



**“Building Bridges Around Building Genomes”
Synthetic Genomics Workshop
August 4-5, 2009**

Agenda

Day 1

8:00 – 9:00 AM

Registration

9:00 – 9:15 AM

Opening Remarks

Peacock Court (all day)

Section Chief Joseph Campbell

Federal Bureau of Investigation
Weapons of Mass Destruction Directorate

Special Agent in Charge Stephanie Douglas

FBI San Francisco Field Office

Carol Linden, Ph.D.

Principal Deputy Director
Office of the Assistant Secretary for Preparedness and
Response
Biomedical Advanced Research and Development Authority
Department of Health and Human Services

Norman Neureiter, Ph.D

Director
Center for Science, Technology, and Security Policy
American Association for the Advancement of Science

9:15 – 9:45 AM

**Perspective: Current National Security Threat and Role of
FBI**

Assistant Section Chief Jeffrey Muller

FBI WMD Directorate



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9:45 – 10:15 AM Broad View of Bio Security

Gerald Epstein, Ph.D.
Independent Science and Security Analyst

10:15 – 10:30 AM Break

10:30 – 11:45 AM Panel 1: Synthetic Biology: A Transforming Technology

Moderator: **Dana Perkins, Ph.D.**,
Senior Science Advisor
Office of the Assistant Secretary Preparedness and Response
Department of Health and Human Services

A: Current State of the Art/General Uses
Michele Garfinkel, Ph.D.
Policy Analyst and Associate Professor
J. Craig Venter Institute

B: Industry Perspective of Synthetic Biology
Drew Endy, Ph.D., Assistant Professor
Department of Bioengineering, Stanford University

C: The International Genetically Engineered Machine Competition
Randy Rettberg, Ph.D.
Director of the Registry of Standard Biological Parts
Director of iGEM
Principal Research Engineer in Biological Engineering,
Massachusetts Institute of Technology

D: An Emerging Challenge
Lawrence Kerr, Ph.D.
National Counterproliferation Center,
Office of the Director of National Intelligence

11:45 AM – 1:00 PM Lunch

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1:00 – 1:30 PM Framing the US Priorities: History and Approach

Michael Imperiale, Ph.D.

NSABB Member

Arthur F. Thurnau Professor of Microbiology and Immunology

University of Michigan

Jessica Tucker, Ph.D.

AAAS Science and Technology Policy Fellow

Office of the Assistant Secretary for Preparedness and Response

Department of Health and Human Services

1:30 – 3:30 PM Panel 2: Mitigating the Potential Risks and Building a Culture of Responsibility, Trust, and Cooperation between the Scientific and Security Communities on Synthetic Genomics

Moderator: **Kavita Berger, Ph.D.**

Project Director

Center for Science, Technology and Security Policy

American Association for the Advancement of Science

A: Ethical and Legal Implementation

Michael Selgelid, Ph.D.

Senior Research Fellow

Centre for Applied Philosophy and Public Ethics [CAPPE]

Deputy Director, National Centre for Biosecurity

The Australian National University, Canberra

B: Homeland Security

Sara Klucking, Ph.D.

Senior Scientist

Threat Characterization and Attribution, Chemical and Biological

Division, Science and Technology Directorate

Department of Homeland Security

C: Research Community

Carrie Wolinetz, Ph.D.

President, Director of Communications, Office of Public Affairs

Federation of American Societies for Experimental Biology

Short Break

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**Panel 2: Mitigating the Potential Risks and Building a Culture of
Responsibility, Trust, and Cooperation between the Scientific
and Security Communities on Synthetic Genomics**

(continued)

- D: Synthetic Genomics Company
John Mulligan, Ph.D.
Chairman/Chief Scientific Officer
Blue Heron Biotechnology
- E: Do It Yourself Biology
Jason Bobe, B.A., MSIS
Director of Community, Personal Genome Project
Harvard Medical School
Do It Yourself Biology [DIYbio]
- F: Law Enforcement
Edward You
Supervisory Special Agent
Weapons of Mass Destruction Directorate
Federal Bureau of Investigation

3:30 – 4:30 PM General Discussion

4:30 PM Reception – Top of the Mark (Cash Bar)

End Day 1

Day 2

9:00 – 9:30 AM Recap of Day 1 Activities
(Peacock Court)

9:30 – 11:30 AM Table Top Exercise
(Breakouts: California, Florentine, Garden, Powell)

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11:30 – 12:30 PM Lunch

12:30 – 1:00 PM Table Top Exercise Review
(Peacock Court)

1:00 – 3:00 PM Panel 3: International Perspectives

Moderator: **Jessica Petrillo, Ph.D.**

Bureau of International Security and Nonproliferation
Office of Chemical and Biological Weapons Reduction (ISN/CB)
U.S. Department of State

A: Corporate Global Perspective

Gary Burns, Ph.D.

Biosafety Officer

AstraZeneca

United Kingdom

B: Foreign Approaches to Pathogen Security

Jeremy Littlewood, Ph.D.

Director

Canadian Centre of Intelligence and Security Studies

Carleton University, Ottawa, Canada

C: International Association of Synthetic Biology (IASB)

Cord Staehler, Ph.D.

President/Chief Executive Officer

febit biomed gmbh, Germany

Break

D: Domestic and International Industry Efforts

Claes Gustafsson, PhD.

VP Sales and Marketing

DNA2.0 Inc



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E: Federal Law Enforcement Perspective

Paul Roffey, Ph.D.

Forensic Microbiologist

Forensic and Data Centres

Australian Federal Police

F: UN Biological Weapons Convention Perspective

Piers Millet, Ph.D.

Biological Weapons Convention

Implementation Support Unit

Office for Disarmament Affairs

United Nations

3:00 – 4:30 PM

General Discussion

4:30 PM

Conference Conclusion

