bahr, Roberto Docampo, Jennifer Eardley, Bettina Francis, Ned Hahn, David Lawrance, Carol Maddox, Milton McAllister, Kip Mecum, and Gail Scherba, Jay Timmons, and Brenda Wilson

Ex Officio: Monica Miller and Irene Cooke

Guests: Michael Vodkin

Members Absent Hans Bohnert, Steven Clough, Phillip Newmark, and David Remmert,

Call to Order Janice Bahr called the meeting to order at 10:05.

Approval of Minutes June 8, 2004 and May 11, 2004

Biohazard Projects Requiring Review

1. Milton McAllister, Veterinary Pathobiology
In vitro culture of Plasmodium falciparum

(Conflict-Milton McAllister)

2. Val Beasley, Veterinary Biosciences
Health monitoring program for lesser flamingos (Phoeniconaias minor) of Northern Cape Province of South Africa

(Conflict-Carol Maddox)

3. Enrico Gratton, Physics
Development and testing of advanced fluorescence spectroscopy techniques for the study of macromolecular interactions in live cells

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Bohnert • Steven Clough • Irene Cooke • Roberto Docampo • Jennifer Eardley • Bettina Francis • Edwin Hahn • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Phillip Newmark • Randall Peper • David Remmert • Gail Scherba • Jay Timmons • Brenda Wilson

Biological Safety Committee
July 13, 2004
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4. Rex Gaskins, Animal Science

The role of mucolysis in Clostridium perfringens-induced necrotic enteritis

This project required review because of the use of wild type and recombinant *Clostridium perfringens*, which is a biohazard.

The Committee decided unanimously by voice to approve the project contingent on some clarifications of the following questions by the PI and subsequent review of the response by the Review Panel.

1. Include relevant experience in the qualifications of the PI and the Co-PI.
2. Indicate the eye protection that will be used during the generation of aerosols.
3. Will antibiotic resistance markers be used during the genesis of recombinant *C. perfringens*? If so, which ones?

Previously Considered Biohazard Projects Requiring Review

5. Huimin Zhao, Chemical and Biomolecular Engineering

Biomolecular engineering via directed evolution

This project required review because of the use of a retrovirus as a recombinant DNA vector. Additional risk elements included the cloning of a gene that could confer a conditional growth advantage to the host cells and the incorporation of the vesicular stomatitis virus envelope protein to increase the human tropism of the recombinant retrovirus. The BSC by-laws, in such cases, require the PI to verify the replication-incompetency of the final recombinant construct(s).

The Committee decided unanimously by voice vote to table the project, until the PI clarified three issues in the project registration indicated below and also underwent a lab audit. The PI's response and the results from the lab audit would first be screened by the Review Panel. If satisfactory, the full committee would then reconsider the registration.

- 1) The specific training/experience in aseptic techniques and biosafety was omitted for one of the students.
- 2) No mention was made of the autoclave conditions, such as time, pressure, temperature, and any validation of efficacy.
- 3) The use of 70% ethanol was indicated for routine decontamination of work surfaces as well as the possible use of 70% ethanol for overt environmental contamination. Unless special circumstances warrant otherwise, 10% bleach should be substituted as the disinfectant.

Discussion

Adjournment

The meeting was adjourned at 11:25.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE
Minutes of the June 8, 2004 Meeting

Members Present Leanne Alworth (DAR representative in lieu of Randall Peper), Ned Hahn, David Lawrance, Carol Maddox, Milton McAllister, and Gail Scherba

Ex Officio: Monica Miller and Irene Cooke

Guests: Linda Arseneau and Michael Vodkin

Members Absent Janice Bahr, Hans Bohnert, Steven Clough, Roberto Docampo, Jennifer Eardley, Bettina Francis, Kip Mecum, Phillip Newmark, David Remmert, Jay Timmons, and Brenda Wilson

Call to Order Carol Maddox called the meeting to order at 10:06; a quorum was not reached.

1. Lois Hoyer, Animal Sciences
The role of Candida albicans agglutinin-like sequence (Als) cell-surface glycoproteins in disseminated candidiasis

This project required review because of the *in vitro* and *in vivo* (in mice) growth of the opportunistic pathogen, *Candida albicans*. The organism is also being used as a host for recombinant DNA.

The Committee decided unanimously by voice vote to approve the project with BL-2 and ABL-2 containment. Dr. Hoyer will be required to advise all her personnel that immunocompromised individuals can face an increased risk when working with the organism. Because a quorum was not reached, this project will be submitted for an electronic vote to the membership and will need a simple majority to pass.

2. Huimin Zhao, Chemical and Biomolecular Engineering
Biomolecular engineering via directed evolution

This project required review because of the use of a retrovirus as a recombinant DNA vector. Additional risk elements included the cloning of a gene that could confer a growth advantage to the host cells and the incorporation of the vesicular stomatitis virus envelope protein to increase the human tropism of the recombinant DNA.

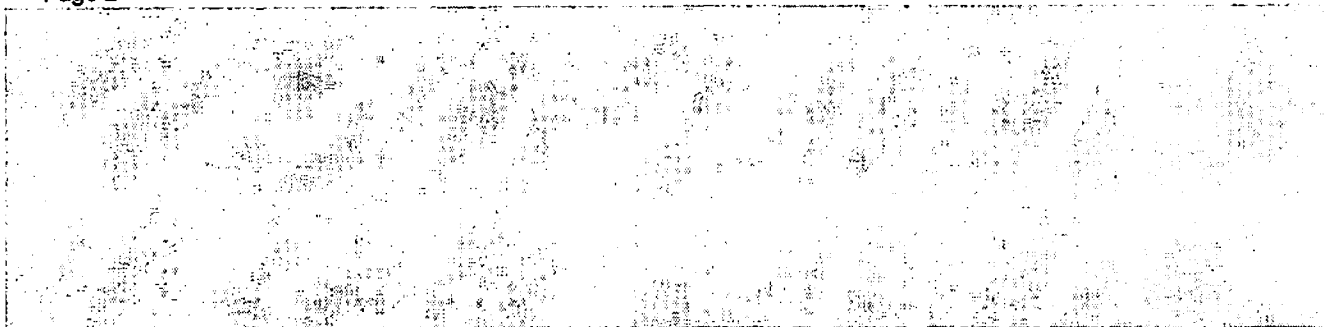
By voice vote the Committee voted unanimously to table the project registration until the principal investigator clarified several points and adequately addressed the risks entailed in the project. Although *E. coli* was used as a recombinant DNA host, no strains were identified as such in the corresponding table. If the retrovirus was derived from mouse mammary tumor virus, the PI will be advised to use another retrovirus because of its association with human breast cancer. The training and experience of the personnel were inadequately described; also Dr. Zhao failed to include his credentials in the personnel table. Because of the risk elements, Dr. Zhao will be asked to provide an assay to verify that the recombinant retrovirus is replication-incompetent, as was advertised.

Previously Considered Biohazard Projects Requiring Review

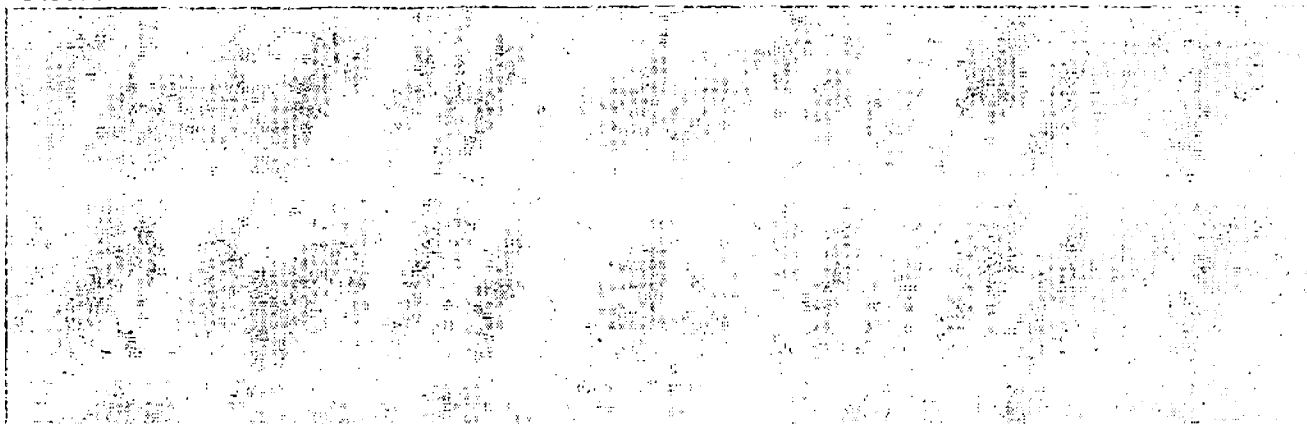
3. Martin Williams, USDA
Biological control of Amaranthus spp.

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Bohnert • Steven Clough • Irene Cooke • Roberto Docampo • Jennifer Eardley • Bettina Francis • Edwin Hahn • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Phillip Newmark • Randall Peper • David Remmert • Gail Scherba • Jay Timmons • Brenda Wilson

Biological Safety Committee
June 8, 2004
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Discussion



Adjournment

The meeting was adjourned at 11:20.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE
Minutes of the March 9, 2004 Meeting

Members Present Leanne Alworth (DAR representative in lieu of Randall Peper), Janice Bahr, Steven Clough, Bettina Francis, Ned Hahn, David Lawrance, Carol Maddox, Milton McAllister, Gail Scherba, Jay Timmons, and Brenda Wilson

Ex Officio: Irene Cooke and Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Hans Bohnert, Roberto Docampo, Jennifer Eardley, Kipling Mecum, Phillip Newmark, and David Remmert

Call to Order Janice Bahr called the meeting to order at 10:05.

Approval of Minutes

The amended Minutes from December 9, 2003 and January 13, 2004 meetings were presented and approved unanimously by voice vote. The Minutes from the February 10, 2004 as well as a proposed one-sentence substitution from Kipling Mecum, were presented and then approved unanimously by voice vote.

Biohazard Projects Requiring Review

1. Romana Nowak, Animal Sciences

The effect of PRRS virus on gene expression in cycling gilts

[REDACTED]

2. Tony Goldberg, Veterinary Pathobiology

Immunity, viral genetic diversification, and vaccine failure in PRRS virus

[REDACTED]

This project required review because of the use of an animal pathogen and recombinant DNA in *Escherichia coli*. The Committee voted unanimously by voice vote to approve this project conditionally with BL-2 containment for the biohazard portion and BL-1 for the recombinant DNA portion of the protocol. Final approval would be given when Dr. Goldberg submits a revised Form 1 that omitted some tabular information.

3. Carol Maddox, Veterinary Pathobiology

*Sensitive detection of *Leptospira interrogans* servovars for clinical and environmental surveillance*

[REDACTED]

Conflict with Committee Member

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Bohnert • Steven Clough • Irene Cooke • Roberto Docampo • Jennifer Eardley • Bettina Francis • Edwin Hahn • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Phillip Newmark • Randall Peper • David Remmert • Gail Scherba • Jay Timmons • Brenda Wilson

Biological Safety Committee
March 9, 2004
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4. Robert Gennis, Biochemistry
Growth and freezing of a 2-ml culture of Yersinia pestis

This project required review because of the use of a human and animal biohazard. The Committee voted unanimously by voice vote to approve this project with BL-2 containment.

Discussion

BSC response for non-compliance of faculty with registration policies: Dr. Raven Huang's case was summarized. He was apparently working with material that should have been registered. His research grant mentioned the use of this material but did not indicate it was harvested on site from a recombinant DNA clone. Dr. Huang was not initially cooperative when requested to register his material.

Three letters will be issued by the Committee. One will be addressed to Dr. Huang with copies to his department head and college dean and will remind him of his responsibilities to register his current material and any other materials that qualify prior to initiation of his research. A second letter will be addressed to Dr. Gerlt with a copy to the Dean. This letter will highlight two recent incidents Biochemistry Faculty not being aware of their registration requirements and indicate that the Department should make a vigorous effort to remind researchers of their responsibilities. A third letter will be a suggested draft for Dr. Zukoski. It will be similar to the second letter but it is meant for distribution to the "biodeans".

Dr. McAllister composed a flow chart to summarize his proposal on how to generally respond to researchers who are non-compliant with project registration. The response is calibrated with regard to the risk presented.

Revision of the update process: BSS is in the process of defining an update process and designing a form to support this process. Previously an informal email sufficed. Now a clearer definition of what new types of biological materials qualify for an update and what types require a new registration. Eventually, this form will be available on the Web.

Adjournment

The meeting was adjourned at 11:30.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE
Minutes of the May 11, 2004 Meeting

Members Present Leanne Alworth (DAR representative in lieu of Randall Peper), Janice Bahr, Steven Clough, Jennifer Eardley, Bettina Francis, Ned Hahn, Kip Mecum, David Lawrance, Carol Maddox, Milton McAllister, and Brenda Wilson

Ex Officio: Irene Cooke

Guests: Linda Arseneau and Michael Vodkin

Members Absent Hans Bohnert, Roberto Docampo, Phillip Newmark, David Remmert, Gail Scherba, and Jay Timmons

Call to Order Janice Bahr called the meeting to order at 10:10.

Approval of Minutes

The Minutes from April 13, 2004 were presented and then approved unanimously by voice vote.

Biohazard Projects Requiring Review

1. Richard Tapping, Microbiology
Initiation of Toll-like receptor signaling

This project required review due to the use of a lentivirus vector and human cell lines. Live animals were also involved but were not exposed to any biohazards or recombinant DNA. The Committee voted unanimously by voice vote to require Dr. Tapping to specify the training of all personnel and to include himself in the list. If the review panel approves of the requested material, approval would be granted. It could proceed with BL-2 and ABL-1 containment.

2. Carol Maddox, Veterinary Pathobiology
*Evaluation of the potential for recombination via genetic exchange between modified live *Streptococcus equi* ssp. *equi* vaccine and wild type field strains (conflict)*

This project required review due to the use of the animal biohazard, *Streptococcus equi*. Carol Maddox was excused during consideration of her project. The practices that were described in this project were judged consistent with BL-2 and ABL-2 containment. The Committee voted unanimously by voice vote to approve this project, with one stipulation. The disposal of contaminated bedding should be more fully described and then judged by the Biological Safety Section as to whether it is appropriate for campus.

3. Martin Williams, USDA
*Biological control of *Amaranthus* spp.*

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Bohnert • Steven Clough • Irene Cooke • Roberto Docampo • Jennifer Eardley • Bettina Francis • Edwin Hahn • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Phillip Newmark • Randall Peper • David Remmert • Gail Scherba • Jay Timmons • Brenda Wilson

Biological Safety Committee
May 11, 2004
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Previously Considered Biohazard Projects Requiring Review

4. Benito Marinas, Civil and Environmental Engineering
CEE 355 laboratory investigation

5. Keith Kelley (previously Robert Dantzer), Animal Sciences
Neuroimmunology of behavioral and mood disorders

Discussion

Irene Cooke informed the Committee of the "Fink report", which deals with the use of dual-use research. The publication of such research might eventually require vetting to ensure that it could not be misapplied for bioterrorism. The proposal calls for prior review at the local level, perhaps by an IBC or a dedicated committee. A national agency, similar to the Recombinant DNA Advisory Committee and designated as the NSABB, would be constituted to formulate guidelines.

Adjournment

The meeting was adjourned at 11:20.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE

Minutes of the November 9, 2004 Meeting

Members Present Leanne Alworth (DAR representative in lieu of Randall Peper), Janice Bahr, Steven Clough, Rex Gaskins, Ned Hahn, Vickie Jarrell, David Lawrance, Carol Maddox, and Gary Olsen

Ex Officio: Irene Cooke and Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Bettina Francis, Uriel Kitron, Milton McAllister, Kip Mecum, Terry Niblack, Lou Rhodes, Gail Scherba, Jay Timmons, and Brenda Wilson

Call to Order Janice Bahr called the meeting to order at 10:06.

Approval of Minutes October 12 Minutes

Biohazard Projects Requiring Review

1. Ronald Weigel, Veterinary Pathobiology
Polymerase chain reaction techniques for detection and genotyping of Salmonella: evaluation of the accuracy, generalizability and validity of diagnostic testing results

(Conflict-Carol Maddox)

2. Carol Maddox, Veterinary Pathobiology
Bacteriocin inhibits Streptococcus equi ssp. equi

(Conflict)

This project required review because of the use of *Streptococcus equi* and other horse pathogens. Carol was excused during the discussion and voting.

The Committee requested additional information on three items: recombinant DNA aspects of the project, safety aspects on culturing infected zebrafish, and precautions to be taken for growth of not well characterized bacterial samples isolated from horses. The Review Panel will assess a revised registration. If satisfactory, an email vote will then be solicited from the full Committee.

3. Benito Marinas, Civil and Environmental Engineering
Inactivation of Mycobacterium avium with chemical disinfectant

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

Biological Safety Committee
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Recombinant DNA Projects Requiring Review

4. Stephanie Ceman, Cell and Structural Biology
Function of nuclear fragile X mental retardation program

This project required review because of the use of a recombinant *Escherichia coli* that carries a gene from the human immunodeficiency virus. The Committee requested further information or clarification on the following four topics: certification status of the biological safety cabinet, personnel qualifications and training, host strains and vectors of the yeast two-hybrid system, and the use of 10% bleach for disinfection. The Review Panel will decide if the revised registration satisfactorily answers the questions.

Revised Projects Approved by the Review Panels

1. Yang Xiang, Molecular and Integrative Physiology
Cardiovascular physiology of adrenergic receptor

This project required review because of the use of transgenic rodents, human materials, and recombinant adenovirus. Several changes in the protocol were required:

It is not appropriate to use a chemical safety cabinet for biological materials.

The procedures for routine cleaning should be rewritten.

The emergency procedures should take into account that students and staff go to different hospitals for consultation.

The revised protocol was sent to the Review Panel, which approved it on October 23.

2. Stephen Boppart, Electrical and Computer Engineering
Coherent and incoherent optical molecular imaging of near-infrared probes

This project required review because of xenografting of human cells onto nude mice. The Committee requested that more detailed experiences of personnel with Risk Group 2 agents be listed. Also, the protocol for culturing the human cells should be provided.

The revised registration will then undergo a panel review. The revised registration form was sent to the Review Panel, which approved it on October 20.

7. Huimin Zhao, Chemical and Biomolecular Engineering
Biomolecular engineering via directed evolution

This project required review because of the use of recombinant retrovirus. The Committee required that additional details be provided on personnel training. Also, a written protocol to assay for replication competency of the recombinant retrovirus has to be incorporated in the registration. Six months after approval, the Biological Safety Section will schedule a lab audit.

The revised registration will then undergo a panel review. The revised registration form was sent to the Review Panel, which approved it on November 1.

Biological Safety Committee
November 9, 2004
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Discussion

Form 1: All attendees were free to participate on a discussion to revise Form 1 of the registration packet. Carol Maddox presented her own revisions, and additional changes were incorporated as the discussions continued. The Biological Safety Section will consolidate the recommended changes and perhaps make some additional ones. A revised document will be presented for review at the next meeting.

Adjournment

The meeting adjourned at 12:00.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE

Minutes of the October 12, 2004 Meeting

Members Present Leanne Alworth (DAR representative in lieu of Randall Peper), Janice Bahr, Rex Gaskins, Ned Hahn, Vickie Jarrell, Uriel Kitron, David Lawrance, Carol Maddox, Milton McAllister, Kip Mecum, Gary Olsen, and Brenda Wilson

Ex Officio: Irene Cooke and Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Steven Clough, Bettina Francis, Terry Niblack, Lou Rhodes, Gail Scherba, and Jay Timmons

Call to Order Janice Bahr called the meeting to order at 10:03.

Approval of Minutes September 14 Minutes

Biohazard Projects Requiring Review

1. Benito Marinas, Civil and Environmental Engineering
Inactivation kinetics of adenovirus type 2 with disinfection

2. Lois Hoyer, Veterinary Pathobiology
Characterization of MSCRAMM antibodies against Candida albicans

This project required review because of the use of human materials and *Candida albicans*, a human and animal pathogen. It can cause a more serious, disseminated disease in immunocompromised individuals. The Committee unanimously by voice vote approved the project, with a stipulation that an aliquot of the Veronate, a pooled human immunoglobulin preparation, be held.

3. David Kranz, Biochemistry
Possible role of TCR conformational flexibility and stability on T cell signaling

This project required review because of the use of human materials and recombinant retrovirus. The Committee unanimously by voice vote approved the project.

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

Biological Safety Committee
October 12, 2004
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4. Yang Xiang, Molecular and Integrative Physiology
Cardiovascular physiology of adrenergic receptor

This project required review because of the use of transgenic rodents, human materials, and recombinant adenovirus. Several changes in the protocol were required:

It is not appropriate to use a chemical safety cabinet for biological materials.

The procedures for routine cleaning should be rewritten.

The emergency procedures should take into account that students and staff go to different hospitals for consultation.

The revised registration will then undergo a panel review.

5. Stephen Boppart, Electrical and Computer Engineering
Coherent and incoherent optical molecular imaging of near-infrared probes

Previously Considered Biohazard Projects Requiring Review

6. Huimin Zhao, Chemical and Biomolecular Engineering
Biomolecular engineering via directed evolution

This project required review because of the use of recombinant retrovirus. The Committee required that additional details be provided on personnel training. Also, a written protocol to assay for replication competency of the recombinant retrovirus has to be incorporated in the registration. Six months after approval, the Biological Safety Section will schedule a lab audit.

The revised registration will then undergo a panel review.

Discussion

There was some discussion about the Education/Training of Personnel question on Form 1, with a suggestion that it be re-worded better to ensure that specific training (with comparable projects or pathogens) is entered. A more general discussion ensued about other improvements that can be made to all the registration forms. The registration forms will be discussed at the next meeting, and the Faculty Members will be reminded about a week in advance to prepare for this discussion item.

Adjournment

The meeting adjourned at 11:05.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE

Minutes of the September 14, 2004 Meeting

Members Present Leanne Alworth (DAR representative in lieu of Randall Peper), Janice Bahr, Steven Clough, Uriel Kitron, David Lawrance, Carol Maddox, Milton McAllister, Kip Mecum, Gary Olsen, Gail Scherba, and Brenda Wilson

Ex Officio: Irene Cooke and Monica Miller

Guests: Linda Arseneau, Lyndon Goodly (Director, DAR), and Michael Vodkin

Members Absent Bettina Francis, Rex Gaskins, Ned Hahn, Vickie Jarrell, Terry Niblack, Lou Rhodes, and Jay Timmons

Call to Order Janice Bahr called the meeting to order at 10:07.

Approval of Minutes July 13, 2004 and August 10, Minutes

Previously Considered Biohazard Projects Approved since August 10

1. Milton McAllister, Veterinary Pathobiology
Preliminary study of Waddlia chondrophila, an intracellular bacterium in the Chlamydiales of unknown pathogenicity

Conflict

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

Biological Safety Committee
September 14, 2004
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2. Woods, Kinesiology

The effects of exercise training on influenza antibody responses in young and old mice

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3. Enrico Gratton, Physics
Development and testing of advanced fluorescence spectroscopy techniques for the study of macromolecular interactions in live cells

Biohazard Projects Requiring Review

1. Keith Kelley, Animal Sciences
Whole animal model to test candidate anticancer drugs

2. Schuyler Korban, Natural Resources and Environmental Sciences
Transgenic plants for production and delivery of an oral vaccine

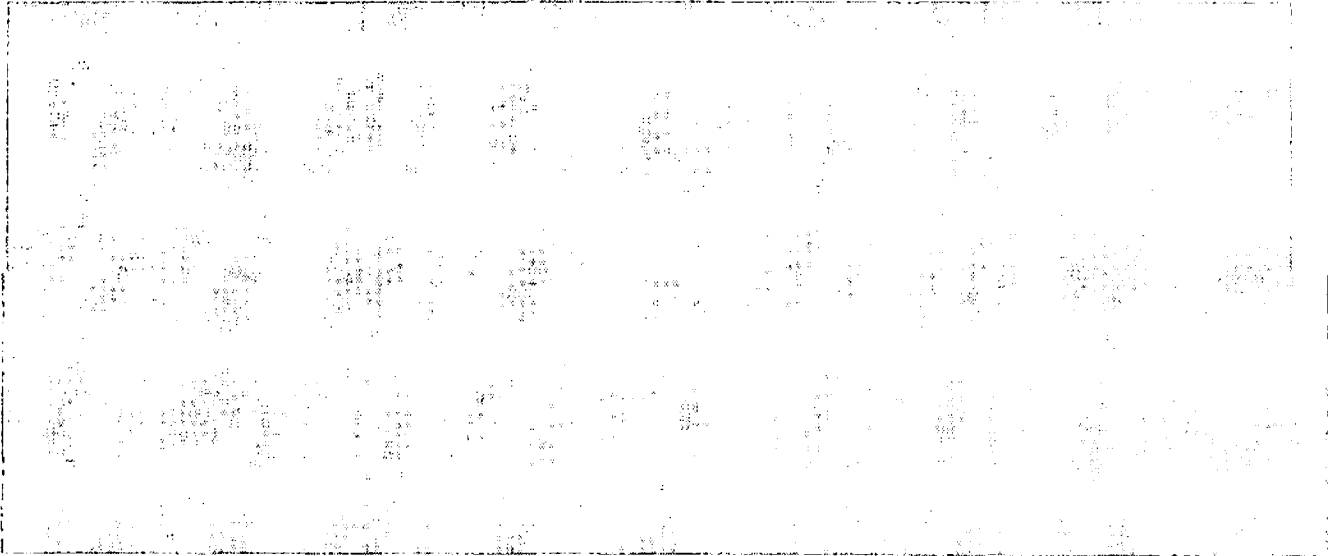
This project required review because of the construction of transgenic plants carrying specific segments of a non-zoonotic RG-2 virus (porcine reproductive and respiratory syndrome virus) and exposure of animals to this virus. The Committee unanimously approved the project at Plant BL-1 and ABL-2 by voice vote, contingent on revisions to the registration that are satisfactory to the Biological Safety Section. These revisions included more details on the training of personnel and updating the Biological Safety Section as new personnel are hired.

3. James Slauch, Microbiology
Analysis of evolutionarily related Cu/Zn superoxide dismutases

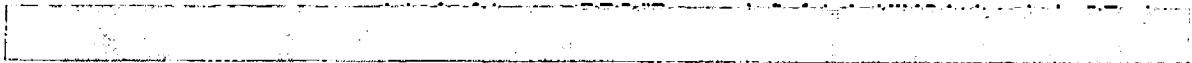
This project required review because of the cloning of a gene from several RG-2 and RG-3 agents into a RG-2, *Salmonella typhimurium*, host and the inoculation of the recombinants into animals. The Committee unanimously approved the project by voice vote at BL-2 and ABL-2.

Biological Safety Committee
September 14, 2004
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4. Val Beasley, Veterinary Biosciences
Effects of predators and cover on the transmission of Ribeiroia ondatrae, the trematode that causes limb malformations in amphibians



Discussion



Adjournment

The regular meeting adjourned at 11:05. A PowerPoint presentation was then given by Monica Miller and Michael Vodkin to orient the new committee members.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

INSTITUTIONAL BIOSAFETY COMMITTEE

Minutes of the April 12, 2005 Meeting

Members Present Leanne Alworth, Steven Clough, Bettina Francis, Ned Hahn, Vickie Jarrell, David Lawrance, Carol Maddox, Kipling Mecum, and Terry Niblack

Ex Officio: Irene Cooke; Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Janice Bahr, Rex Gaskins, Uriel Kitron, Milton McAllister, Gary Olsen, Lou Rhodes, Gail Scherba, Jay Timmons, and Brenda Wilson

Call to Order Carol Maddox called the meeting to order at 10:06 AM.

Approval of Minutes March 8, 2005 minutes

Biohazards Projects Requiring Review

1. Bryan White, Animal Sciences

Characterization of genetic factors required for Campylobacter colonization: identifying potential target genes for pre-harvest intervention of foodborne pathogens

Recombinant DNA Projects Requiring Review

2. George Ordal, Biochemistry

Chemotactic sensory transduction in Bacillus subtilis

This project required review because of the cloning of a gene from Risk Group 3 organism into *Escherichia coli* and the possibility of residual spores in the genomic DNA of the Risk Group 3 organism. The project was unanimously approved by a voice vote with BL-1 containment, but pending a satisfactory response to the Biological Safety Section to the following points.

- 1) Identification of the strain of *B. anthracis*, especially with regard to absence of both virulence plasmids;
- 2) Means by which spores will be determined to be absent from the genomic DNA;
- 3) Documentation of relevant qualifications/experiences/training of personnel.

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Institutional Biosafety Committee
April 12, 2005
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Discussion

Expedited review process (continued): Consideration was given for a conditional review. Either some or all portions of the protocol could be approved; the formal registration would then be up for consideration at the next regularly scheduled meeting.

The expedited review process would particularly focus on the documentation of expertise by the PI and his/her collaborators. In cases when IBC expertise was not available to review the registration material on short notice, the PI and Co-PIs would be requested to provide the names of competent reviewers on campus.

Requirement for DRS general lab safety training: Anyone included in the project personnel is required to take the on-line training module. The Form 1 portion that deals with personnel should accommodate the recording of this information.

Project registration form revisions: The revised Form 2 was approved. Forms 3 and 6 were tentatively modified and will be presented for further review at the next meeting.

Adjournment

The meeting adjourned at 11:58 AM.

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

INSTITUTIONAL BIOSAFETY COMMITTEE

Minutes of the August 9, 2005 Meeting

- Members Present** Janice Bahr, Lyndon Goodly, Vickie Jarrell, David Lawrance, Carol Maddox, Kipling Mecum, and Brenda Wilson
- Ex Officio: Monica Miller
- Guests: Linda Arseneau and Michael Vodkin
- Members Absent** Steven Clough, Irene Cooke, Bettina Francis, Rex Gaskins, Ned Hahn, Uriel Kitron, Milton McAllister, Terry Niblack, Gary Olsen, Lou Rhodes, Gail Scherba, and Jay Timmons
- Call to Order** Janice Bahr called the meeting to order at 10:08 AM. A quorum was not present. All items will require additional email votes from non-attending members.
- Approval of Minutes** The July 12 as well as the revised June 14 Minutes were unanimously approved by voice vote.

Previously Considered Projects Requiring Review

1. Steven Blanke, Microbiology
Determine the molecular and cellular mechanism of Helicobacter pylori vacuolating cytotoxin (VacA) mediated cellular vacuolation

This project was tabled previously because insufficient information was provided. It required review because of the use of the human and animal pathogens, of cytolethal distending toxin, and of human cell lines. There were still several issues that were not sufficiently addressed in the revised registration. They included lack of a proper inventory system for toxins (especially for any that would be considered a Select Agent, if above the exempted amount), incomplete description of production, purification, and use of several toxins, failure to mention a disposal protocol for pathological waste, and misclassification of plasmid vectors as replication-competent. Further revisions would circulate to the Review Panel and then to the full committee.

There is still no inventory system included with the Shiga-like toxin. This toxin is a potential Select Agent by amount. The CDC format, where applicable, should be used as a template for tracking the amounts. Apparently, a walk-in cold room will be used for this project. Neither its location nor its purpose was previously indicated. The revised registration should include this data. By unanimous voice vote, the Committee will delegate to BSS the monitoring of the revised registration. If deemed satisfactory, BSS will send it out to the non-attendees for voting.

2. Kelly Tappenden, Food Science and Human Nutrition
Rapid regulation of rat intestinal glucose transport

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

Institutional Biosafety Committee
August 9, 2005
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3. Nohra Mateus-Pinilla, Illinois Natural History Survey
Habitat use of Ixodes scapularis and assessment of the presence or absence of Borrelia burgdorferi in Robert Allerton Park

4. Tony Goldberg, Veterinary Pathobiology
Egg immunology and nest microbial ecology

5. Glen Hartman, Crop Science
Illinois plan for management of soybean rust: sentinel plots, diagnostics, outreach, and research

Biohazard Projects Requiring Review

1. Stephen Farrand, Crop Sciences
Quorum-sensing signaling in Burkholderia spp.

This project was reviewed because of the use of wild type and recombinant, *Burkholderia thailandensis*, a Risk Group 2 human pathogen. (The recombinant organism would have reporter genes with native promoters.) The Committee contingently approved the registration with BL-2 containment unanimously by voice vote. However, there were a number of errors, and the biosafety cabinet should be approved. The Review Panel would have to confirm the adequacy of the revised registration prior to submission for email vote of the non-attending members.

2. Steven Blanke, Microbiology
Botulinum neurotoxin inhibitor screening

This project was reviewed because of the use of multiple biotoxins and cloning of biotoxins or fragments thereof. There were many "cutting and pasting" and other types of errors as well. The Committee decided unanimously by voice vote to table this registration. One of the Chairs would contact Dr. Blanke to ensure his proper oversight of the writing and proofreading.

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

Institutional Biosafety Committee
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3. Jan Novakofski, Animal Sciences
CWD transmission characteristics



4. Ibulaimu Kakoma, Veterinary Pathobiology
Characterization of canine E. coli isolates and their similarities to human clinical E. coli isolates: investigation of possible presence of E. coli 0157 among dogs



Discussion

The previous revisions to Form 6 were confirmed. Revisions were taken for IBC Forms 4 and 5.

Adjournment

The meeting adjourned at 11:50 AM.

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

INSTITUTIONAL BIOSAFETY COMMITTEE

Minutes of the December 13, 2005 Meeting

Members Present Janice Bahr, Steven Clough, Bettina Francis, Lyndon Goodly, Edwin Hahn, Vickie Jarrell, Carol Maddox, Kipling Mecum, Richard Tapping, Carl Wegel, and Brenda Wilson

Ex Officio: Irene Cooke and Monica Miller

Guests: Linda Arseneau, Tina McGill, and Michael Vodkin

Members Absent Hans Blaschek, Robert Brunner, Jeffrey Gardner, Uriel Kitron, David Lawrance, Milt McAllister, Terry Niblack, Gary Olsen, Gail Scherba, and Jay Timmons

Call to Order Janice Bahr called the meeting to order at 10:10 AM. A quorum was present.

Approval of Minutes The November 08 Minutes were unanimously approved by voice vote pending the the addition of Janice Bahr to the list for absent members from that meeting.

Biohazard Projects Requiring Review

1. Jie Chen, Cell and Developmental Biology
Investigation of rapamycin-sensitive signaling in cell growth and cellular differentiation

This project required review because of the use of human cell lines and various commercial vectors, including those of lentivirus origin. The committee would like to have Dr. Chen consider the possibility of virus transmission beyond the first round and possibly recommending a replication competency test after the first round, pending her response. This project was approved unanimously by voice vote.

2. Amy MacNeill, Veterinary Pathobiology
Poxvirus use in Cancer immunotherapy

This project required review because of the use of poxviruses and rDNA. The committee approved the project unanimously by voice vote pending the following changes to Form 1: the removal of the reference to "virus isolation from animals" in the materials and methods section as animals will not be used in this project, clarification that the PI is rescuing the already mutated viruses and that she may be inserting mentions cytokines, the addition of a statement regarding whether the rescued and recombinant viruses are expected to be more virulent than the corresponding parental or wild type strain, re-certification of the biosafety cabinet, and a laboratory audit.

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Blaschek • Robert Brunner • Steven Clough • Irene Cooke • Bettina Francis • Jeffrey Gardner • Lyndon Goodly • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Gail Scherba • Richard Tapping • Jay Timmons • Carl Wegel • Brenda Wilson

Institutional Biosafety Committee
December 13, 2005
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3. Dan Rock, Veterinary Pathobiology
Mapping PRRSV genetic determinants of macrophage host range and immune modulation

This project required review due to the use of a highly infectious strain of porcine reproductive and respiratory syndrome virus, which is an animal pathogen. Also, a full-length clone of an eukaryotic virus was used. This project was approved as BL-2 containment, unanimously by voice vote pending the following: Staff working with the PRRSV must stay away from swine facilities for two days after exposure to the virus, two biosafety cabinets must be re-certified, Biosafety Level 2 box must be checked on Form 1 page 2, Section III-D must be checked on Form 4.

4. Myung Kim, Kim Laboratories, Inc.
Generation of monoclonal antibodies to and subsequent antibody-based detection of Staphylococcus aureus whole cells and S. aureus enterotoxin D in food

Discussion

Tina presented the revised timetable for conducting reviews and submitting materials to BSS for the IBC meetings. The committee suggested that BSS send an e-mail reminder to the reviewers 48 hours prior to PI questions being due.

Form 4 changes were presented to the committee by Linda Arseneau. The committee recommended the addition of the following question, "Based on your procedures, what are your potential exposure risks?" directly under the route of administration question. The committee agreed that the form is approved after the new question has been added.

Adjournment

The meeting adjourned at 11:35 AM.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE

Minutes of the February 8, 2005 Meeting

Members Present Janice Bahr, Steven Clough, Bettina Francis, Vickie Jarrell, Carol Maddox, Kip Mecum, Terry Niblack, Randall Peper, and Gail Scherba

Ex Officio: Irene Cooke; Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Rex Gaskins, Ned Hahn, Uriel Kitron, David Lawrance, Milton McAllister, Gary Olsen, Lou Rhodes, Jay Timmons, and Brenda Wilson

Call to Order Janice Bahr called the meeting to order at 10:06.

Approval of Minutes December 14 Minutes and January 11 Minutes

Biohazard Projects Requiring Review

1. Laretta Rund, Animal Sciences
Development of a genetically tractable porcine model of cancer
~~Conflict, Rex Gaskins~~

This project required review because of the use of recombinant retrovirus, a human and animal hazard, and its inoculation into the somatic tissue of animals. Rex Gaskins was not present at this meeting. The Committee unanimously by voice vote approved the project registration at BL-2 and ABL-2 containment levels, with the following stipulations/questions.

1. All viruses and viral-transduced cell lines have to be monitored for replication-competent retrovirus before further use and discarded if an assay is positive. The PI must clearly distinguish in the protocol whether the starting materials are virus or virally altered cells.
2. The biosafety cabinet certification must be current (within one year).

The Biological Safety Section will internally review the revised project registration and determine whether the questions have been addressed satisfactorily.

2. Christopher Rao, Chemical and Biomolecular Engineering
Quantitative analysis of the Salmonella pathogenicity island 1 gene network
~~Conflict, Rex Gaskins~~

This project required review because of the use of wild type and recombinant *Salmonella typhimurium*, a human and animal pathogen. The Committee unanimously by voice vote approved the project registration at a BL-2 containment level, with the following stipulations/questions. The PI must either purchase or transfer a biosafety cabinet for his own laboratory space or clearly identify a room location with a biosafety cabinet, where the work with the biohazards can be done.

3. Laretta Rund, Animal Sciences
Development of a genetically tractable porcine model of cancer using a lentivirus infection method
~~Conflict, Rex Gaskins~~

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

Biological Safety Committee
February 8, 2005
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This project required review because of the use of recombinant lentivirus, a human and animal hazard, and its inoculation into the somatic tissue of animals. Rex Gaskins was not present at this meeting. The Committee unanimously by voice vote approved the project registration at BL-2 and ABL-2 containment levels, with the following stipulations/questions.

1. All viruses and viral-transduced cell lines have to be monitored for replication-competent lentivirus before further use and discarded if an assay is positive.
2. The biosafety cabinet certification must be current (within one year).
3. Any animal that receives an inoculation with infectious virus must first be sedated. In order to prevent auto-inoculation with infectious virus, the needle must first be inserted for the subcutaneous inoculation and then the loaded syringe attached.
4. Pigs that receive either cells or virus have to be incinerated.

The Biological Safety Section will internally review the revised project registration and determine whether the questions have been addressed satisfactorily.

Discussion

Expedited Reviews: It was noted that the last expedited review was labor-intensive and did not proceed smoothly. There should be a future effort to define the justifications that allow for an expedited review. Also, a SOP should be written to better define the process.

Meeting of Chairs with the VCR: The Chairs discussed the extensive review process that must be followed to register projects and indicated two improvements within the Biological Safety Section to respond to an increased work load. One is the hiring of more staff, and the other is the design and implementation of a database.

IBC Project Registration Forms:

Approval of IBC Name Change (FYI)

Adjournment

The meeting adjourned at 11:47.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

BIOLOGICAL SAFETY COMMITTEE

Minutes of the January 11, 2005 Meeting

Members Present Leanne Alworth (DAR representative in place of Randall Peper), Janice Bahr, Steven Clough, Ned Hahn, Vickie Jarrell, David Lawrance, Carol Maddox, Milton McAllister, Kip Mecum, Gary Olsen, Gail Scherba, and Brenda Wilson

Ex Officio: Irene Cooke; Monica Miller (absent)

Guests: Linda Arseneau and Michael Vodkin

Members Absent Bettina Francis, Rex Gaskins, Uriel Kitron, Terry Niblack, Lou Rhodes, and Jay Timmons

Call to Order Janice Bahr called the meeting to order at 10:05.

Approval of Minutes The December 14 Minutes were not approved at this time because of a clerical error in the attendance record. They will be corrected and voted at the next meeting.

Previously Considered Projects Requiring Review

Benito Marinas, Civil and Environmental Engineering
Inactivation kinetics of adenovirus type 2 with disinfection

Benito Marinas, Civil and Environmental Engineering
Inactivation of Mycobacterium avium with chemical disinfectant

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

Biological Safety Committee
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were qualified.

Matthew Hudson, Crop Sciences
Role of PhyA in crop canopy competition dynamics

This project required review because of the controlled release of transgenic wheat. In addition to project approval, USDA-APHIS must approve this release as well as the import of the wheat. The Committee tabled the project and asked the following four questions that pertain to the potential for inadvertent gene flow. The Review Panel will review the response and present their recommendations to the Committee.

- 1) How far does or can wheat pollen be transmitted by the wind and remain viable?
- 2) How likely is it for wheat to naturally outcross?
- 3) Provide a sketch of your plots in relation to Dr. Kolb's wheat plots and any other wheat plots on the University farm of which you are aware.
- 4) Why are you using wheat (wild type) as a buffer rather than a different crop?

Dr. Hudson's responses were satisfactory to the Review Panel. The Committee voted unanimously by voice vote to approve this project registration.

Biohazard Projects Requiring Review

1. Kelly Tappenden, Food Science and Human Nutrition
Impact of prebiotics on intestinal histomorphology and immune response to a bacterial challenge in young puppies

2. Nohra Mateus-Pinilla, Illinois Natural History Survey
*Evidence of West Nile virus infection in foxes (*Vulpes vulpes* and *Urocyon cinereoargenteus*) and coyotes (*Canis latrans*) in Illinois*

3. Rex Gaskins, Animal Sciences
Bacterial detoxification as a basis for host-microbe interactions among marine invertebrates: a molecular ecology approach

(Conflict)

This project required review because of the possibility of encountering largely unknown pathogens while sampling fresh and salt water mollusks. Rex Gaskins, the PI, was absent during the meeting. The Committee unanimously by voice vote approved the project registration at BL-1, contingent on revising the

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

Biological Safety Committee
January 11, 2005
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project registration to reflect this biosafety level, and to indicate that eye protection, a lab coat, and gloves will be worn when harvesting the mollusk tissue and dissecting it.

Project under an Expedited Review

4. Federico Zuckermann, Veterinary Pathobiology
Porcine reproductive and respiratory syndrome (PRRS): methods for integrated control, prevention, and elimination of PRRS in United States swine-herds

This project required review because of the use of recombinant retrovirus. This project will require BL-2 containment, and the PI will have to test the recombinant retrovirus for replication-competency before using it for research purposes. The Committee unanimously by voice vote approved the project registration, contingent on clarifying the status of the biosafety cabinet or re-certifying it if necessary, providing additional documentation of personnel training, and correcting several errors on host range in IBC Form 3.

Discussion

NIH letter regarding potential inspection (Irene): NIH has announced that it will be arranging visits with selected institutions to discuss compliance with recombinant DNA guidelines.

Review of registration forms: The final revisions for Form 1 centered on resolving a problem with the hyperlinks. The revised form should be implemented as soon as possible.

Adjournment

The meeting adjourned at 11:30.

Biological Safety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

INSTITUTIONAL BIOSAFETY COMMITTEE

Minutes of the July 12, 2005 Meeting

Members Present Leanne Alworth, Janice Bahr, Steven Clough, Ned Hahn, Vickie Jarrell, Carol Maddox, Milton McAllister, Kipling Mecum, Gary Olsen, Gail Scherba, and Brenda Wilson

Ex Officio: Irene Cooke; Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Bettina Francis, Rex Gaskins, Uriel Kitron, David Lawrance, Terry Niblack, Lou Rhodes, and Jay Timmons

Call to Order Janice Bahr called the meeting to order at 10:09 AM.

Approval of Minutes Several errors were noted in the June 14 Minutes. A revised version will be presented at the next meeting.

Previously Considered Projects Requiring Review

1. Steven Blanke, Microbiology
Development of an early infection model of macrophage-B. anthracis interaction

2. Steven Blanke, Microbiology
Determine the molecular and cellular mechanism of Helicobacter pylori vacuolating cytotoxin (VacA) mediated cellular vacuolation

This project was tabled previously because insufficient information was provided. It required review because of the use of the human and animal pathogens, of cytolethal distending toxin, and of human cell lines. There were still several issues that were not sufficiently addressed in the revised registration. They included lack of a proper inventory system for toxins (especially for any that would be considered a Select Agent, if above the exempted amount), incomplete description of production, purification, and use of several toxins, failure to mention a disposal protocol for pathological waste, and misclassification of plasmid vectors as replication-competent. Further revisions would circulate to the Review Panel and thence to the full committee.

3. Steven Blanke, Microbiology
Determination of the mechanism by which cytolethal distending toxin secreted by Campylobacter jejuni causes intoxication of mammalian cells

This project was tabled previously because insufficient information was provided. It required review because of the use of the human and animal pathogens *Campylobacter coli* and *C. jejuni*, of cytolethal distending toxin, and of human cell lines.

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

Institutional Biosafety Committee
July 12, 2005
Page 2

A conditional approval was granted for BL-2 containment; but there were still three issues that were not sufficiently addressed in the revised registration. Some pathogens in use lacked a corresponding Form 3; some plasmids were misclassified as replication-competent; liquid waste with bleach was going to be incorrectly processed by autoclaving. The Review Panel would confirm that the PI has responded appropriately to the three above concerns.

4. David Enstrom, Illinois Natural History Survey
Incidence and progression of West Nile virus infection in the northern cardinal (Cardinalis cardinalis)

Biohazard Projects Requiring Review

5. Kelly Tappenden, Food Science and Human Nutrition
Rapid regulation of rat intestinal glucose transport

6. Nohra Mateus-Pinilla, Illinois Natural History Survey
Habitat use of Ixodes scapularis and assessment of the presence or absence of Borrelia burgdorferi in Robert Allerton Park

7. Tony Goldberg, Veterinary Pathobiology
Egg immunology and nest microbial ecology

8. Glen Hartman, Crop Science
Illinois Plan for Management of Soybean Rust: Sentinel Plots, Diagnostics, Outreach, and Research

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

Institutional Biosafety Committee
July 12, 2005
Page 3

Discussion

No items were discussed.

Adjournment

The meeting adjourned at 11:55 AM.

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

INSTITUTIONAL BIOSAFETY COMMITTEE

Minutes of the June 14, 2005 Meeting (Amended)

Members Present Leanne Alworth, Janice Bahr, Bettina Francis, Ned Hahn, Vickie Jarrell, David Lawrance, Carol Maddox, Milton McAllister, Terry Niblack, Gary Olsen, Gail Scherba, Jay Timmons, and Brenda Wilson

Ex Officio: Irene Cooke; Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Steven Clough, Rex Gaskins, Uriel Kitron, Kipling Mecum, and Lou Rhodes

Call to Order Carol Maddox called the meeting to order at 10:05 AM.

Approval of Minutes May 10, 2005 minutes

Biohazard Projects Requiring Review

1. Manabu Nakamura, Food Science and Human Nutrition
Regulation of HUFA metabolism by diets and other factors

This project required review because of the use of recombinant adenovirus in an animal system and also the use of a nonhuman, primate cell line. This project will require BL-2 and ABL-2 containment. It was unanimously approved by voice vote. The PI will have to submit a revised Form 3 to the Biological Safety Section that indicates the natural transmission route of adenovirus is via the respiratory route, not through tail vein injection. Numerous spelling errors were also noted.

2. David Enstrom, Illinois Natural History Survey
*Incidence and progression of West Nile virus infection in the northern cardinal (*Cardinalis cardinalis*)*

3. Steven Blanke, Microbiology
Development of an early infection model of macrophage-B. anthracis interaction

4. Steven Blanke, Microbiology
Determine the molecular and cellular mechanism of Helicobacter pylori vacuolating cytotoxin (VacA) mediated cellular vacuolation

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

Institutional Biosafety Committee
June 14, 2005
Page 2

There was insufficient information provided. The Committee decided unanimously by voice vote to table this registration.

5. Steven Blanke, Microbiology
*Determination of the mechanism by which cytolethal distending toxin secreted by
Campylobacter jejuni causes intoxication of mammalian cells*

There was insufficient information provided. The Committee decided unanimously by voice vote to table this registration.

6. Rebecca Stumpf, Anthropology
Female reproductive strategies in chimpanzees of the Budongo Forest, Uganda

Discussion

IBC project registration forms: Form 6, animal use, was modified based on Committee input.

Adjournment

The meeting adjourned at 11:38 AM.

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough •
Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance •
Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper •
Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

INSTITUTIONAL BIOSAFETY COMMITTEE

Minutes of the March 8, 2005 Meeting

Members Present Leanne Alworth, Janice Bahr, Steven Clough, Bettina Francis, Vickie Jarrell, Carol Maddox, Milton McAllister, Gail Scherba, and Brenda Wilson

Ex Officio: Irene Cooke; Monica Miller

Guests: Linda Arseneau

Members Absent Rex Gaskins, Ned Hahn, Uriel Kitron, David Lawrance, Kipling Mecum, Terry Niblack, Gary Olsen, Lou Rhodes, and Jay Timmons

Call to Order Janice Bahr called the meeting to order at 10:10am.

Approval of Minutes February 8, 2005 minutes with 1 typographical correction.

Previously Considered Projects Requiring Review

1. Laretta Rund, Animal Sciences
Development of a genetically tractable porcine model of cancer

Conflict, Rex Gaskins

This project required review because of the use of recombinant retrovirus, a human and animal hazard, and its inoculation into the somatic tissue of animals. Rex Gaskins was not present at this meeting. At the last meeting, the Committee unanimously by voice vote approved the project registration at BL-2 and ABL-2 containment levels with two questions. The Biological Safety Section was to internally review the revised project registration and determine whether the questions have been addressed satisfactorily.

After the last meeting, Randy Peper asked for clarification as to whether cells or viruses or both were to be injected into the pigs. Upon further internal review, Dr. Rund was asked to further clarify her project registration and also submit the human materials use form to account for the human cell line used to package the virus. The changes were judged to be substantially enough by the Chairs to warrant another full committee review

The Committee unanimously by voice vote approved the project registration at BL-2 and ABL-2 containment levels, with the following stipulations/questions;

- 1.) Remove all references to bleaching the pit reservoir.

The Biological Safety Section will internally review the revised project registration and determine whether the questions have been addressed satisfactorily.

2. Laretta Rund, Animal Sciences
Development of a genetically tractable porcine model of cancer using a lentivirus infection method

Conflict, Rex Gaskins

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

Institutional Biosafety Committee
March 8, 2005
Page 2

This project required review because of the use of recombinant lentivirus, a human and animal hazard, and its inoculation into the somatic tissue of animals. Rex Gaskins was not present at this meeting. The Committee unanimously by voice vote approved the project registration at BL-2 and ABL-2 containment levels, with four stipulations/questions. The Biological Safety Section was to internally review the revised project registration and determine whether the questions have been addressed satisfactorily.

After the meeting, Randy Peper asked for clarification as to whether cells or viruses or both were to be injected into the pigs. Upon further internal review, Dr. Rund was asked to further clarify her project registration and also submit the human materials use form to account for the human cell line used to package the virus. The changes were judged to be substantially enough by the Chairs to warrant another full committee review

The Committee unanimously by voice vote approved the project registration at BL-2 and ABL-2 containment levels, with the following stipulations/questions;

- 1.) Add the vector name for lentivirus in Form 2.

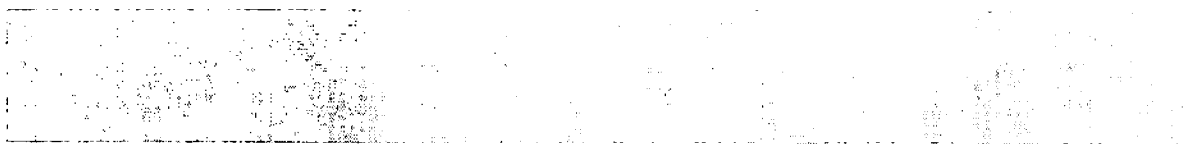
The Biological Safety Section will internally review the revised project registration and determine whether the question has been addressed satisfactorily.

Biohazards Projects Requiring Review

3. Elizabeth Jeffery, Food Science and Human Nutrition
Sulforaphane and multidrug resistance



4. James Imlay, Microbiology
Photooxidation with nitrogen-doped titanium oxide



5. Paul Hergenrother, Chemistry
Characterization of plasmids encoding VanA glycopeptide resistance in Enterococci and restoration of antibiotic-susceptibility



This project required review because of the use of the antibiotic resistant pathogenic bacteria, vancomycin resistant Enterococci, requiring BL-2 containment level. This project was approved contingent upon the following items;

- 1.) Certification of Biological Safety Cabinet
- 2.) All lab audit deficiencies are corrected
- 3.) Receive training for proper packaging materials and instructions on transporting infectious substances from Carle.
- 4.) State that only DNA or non-viable organisms will be shipped to the Biotechnology Center.

The Biological Safety Section will internally review the revised project registration and determine whether the questions have been addressed satisfactorily.

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

Institutional Biosafety Committee
March 8, 2005
Page 3

Discussion

IBC project registration form revisions: Form 2 (recombinant DNA) revisions were collected. Several involved reorganization of some of the table headings. Form 3 (Pathogens) revisions were collected. Revisions involved several re-organizational changes to tables and adding more questions specific to plant pathogens.

Expedited reviews: Monica Miller discussed the background, current process, issues, and suggestions for improving an expedited review.

Adjournment

The meeting adjourned at 11:45 am.

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

INSTITUTIONAL BIOSAFETY COMMITTEE

Minutes of the May 10, 2005 Meeting

Members Present Leanne Alworth, Janice Bahr, Bettina Francis, Ned Hahn, Vickie Jarrell, David Lawrance, Carol Maddox, Milton McAllister, Kipling Mecum, and Brenda Wilson

Ex Officio: Irene Cooke; Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Steven Clough, Rex Gaskins, Uriel Kitron, Terry Niblack, Gary Olsen, Lou Rhodes, Gail Scherba, and Jay Timmons

Call to Order Janice Bahr called the meeting to order at 10:08 AM.

Approval of Minutes April 12, 2005 minutes

Previously Considered Projects Requiring Review

1. James Imlay, Microbiology
Photooxidation with nitroaen-doped titanium oxide

Biohazard Projects Requiring Review

2. J. Kim Kemper, Molecular and Integrative Physiology
Metabolic regulation of bile acid biosynthesis

This project required review because of the use of adenoviral vectors in live animals and the use of human cell lines. The project was unanimously approved by a voice vote with BL-2 and ABL-2 containment. A check will be made to determine if a lab audit should be scheduled.

3. Paul Garber, Anthropology
*A preliminary study of niche partitioning and seed dispersal by ruffed lemurs (*Varecia variegata*), brown lemurs (*Eulemur fulvus*) and red-bellied lemurs (*Eulemur rubriventer*) in Ranomafana National Park, Madagascar*

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

Institutional Biosafety Committee
May 10, 2005
Page 2

4. William Helferich, Food Science and Human Nutrition
In vivo efficacy testing of PAC-1

Discussion

Process for updating IBC project registrations: The Committee made some suggestions for word changes on the forms.

IBC project registration forms: Suggestions were made on Form 6. This form will be discussed later at the next meeting.

Adjournment

The meeting adjourned at 11:45 AM.

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Steven Clough • Irene Cooke • Bettina Francis • Rex Gaskins • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Randall Peper • Lou Rhodes • Gail Scherba • Jay Timmons • Brenda Wilson

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

INSTITUTIONAL BIOSAFETY COMMITTEE

Minutes of the November 8, 2005 Meeting

- Members Present** Robert Brunner, Jeffrey Gardner, David Lawrance, Carol Maddox, Milton McAllister, Kipling Mecum, Gary Olsen, Richard Tapping, Carl Wegel, and Brenda Wilson
- Ex Officio: Irene Cooke and Monica Miller
- Guests: Linda Arseneau, Michael Vodkin, and Tina McGill
- Members Absent** Janice Bahr, Hans Blaschek, Steven Clough, Bettina Francis, Lyndon Goodly, Edwin Hahn, Vickie Jarrell, Uriel Kitron, Terry Niblack, Gail Scherba, and Jay Timmons
- Call to Order** Carol Maddox called the meeting to order at 10:08 AM. A quorum was present.
- New BSS Member** Tina McGill was introduced as the new Project Specialist. She will be regularly attending the meetings as a guest.
- Approval of Minutes** The October 11 Minutes were unanimously approved by voice vote.

Previously Considered Projects Approved after October 11 Meeting

The following three projects were approved via e-mail vote as a quorum was not present at the October 11th meeting.

1. Hao Feng, Food Science and Human Nutrition
Acoustic energy as a practical juice safety intervention for inactivation of acid tolerant pathogenic microorganisms
2. Byron Kemper, Molecular and Integrated Physiology
Regulation of cytochrome P450 biosynthesis
3. May Berenbaum, Department of Entomology
*Effects of allatoxin on *Helicoverpa zea**

Biohazard Projects Requiring Review

1. Ann Nardulli, Molecular and Integrative Physiology
Interaction of estrogen receptor with DNA

This project required review because of the use of human cell expression system and vectors with various viral bacterial promoters. The project was approved, contingent upon Dr. Nardulli and her staff attending the Bloodborne Pathogen Training and Dr. Nardulli having a clear and documented understanding of the status of the Hepatitis B Vaccine of her staff. This work will require BL-2 containment.

2. Matthew Wheeler, Animal Sciences

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Blaschek • Robert Brunner • Steven Clough • Irene Cooke • Bettina Francis • Jeffrey Gardner • Lyndon Goodly • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Gail Scherba • Richard Tapping • Jay Timmons • Carl Wegel • Brenda Wilson

Institutional Biosafety Committee
November 8, 2005
Page 2

Intradermal lateral spread of Botox in a swine skin model



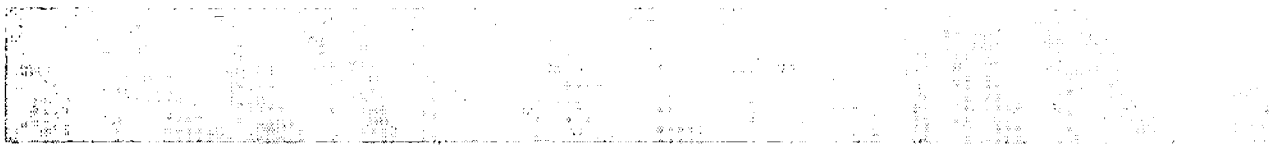
3. Myung Kim, Kim Laboratories, Inc.

Generation of monoclonal antibodies to and subsequent antibody-based detection of Staphylococcal aureus enterotoxins A and B



Discussion

Notification of Research Projects to BSS: The need for Grants and Contracts to notify BSS when funding is awarded as well as when no cost extensions have been approved was discussed. The committee also requested that BSS send out notices to the Principal Investigators when their project registrations neared their five year expiration date, providing a reminder to renew the project if necessary.



The NIH Annual Report was briefly discussed. Members were requested to submit updated Curriculum Vitae for this year if they have not already done so. BSS was requested to send out reminders to those committee members who needed to submit the requested document.

IBC project registration forms: Additional input was received on Form 4. The version of Form 5 that was presented received no comments for change.

Adjournment

The meeting adjourned at 11:10 AM.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

INSTITUTIONAL BIOSAFETY COMMITTEE

Minutes of the October 11, 2005 Meeting

Members Present Janice Bahr, Hans Blaschek¹, Jeffrey Gardner, Ned Hahn, David Lawrance, Carol Maddox, Milton McAllister, Terry Niblack, Gail Scherba, Richard Tapping

¹not present during project voting

Ex Officio: Irene Cooke and Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Robert Brunner, Steven Clough, Bettina Francis, Lyndon Goodly, Vickie Jarrell, Uriel Kitron, Kipling Mecum, Gary Olsen, Jay Timmons, Carl Wegel, and Brenda Wilson

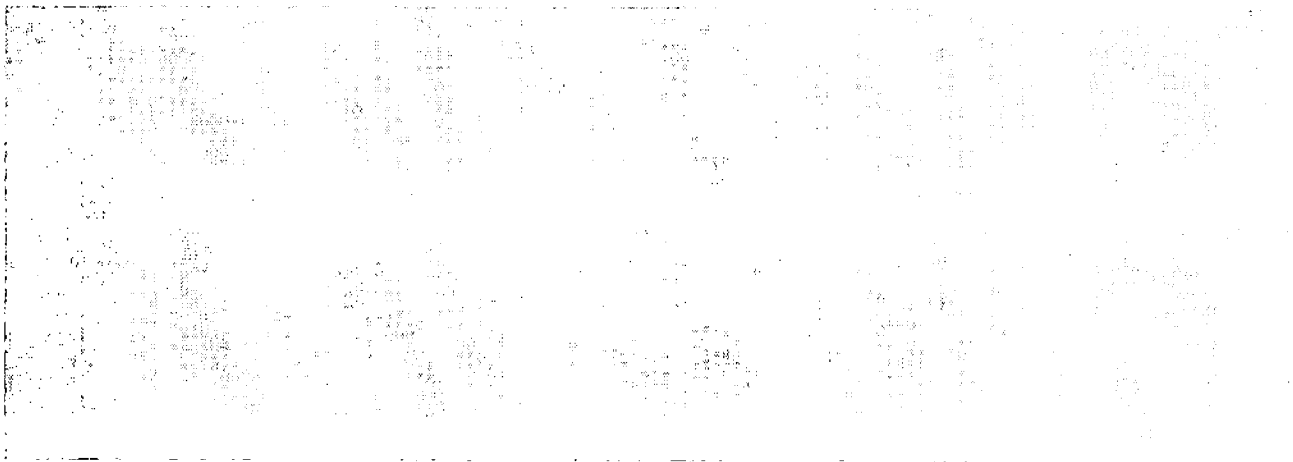
Call to Order Janice Bahr called the meeting to order at 10:06 AM. A quorum was not present. All items will require additional email votes from non-attending members until a majority positive vote of the membership has been reached.

New BSS Member Tina McGill was introduced as the new Project Specialist. She will be regularly attending the meetings as a guest.

Approval of Minutes The September 13 Minutes were unanimously approved by voice vote.

Previously Considered Projects Approved after September 13 Meeting

1. Jan Novakofski, Animal Sciences
CWD transmission characteristics



Previously Considered Projects Requiring Review

1. Hao Feng, Food Science and Human Nutrition
Acoustic energy as a practical juice safety intervention for inactivation of acid tolerant pathogenic microorganisms

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Blaschek • Robert Brunner • Steven Clough • Irene Cooke • Bettina Francis • Jeffrey Gardner • Lyndon Goodly • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Gail Scherba • Richard Tapping • Jay Timmons • Carl Wegel • Brenda Wilson

Institutional Biosafety Committee
October 11, 2005
Page 2

Biohazard Projects Requiring Review

2. Byron Kemper, Molecular and Integrated Physiology
Regulation of cytochrome P450 biosynthesis

This project required review because of the use of human and primate cell cultures, transgenic mice, adenovirus (a human and animal biohazard) vector and the inoculation of recombinant adenovirus into mice. The project was approved, with a minor revision, unanimously by voice vote at BL-2 and ABL-2 containment.

3. May Berenbaum, Department of Entomology
Effects of aflatoxin on Helicoverpa zea

4. Milton McAllister, Veterinary Pathobiology
Creation of a vaccine strain of Toxoplasma gondii

(Conflict)

Discussion

Campus ad hoc faculty lab research safety training committee (Irene Cooke): This is an ad hoc faculty committee to determine who will provide safety training on campus and how it will be provided.

IBC project registration forms: Input was received on Forms 4 and 5.

Institutional Biosafety Committee
October 11, 2005
Page 3

Adjournment

The meeting adjourned at 11:10 AM.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

INSTITUTIONAL BIOSAFETY COMMITTEE

Minutes of the September 13, 2005 Meeting

Members Present Janice Bahr, Hans Blaschek, Robert Brunner, Jeffrey Gardner, Lyndon Goodly, Ned Hahn, David Lawrance, Carol Maddox, Kipling Mecum, Gary Olsen, Carl Wegel, and Brenda Wilson

Ex Officio: Monica Miller

Guests: Linda Arseneau and Michael Vodkin

Members Absent Steven Clough, Irene Cooke, Bettina Francis, Vickie Jarrell, Uriel Kitron, Milton McAllister, Terry Niblack, Gail Scherba, Richard Tapping, and Jay Timmons

Call to Order Janice Bahr called the meeting to order at 10:06 AM. A quorum was not present. All items will require additional email votes from non-attending members.

Approval of Minutes The August 9 Minutes were unanimously approved by voice vote.

Introductions The members introduced themselves and provided their affiliation.

Previously Considered Projects Registered after August 9 Meeting

1. Ibulaimu Kakoma, Veterinary Pathobiology
Characterization of canine E. coli isolates and their similarities to human clinical E. coli isolates: investigation of possible presence of E. coli 0157 among dogs

Previously Considered Projects Requiring Review

1. Steven Blanke, Microbiology
Determine the molecular and cellular mechanism of Helicobacter pylori vacuolating cytotoxin (VacA) mediated cellular vacuolation

This project was tabled previously because insufficient information was provided. It required review because of the use of the human and animal pathogens, of cytolethal distending toxin, and of human cell lines. There were still several issues that were not sufficiently addressed in the revised registration. They included lack of a proper inventory system for toxins (especially for any that would be considered a Select Agent, if above the exempted amount), incomplete description of production, purification, and use of several toxins, failure to mention a disposal protocol for pathological waste, and misclassification of plasmid vectors as replication-competent. Further revisions would circulate to the Review Panel and then to the full committee.

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Blaschek • Robert Brunner • Steven Clough • Irene Cooke • Bettina Francis • Jeffrey Gardner • Lyndon Goodly • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Gail Scherba • Richard Tapping • Jay Timmons • Carl Wegel • Brenda Wilson

Institutional Biosafety Committee
September 13, 2005
Page 2

There is still no inventory system included with the Shiga-like toxin. This toxin is a potential Select Agent by amount. The CDC format, where applicable, should be used as a template for tracking the amounts. Apparently, a walk-in cold room will be used for this project. Neither its location nor its purpose was previously indicated. The revised registration should include this data. By unanimous voice vote, the Committee will delegate to BSS the monitoring of the revised registration. If deemed satisfactory, BSS will send it out to the non-attendees for voting.

Dr. Blanke submitted a revised project registration, and the Review Panel had previously approved it at BL-2 and ABL-2. The Committee approved it unanimously by a voice vote.

2. Stephen Farrand, Crop Sciences
Quorum-sensing signaling in Burkholderia spp.

This project was reviewed because of the use of wild type and recombinant, *Burkholderia thailandensis*, a Risk Group 2 human pathogen. (The recombinant organism would have reporter genes with native promoters.) The Committee contingently approved the registration with BL-2 containment unanimously by voice vote. However, there were a number of errors, and the biosafety cabinet should be approved. The Review Panel would have to confirm the adequacy of the revised registration prior to submission for email vote of the non-attending members.

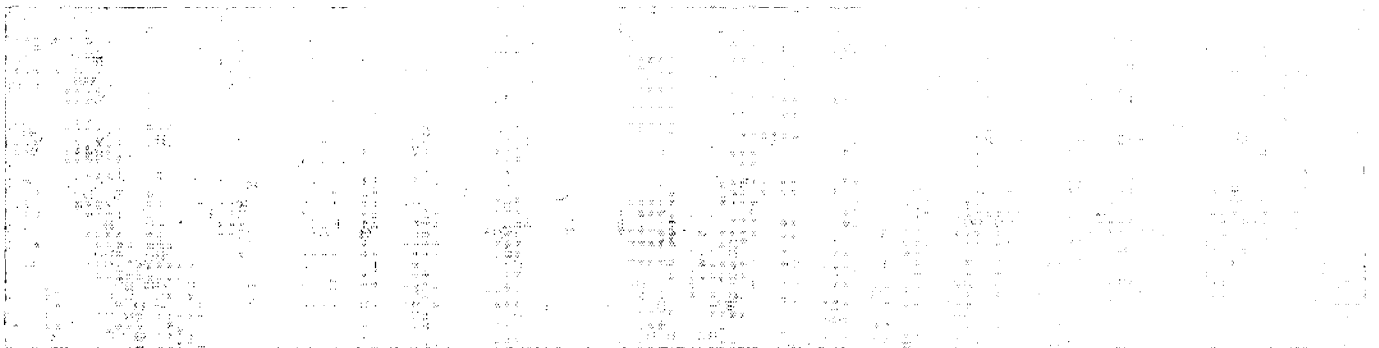
Dr. Farrand's revisions were generally satisfactory, but there were still several issues regarding the room location, the certification of the biosafety cabinet, and a laboratory audit. By a unanimous voice vote, the Biological Safety Section would monitor the appropriate resolution of these issues and issue an approval.

3. Steven Blanke, Microbiology
Botulinum neurotoxin inhibitor screening

This project was reviewed because of the use of multiple biotoxins and cloning of biotoxins or fragments thereof. There were many "cutting and pasting" and other types of errors as well. The Committee decided unanimously by voice vote to table this registration. One of the Chairs would contact Dr. Blanke to ensure his proper oversight of the writing and proofreading.

Carol Maddox did contact Dr. Blanke. At the time of the meeting, the revisions had not been received; so it was re-tabled unanimously by voice vote.

4. Jan Novakofski, Animal Sciences
CWD transmission characteristics



Institutional Biosafety Committee
September 13, 2005
Page 3

Biohazard Projects Requiring Review

5. Gary Olsen, Microbiology
Characterization of vaginal microorganisms

~~(Conflict-Brenda Wilson)~~

Gary Olsen and Brenda Wilson were excused prior to consideration, and the quorum was still maintained. This project required review because of the use of three human pathogens. It was noted that the hood needed to be re-certified. The project was approved unanimously with BL-2 containment by a voice vote, contingent on the hood re-certification.

6. Hao Feng, Food Science and Human Nutrition
Acoustic energy as a practical juice safety intervention for inactivation of acid tolerant pathogenic microorganisms

7. Carol Maddox, Veterinary Pathobiology
*Bacteriocin-like substance inhibits *Streptococcus equi* ssp. *equi**

~~(Conflict)~~

Carol Maddox was excused prior to consideration. This project required review because of wild type and recombinant animal pathogen and a wild type and recombinant human and animal pathogen. The project was approved unanimously with BL-2 and ABL-2 containment by a voice vote.

Discussion

There were no discussion items.

Adjournment

The meeting adjourned at 11:45 AM.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

INSTITUTIONAL BIOSAFETY COMMITTEE

Minutes of the February 14, 2006 Meeting

Members Present Janice Bahr, Robert Brunner, Steven Clough, Bettina Francis, Jeffery Gardner, Vickie Jarrell, David Lawrance, Carol Maddox, Milton McAllister, Kipling Mecum, Gail Scherba, and Carl Wegel

Ex Officio: Irene Cooke

Guests: Linda Arseneau, Tina McGill, and Michael Vodkin

Members Absent Hans Blaschek, Lyndon Goodly, Edwin Hahn, Uriel Kitron, Monica Miller, Terry Niblack, Gary Olsen, Richard Tapping, Jay Timmons, and Brenda Wilson

Call to Order Janice Bahr called the meeting to order at 10:04 AM. A quorum was present.

Approval of Minutes The January 10 Minutes were unanimously approved by voice vote.

Biohazard Projects Approved by Committee after January 10 meeting

1. Paul Hergenrother, Chemistry & Biochemistry
Characterization of Plasmid-Mediated Toxin-Antitoxin Systems and Antibiotic Resistance Determinants in Streptococcus spp.

~~Brenda Wilson (primarily), Jeffery Gardner, and Richard Tapping~~

This project required review due to the use of human/animal pathogens, *Streptococcus* spp. *S. pyogenes*, *S. pneumoniae*, *S. mutans*. The committee discussed this project at the January 10 meeting and decided that more specific information was needed regarding potential routes of exposure and handling of original isolates. Dr. Hergenrother responded to the questions posed by the committee and his responses were forwarded to the review panel for this project via e-mail. The review panel accepted Dr. Hergenrother's responses as sufficient and the project was officially approved by the review panel.

Biohazard Projects Requiring Review

1. Brenda Wilson, Microbiology
Structure-function studies of Pasteurella multocida toxin (PMT), E. coli cytotoxic necrotizing factors 1 and 2 (CNF1, CNF2), Yersinia cytotoxic necrotizing factor Y (CNFY), Bordetella dermonecrotic toxin (DNT), and fragments or mutations thereof – interactions with eukaryotic cells and effects on eukaryotic signal transduction pathways

This project required review due to the use of biotoxins, pathogens, & rDNA of biotoxin genes. The committee approved the project unanimously by voice vote at Biosafety Level 2.

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Blaschek • Robert Brunner • Steven Clough • Irene Cooke • Bettina Francis • Jeffrey Gardner • Lyndon Goodly • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Gail Scherba • Richard Tapping • Jay Timmons • Carl Wegel • Brenda Wilson

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February 14, 2006
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2. Schuyler Korban, Natural Resources and Environmental Sciences
Response of immunocompromised test animals to a plant-based respiratory-based syncytial virus (RSV) vaccine

This project required review due to the use of transgenic plants and potentially infectious RSV. The committee approved the project unanimously by voice vote at Animal Biosafety Level 1, Plant Biosafety Level 1, and Biosafety Level 1. The committee also noted that all ELISA work being performed needed to be done in either the biosafety cabinet or on the benchtop with face protection.

Discussion

Janice Bahr asked about the outcome of Paul Hergenrother's project from the January meeting. The committee was informed that Dr. Hergenrother submitted revised forms that were distributed to the review panel by e-mail and the review panel approved the project upon receipt of those forms. Carol requested that the outcome be added to the minutes.

Carol Maddox informed the committee that she and Janice Bahr will be meeting with the Vice Chancellor of Research in the near future. She requested that committee members provide the chairs with any items of discussion that should be included during that meeting.

Milt McAllister distributed a letter to all committee members that he wrote regarding Biosafety Level 2 policies. The chairs requested that the committee members read the letter and provide their comments back to the chairs so that they could compile the comments into one response letter.

Adjournment

The meeting adjourned at 10:37 AM.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

INSTITUTIONAL BIOSAFETY COMMITTEE

Minutes of the January 10, 2006 Meeting

Members Present Janice Bahr, Robert Brunner, Jeffery Gardner, Edwin Hahn, David Lawrance, Carol Maddox, Milton McAllister, Kipling Mecum, Gary Olsen, Richard Tapping, Carl Wegel, and Brenda Wilson

Ex Officio: Irene Cooke and Monica Miller

Guests: Tina McGill and Michael Vodkin

Members Absent Hans Blaschek, Steven Clough, Bettina Francis, Lyndon Goodly, Vickie Jarrell, Uriel Kitron, Terry Niblack, Gail Scherba, and Jay Timmons

Call to Order Janice Bahr called the meeting to order at 10:06 AM. A quorum was present.

Approval of Minutes The December 13 Minutes were unanimously approved by voice vote.

Biohazard Projects Requiring Review

1. Scott Silverman, Chemistry
Allosteric DNAzyme sensors for a practical detection of mycotoxins

This project required review due to the use of biotoxins (fumonisin and moniliforme) and rDNA. The mycotoxins will be used in small quantities. No more than 2 mg of deoxyvalinol or fumonisin will be present in the laboratory at any given time. The original proposal contained some omissions and inconsistencies that were amended by the PI. The project was approved at BL1 unanimously by voice vote.

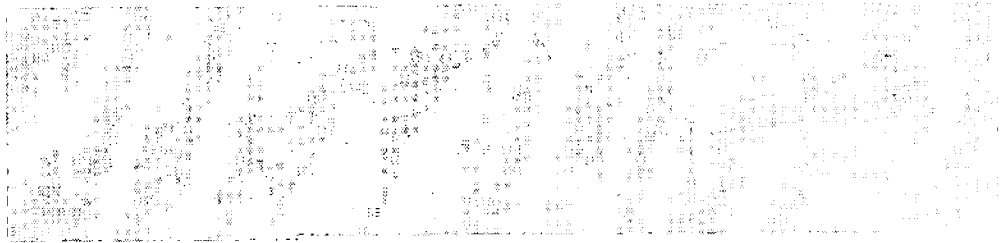
2. Paul Hergenrother, Chemistry & Biochemistry
Characterization of Plasmid-Mediated Toxin-Antitoxin Systems and Antibiotic Resistance Determinants in Streptococcus spp.

This project required review due to the use of human/animal pathogens Streptococcus spp. (*S. pyogenes*, *S. pneumoniae*, *S. mutans*). The committee discussed this project and decided that more specific information was needed regarding potential routes of exposure and handling of original isolates. The project was approved unanimously by voice vote pending the PI satisfactorily expanded on the two issues noted above. The PI response will be forwarded to the review panel to determine whether the response is adequate.

Discussion

Institutional Biosafety Committee: Janice Bahr, Co-Chair • Carol Maddox, Co-Chair • Hans Blaschek • Robert Brunner • Steven Clough • Irene Cooke • Bettina Francis • Jeffrey Gardner • Lyndon Goodly • Edwin Hahn • Vickie Jarrell • Uriel Kitron • David Lawrance • Milton McAllister • Kipling Mecum • Monica Miller • Terry Niblack • Gary Olsen • Gail Scherba • Richard Tapping • Jay Timmons • Carl Wegel • Brenda Wilson

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Dr. Cooke also discussed the annual DRS report, which committee members expressed interest in receiving. DRS will forward electronic copies of that report to the committee.

Monica Miller discussed the revisions made to the project assessment form. The new version was distributed at the meeting and discussed. The suggestion was made to remove the word recommended changes and leave it at required changes and to add recommendations to the other comments section. BSS will have the new version posted on the IBC webpage.

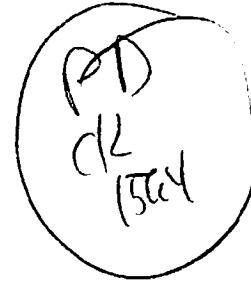
Adjournment

The meeting adjourned at 11:15 AM.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Public Affairs

Swanlund Administration Building
601 East John Street
Champaign, IL 61820



March 27, 2006

Edward Hammond
The Sunshine Project
PO Box 41987
Austin, TX 78704

Dear Mr. Hammond:

I am responding to your request letter that arrived in our office on March 17, 2006 under the Freedom of Information Act for access to "...the minutes of all meetings of the University of Illinois at Urbana Champaign Institutional Biosafety Committee (IBC) since 1 May 2003..."

These are public documents and number 84 pages. The documents may be inspected in the Office of Public Affairs, or a copy may be obtained at the rate of 25¢ per page. If you wish to receive a copy of these documents, please send a check payable to the University of Illinois in the amount of \$25.05 (84 pages x 25¢ plus \$4.05 postage) to Jaclyn Banister at the address above.

Portions of the documents have been redacted for the following reasons:

- Section 140/7 (1)(b) of the act exempts from disclosure "information that, if disclosed, would constitute a clearly unwarranted invasion of personal privacy, unless the disclosure is consented to in writing by the individual subjects of the information."
- Section 140/7(1)(g) of the act exempts from disclosure "trade secret and commercial or financial information obtained from a person or business where the trade secrets or information are proprietary, privileged, or confidential, or where disclosure of the trade secrets or information may cause competitive harm, including all information determined to be confidential under Section 4002 of the Technology Advancement and Development Act."
- Section 140/7(1)(w) of the act exempts from disclosure "information related solely to the internal personnel rules and practices of a public body."

You have a right, under the law, to appeal this decision to President B. Joseph White, 364 Henry Administration Building, University of Illinois, 506 South Wright Street, Urbana, Illinois 61801.

Sincerely,

Robin Kaler, JFS

Robin Kaler
Associate Chancellor
and Public Records Officer

C: Mark Henss
Lex Tate