

*New Hampshire /
Dartmouth College*

COBRE

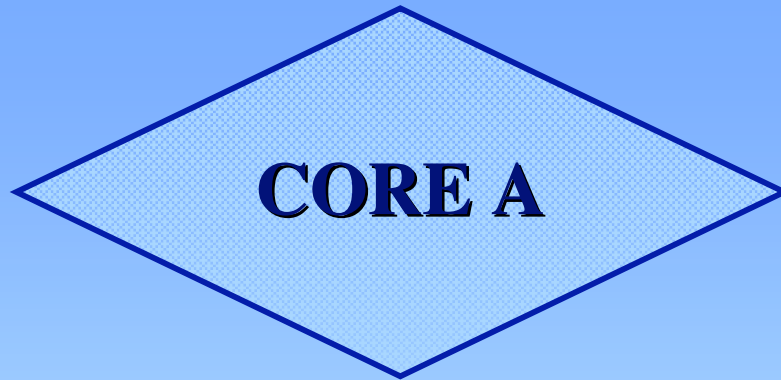
*“Inflammation and Specific
Immunity”*

**COBRE AWARD to
Dartmouth Medical School /
University of New Hampshire**

P20 RR16437:

**“Immune Mechanisms Controlling Inflammation
and Cancer”**

Funded 9/30/01 - 6/30/06



Administrative Core

William R. Green, Ph.D.

**PI,
Core A Director**

Micro/Immuno

William F. Hickey, M.D.

**Core A Co-Director
Backup PI**

**Pathology/Admin.
DMS -Associate Dean
of Academic Affairs**

Paul M. Guyre, Ph.D.

**DMS/UNH
Coordinator**

Physiology

William R. Trumble, Ph.D.

**Core A Co-Director /
UNH Consortium**

**Dean, Life Sciences
& Agriculture**

Goals of COBRE

- 1. To increase the numbers of independent investigators in New Hampshire, specifically at DMS/UNH, who are competitive in securing NIH extramural R01, etc. funding as PI's.**
- 2. To establish a Center for Inflammation and Specific Immunity Research that will be nationally recognized and free standing in 5 (to 10) years.**

Approaches to Achieve the COBRE Goals

1. *Develop* > five DMS junior faculty members by their leadership of individual research projects under the COBRE umbrella.

- * Project Leaders each directing an R01-sized research project as a P.I.
- * Mentoring by Drs. Green, Hickey and 2 dedicated, established Senior Mentors for each project.

2. *Recruitment of new tenure-track faculty using COBRE development funds (via enhanced start-up support):*

*** > 3 (10) Faculty recruits to DMS:**

Drs. Edward Usherwood	Micro and Immuno
Charles Sentman	Micro and Immuno
Paula Sundstrom*	Micro and Immuno
Deborah Hogan	Micro and Immuno
Zbigniew M. Szczepiorkowski	Pathology/Norris Cotton Cancer Center (NCCC)
Alexei F. Kisselev	PharmTox /NCCC
Brent Berwin	Micro and Immuno
Tim Lahey	Infect. Disease/Medicine
Mary Jo Turk	NCCC/Micro and Immuno
Jose Conejo-Garcia	Micro and Immuno

* Associate Professor

*** >2 (5) *Recruitment of new tenure-track faculty*
faculty to UNH:**

Lisa Clark, Ph.D.

Microbiology

Vaughn Cooper, Ph.D.

Microbiology

Cheryl Whistler, Ph.D.

Microbiology

Deena Small, Ph.D.

Animal & Nutrition Sciences

Charles Warren, Ph.D.

Biochemistry & Mol. Biology

3. *Support* for the Research Projects and COBRE as a whole by three cores:

Core A - Administrative

Core B - Molecular Biology/Immune
Monitoring Lab

Core C - Animals: Production and Breeding
Transgenic and Knock-out Mice

4. *Additional Infrastructure Support*

- * Consortium with UNH via Project 3
- * Expansion of UNH Mass Spectrometry Core
- * Purchase of a high-end tandem mass spectrometer
 - \$250K COBRE funding
 - \$125K DMS
 - \$125K UNH
- * Continuing annual operational support via Project 3

COBRE SUPPLEMENT (to P20 RR16437) RFA

“Bioexclusion Enhancement to the COBRE SPF Rodent Program”

William Green, P.I.; co-Invs: Brian Ermeling, Marilyn Brown, and Steve Fiering

\$500,000 Awarded via COBRE 9/1/02; Complete ~ 2/1/05

~\$550,000 DMS Institutional Support



PROJECT 1

***Stat5: Role in Cytolytic T
Lymphocyte Development and
Oncogenesis***

John A. Kelly, M.D.

Project Leader

Medicine/VA

James D. Gorham, M.D./Ph.D.

Mentor

Pathology

William R. Green, Ph.D.

Mentor

Micro/Immuno

PROJECT 2
Current
9/04 →

Chaperone-Mediated Immune Regulation

Brent Berwin, Ph.D

Project Leader

Micro/Immuno

Paul Guyre, Ph.D.

Mentor

Physiology

Michael Fanger, Ph.D.

Mentor

Micro/Immuno

Lisa B. Clark, Ph.D.

Co-Inv.

Microbiology -UNH

PROJECT 2

Previous

7/03 – 8/04

*Microvillar Structure and Function on Circulating
Lymphocytes*

Henry Higgs, Ph.D.

Project Leader

Biochemistry

Paul M. Guyre, Ph.D.

Mentor

Physiology

James D. Gorham, M.D./Ph.D.

Mentor

Pathology

Peter M. Morganelli, Ph.D.

Co-Inv.

Micro/Immuno/VA

Lisa B. Clark, Ph.D.

Co-Inv.

Microbiology - UNH

PROJECT 2

Previous

9/01 – 6/03

***Cytokine/Glucocorticoid Interactions
Controlling Inflammation***

James D. Gorham, M.D./Ph.D.

Project Leader

**Pathology,
Micro/Immuno**

Paul M. Guyre, Ph.D.

Mentor

Physiology

Peter Morganelli, Ph.D.

Co-Inv.

Micro/Immuno

Mark P. Yeager, M.D.

Co-Inv.

Anesthesiology

Thomas G. Pistole, Ph.D.

Co-Inv.

Microbiology – UNH

James M. Crawford, MD, Ph.D. Consultant

**Pathology -
University of Florida**



PROJECT 3

CD1 Acquisition of BCR/Fc Receptor Targeted Ligand

Mark L. Lang, Ph.D.	Project Leader	Micro/Immuno
Randolph J. Noelle, Ph.D.	Mentor	Micro/Immuno
William F. Wade, Ph.D.	Mentor	Micro/Immuno
Vernon N. Reinhold, Ph.D.	Co-Inv.	Biochemistry & Molecular Biology - UNH
Mitchell Kronenberg, Ph.D.	Consultant	Biology - LaJolla Institute



PROJECT 4

***Chemokine Responsiveness of Plasma Cells in
Autoimmunity***

Loren D. Erickson, Ph.D.

Project Leader

Micro/Immuno

William F. Wade, Ph.D.

Mentor

Micro/Immuno

William Rigby, M.D.

Mentor

Medicine



PROJECT 5

Concomitant Tumor Immunity

Mary Jo Turk, Ph.D

Project Leader

**Micro/Immuno/
NCCC**

Randolph Noelle, Ph.D.

Mentor

Micro/Immuno

William Rigby, M.D.

Mentor

Medicine



CORE B

***Molecular Biology Core/Immune Monitoring lab
(IML)***

Joyce A. DeLeo, Ph.D.

Core Director

**Anesthesiology &
Pharm/Tox**

Jackie Channon-Smith, Ph.D.

Co-Director

Micro/Immuno



CORE C

Animal Core:

Production and Breeding of Transgenic Mice

Steven N. Fiering, Ph.D.

Core Director

Micro/Immuno

INTERNAL STEERING COMMITTEE

T. Y. Chang, Ph.D.

Biochemistry

Joshua W. Hamilton, Ph.D.

Pharmacology/Toxicology

Michael B. Sporn, MD

Pharmacology/Toxicology

Bruce A. Stanton, Ph.D.

Physiology

EXTERNAL SCIENTIFIC ADVISORY COMMITTEE

Steven B. Abramson, M.D. **NYU School of Medicine**
- Hospital for Joint Diseases Ortho. Instit.

Dennis W. Metzger, Ph.D. **Center for Immunology**
- Albany Medical School

Martin J. Glennie, Ph.D. **Tenovus Research Institute**
- University of Southampton - U.K.

Ralph C. Budd, M.D. **University of Vermont**
- College of Medicine

James J. Mulé, Ph.D. **H. Lee Moffitt Cancer Center and**
- Research Institute at South Florida

Former EAC Member:

Sue K. Pierce, Ph.D. **NIH/NIAHD – Lab of Immunogenetics**