

**THE UNIVERSITY OF TEXAS AT TYLER  
INSTITUTIONAL BIOSAFETY COMMITTEE  
July 16, 2025**

**MEMBERS' PRESENT:**

Dr. Galina Florova – IBC Chair – Professor Cellular and Molecular Biology  
Dr. Buka Samten – IBC Member - Associate Professor of Microbiology  
Dr. Wei-Chin Ho – IBC Member – Assistant Professor of Biology  
Dr. Dustin Patterson – IBC Member - Professor of Chemistry & Biochemistry  
Dr. Hua Tang – IBC Member – Professor of Biochemistry  
Ms. Beth R. Filla – Local Non-affiliated member - Bachelor of Science in Agricultural Development  
Ms. Nell R. Patterson – Local Non- Affiliated member - Certified Public Accountant  
Mr. Chris Frydenlund - Senior Manager Research Compliance  
Dr. Amy Tvinnereim - Director, Animal and Biosafety program

**OTHERS PRESENT:**

Recorder Secretary

**MEMBERS ABSENT:**

Mr. Michael Medford  
Dr. Wei Chin Ho left the meeting at 3:17 p.m.

**OLD BUSINESS:**

The committee meet at the BMR Auditorium Room 119.1

**I. CALL TO ORDER:**

The meeting was called to order at 1:35 p.m.

**II. APPROVAL OF MINUTES:**

The minutes from the IBC meeting held on May 15, 2025, were approved with slight modifications. The name of the recording secretary will be removed from the minutes, and Dr. Florova seeks to verify whether the names of the members need to be disclosed in the minutes when they cast their votes.

The committee reviewed the minutes, and a motion was made by Dr. Samten to approve the minutes. Dr. Tang seconded the motion.

**APPROVE: 8      ABSTAIN: 0      OPPOSE: 0**

**III. REVIEW OF IORRC MINUTES:**

The minutes from the IORRC meeting held on April 16, 2025, were reviewed by the IBC members.

**IV. CHAIRMAN'S REPORT:**

None

**V. OLD BUSINESS:**

None

**VI. NEW BUSINESS:**

**Recombinant DNA protocols**

**1. rDNA Protocol 264**

Protocol	(PI)	Project Title	BSL	ABSL	Campus
264	Dr. Wei-Chin Ho	"Fitness Effects of Mutations in <i>Escherichia coli</i> "	BSL1	N/A	UT Main Campus

**Project overview**

The overall goal of research is to investigate the genetic and phenotypic mechanisms underlying the evolution of *Escherichia coli* populations under different environmental conditions and different media. Combining the evolution experiments and bioinformatic analysis, we will choose some candidate mutations that may be responsible for *E. coli*'s change of their growth abilities in different environments. To provide direct evidence for these growth effects, we will design oligonucleotides to introduce these candidate mutations to *E. coli*, generating the mutant type of *E. coli*. We will then grow *E. coli* with or without mutation to evaluate how much the mutation affects the growth rate of *E. coli* in focal environments.

Applicable NIH Guidelines: Section II-A-3, III, and IV-B-2-b

**Major points of discussion:**

- Agent characteristics (e.g. virulence, pathogenicity, environmental stability)
- Types of manipulations planned.
- Source(s) of the nucleic sequences (e.g., species)
- Nature of the nucleic acid sequences (e.g., structural gene, oncogene)
- Host(s) and vector(s) to be used
- Whether an attempt will be made to obtain expression of a transgene, and if so, the function of the protein that will be produced.
- 

**The following will be communicated to the PI:**

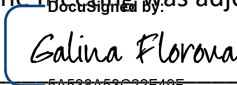
- **Page 1 Proposed project period from** - Please correct proposed project period dates.
- **Page 2 Experimental Plan in Lay Terms** – Please examine the term oligonucleotides and identify a synonym that can be easily understood in simple language, such as "short sequence of DNA".
- **Page 4 A. Host** – Please italicize *E. coli* throughout the protocol.
- **Page 5 D. Deliberate attempts will be made to express the following genes** – Please clarify which genes of interest you are planning to express. Please clarify if mutations of the genes of interest would change pathogenicity of the host.
- **Page 6 7. Potential biohazards and safety considerations A. Chemicals** – Chemicals Platinum and Quick-DNA fungal/Bacterial Miniprep Kit Could you please specify whether kits contain chemicals that are classified as level one or two? If so, please submit the HC protocol.

The committee reviewed the protocol, and a motion was made to approve the protocol pending corrections.

**APPROVE: 7      ABSTAIN: 0      OPPOSE: 0**

**VII. ADJOURNMENT:**

The meeting was adjourned at 2:54 p.m.

  
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 Galina Florova, Ph.D. – Chair  
 Institutional Biosafety Committee

## Certificate Of Completion

Envelope Id: B66FDF1E-5249-4F85-8AF9-29772872BC4F

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Galina Florova

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Professor Cellular and Molecular Biology

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## Timestamp

## Witness Events

## Signature

## Timestamp

## Notary Events

## Signature

## Timestamp

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