FYI

-----Original Message-----
From: Smith, Randy [mailto:Smith.70@osu.edu]
Sent: Wednesday, October 06, 2010 2:41 PM
To: Schlesinger, Larry
Cc: Bornstein, Robert
Subject: Questions for Department of MI&I

Larry:

Your Department proposal is with Subcommittee A of the Council on Academic Affairs (CAA). When it has completed its review it will bring the proposal to the full Council for action.

Outlined below are some points of clarification that we need.

If you can respond, briefly, to these it will help keep the process moving.

Just send your responses directly to me by e-mail. Bob can help with some of them given that we just completed another new department proposal (Plastic Surgery) from your College, and these issues came up there too.

Thanks.

Randy

1. How many of the faculty in the new department will be tenure track and how many will be clinical?

   A table listing the faculty in the proposed department and their designation might be useful.

2. How will the new Department be organized?
Plastic Surgery provided an organizational chart.

3. Will there be any changes to the tenure and promotion procedures for the faculty?

4. Where will the funding come from for the proposed department?

5. What are the budgetary implications for the departments losing faculty to the new department and for the college as a whole?

6. Will there be any impacts on students? If so, what are they?

7. What process was followed to produce the proposal? Were there discussions with faculty and/or students? Did the affected units vote on the proposal? If so, what were the results of those votes?
1. **How many of the faculty in the new department will be tenure track and how many will be clinical?**

This will be a basic science department. All faculty members will be on the tenure track. However, it is anticipated that there will also be faculty on the Research track.

2. **How will the new Department be organized?** A tentative org chart is below.

![Org Chart](image)

3. **Will there be any changes to the tenure and promotion procedures for the faculty?**

No. Standard procedures will be in effect.

4. **Where will the funding come from for the proposed department?**

Current university salary support for existing College of Medicine (COM) faculty in other departments who elect to join the new department will be transferred. Support for new faculty from outside of the COM or campus as well as infrastructure support will be provided through the Medical Center on the basis of an existing review process involving the Integrated Planning Committee and the Medical Center Cabinet.

5. **What are the budgetary implications for the departments losing faculty to the new department and for the college as a whole?**

There will be no adverse budgetary implications for the COM or COM departments from which faculty elect to transfer to the new department. The new department will be based
in an existing structure within the COM (School of Biomedical Science) and thus no new additional expenses will be required.

6. **Will there be any impacts on students? If so, what are they?**

Students will not be negatively impacted by the creation of the new Department, as all existing educational programs will continue. Instead, there will be a significant increase in the quality, breadth and depth of research and education opportunities for students involved in the disciplines of the new department. Postdoctoral trainees, medical students, graduate students, and undergraduate students will all be served by the programs in MI&I.

Postdoctoral trainees – We project our program will be involved in the training of approximately 25-30 scientists at any one time who hold the Ph.D. and/or M.D. degree.

Medical students – Faculty in MI&I will be involved in the education of these students through didactic lectures in the Host Defense Block (along with faculty in other units, particularly the Division of Infectious Diseases), which is currently taught in the spring of their first year. The medical student curriculum is currently undergoing revision, which will likely affect the demands on departmental faculty.

Graduate students – IBGP will continue to serve as the core graduate program from which to draw graduate students [including students in the Medical Scientist Program (MSP); the MD/PhD training program at OSU]. Since it is expected that several faculty members will have courtesy appointments with other departments, labs of MI&I faculty will also likely contain graduate students from other departments such as the Department of Microbiology and the Department of Veterinary Biosciences. There continues to be an active dialogue with the Department of Microbiology for a new joint disciplinary graduate program in microbiology and immunology. Department leadership will continue discussion with Microbiology and other units on campus to enhance the training opportunities for our graduate students.

Undergraduate students – These students will actively be involved in carrying out research under the direction of MI&I faculty. We estimate 20-30 undergraduates will be involved in the department at any one time. Several projected MI&I faculty members already train and educate students in the undergraduate Biomedical Sciences Program that is under the auspices of the College of Medicine. Interest in the disciplines of MI&I faculty continues to grow among undergraduate students at OSU.

7. **What process was followed to produce the proposal? Were there discussions with faculty and/or students? Did the affected units vote on the proposal? If so, what were the results of those votes?**

The proposal was developed upon the recommendations of and in conjunction with an appointed committee consisting of 3 faculty members (Drs. John Gunn, Joanne Turner and Dan Wozniak) and 2 administrators (Lisa Margeson and Heather Link). There were discussions with faculty and students. We also sought the suggestions of Chairs of distinguished Departments of Microbiology and Immunology (University of North Carolina, University of Michigan, and UCLA). We visited the websites of the top 20 rated Medical Centers in the country for additional input. Finally, we are attending to the advice of the Integrated Planning Committee of the COM at OSU.
Outside of the COM we received letters of support from the Chair of the Departments of Microbiology (College of Arts and Sciences) and Veterinary Biosciences (College of Veterinary Medicine), two departments with complementary interests.

The Chair (Dr. Michael Grever) and Associate Chairs of the Department of Internal Medicine within the COM are supportive of the formation of this department. Dr. Grever is in the process of obtaining a vote of the departmental faculty. I will forward a letter of support that includes the vote as soon as it is completed.
Melissa,

Here is the email message that Randy forwarded to me with the answers to my followup questions.

Jay

FYI

Randy:

See below
Thanks Larry. This was sent to the Subcommittee.

Two other things:

i) could you send me, by Wednesday Noon if possible, a list of the faculty who will be moving to the new department along with rank and current TIU

There has been no formal solicitation of faculty for this department. I have been instructed that this will not occur until the new department is approved. In the interim we have created a list of probable and possible faculty members from 5 TIUs within the College of Medicine.

This list has 14 probable faculty (8 Full, 1 Assoc, 5 Assist) and 13 possible faculty (2 full, 4 Assoc and 7 Assist).

ii) will this department have divisions according to research specialties?

None anticipated at this time

We are going to "try" and get this on the agenda of CAA this Wednesday (10/20), so if either you or Bob could attend (4-5 pm in Bricker 200) that would help.

I feel that I must attend. I have plans to meet with a senior visiting faculty member at that time so please let me know ASAP whether this is a go. I will then make other arrangements for this faculty.
Thanks.

Randy

-----Original Message-----
From: Schlesinger, Larry [mailto:Larry.Schlesinger@osumc.edu]
Sent: Wednesday, October 13, 2010 6:55 PM
To: Smith, Randy
Cc: Bornstein, Robert
Subject: RE: Questions for Department of MI&I

Dear Randy: Please see the attached. Let me know if you need more information.

Regards,

Larry

Larry S. Schlesinger, M.D.
Samuel Saslaw Professor of Medicine
Director, Division of Infectious Diseases and the Center for Microbial Interface Biology Director, Medical Scientist Program The Ohio State University

-----Original Message-----
From: Smith, Randy [mailto:Smith.70@osu.edu]
Sent: Wednesday, October 06, 2010 2:41 PM
To: Schlesinger, Larry
Cc: Bornstein, Robert
Subject: Questions for Department of MI&I
Larry:

Your Department proposal is with Subcommittee A of the Council on Academic Affairs (CAA). When it has completed its review it will bring the proposal to the full Council for action.

Outlined below are some points of clarification that we need.

If you can respond, briefly, to these it will help keep the process moving.

Just send your responses directly to me by e-mail. Bob can help with some of them given that we just completed another new department proposal (Plastic Surgery) from your College, and these issues came up there too.

Thanks.

Randy

1. How many of the faculty in the new department will be tenure track and how many will be clinical?

A table listing the faculty in the proposed department and their designation might be useful.
2. How will the new Department be organized?

Plastic Surgery provided an organizational chart.

3. Will there be any changes to the tenure and promotion procedures for the faculty?

4. Where will the funding come from for the proposed department?

5. What are the budgetary implications for the departments losing faculty to the new department and for the college as a whole?

6. Will there be any impacts on students? If so, what are they?

7. What process was followed to produce the proposal? Were there discussions with faculty and/or students? Did the affected units vote on the proposal? If so, what were the results of those votes?
Proposal for the Establishment of a Department of Microbial Infection & Immunity (MI&I)

The Ohio State University

College of Medicine

March 21, 2010
Introduction

This proposal requests the creation of a Department of Microbial Infection and Immunity (MI&I) in the College of Medicine (COM). This Department will increase the University’s ability to recruit top academic scientists with established research grant funding, provide more training opportunities for students, residents, and fellows, raise the Medical Center’s national rankings and bring international prestige to The Ohio State University.

Rationale

1. Define the mission of the proposed unit

   **Mission statement**
   Our mission is to foster a creative, interdisciplinary environment that probes fundamental questions at the interface of microbes with their host and their environment, and translate new knowledge into practical therapies that benefit society. We strive to provide outstanding collaborative educational opportunities in the areas of infectious diseases, microbial pathogenesis, and immunology that improve human health globally.

   **Goals**
   Our goals are to:
   1. Direct interdisciplinary programs that lead to the development of top-tier researchers, whose findings will broadly impact human health.
   2. Use cutting-edge model infectious disease systems that will accelerate discovery of diagnostic tools, therapeutics, and vaccines that can be translated into improved personalized patient care.
   3. Maintain a collaborative training environment with strong mentorship that fosters intellectual creativity and instills passion in the next generation of scientists to perform cutting edge research in microbial infection and immunity.
   4. Be international leaders in microbiology and immunology.

2. Define the purpose of the unit (investigate overlap with other academic units already established at the University and include letters of interest or objection)

   The Department of MI&I will bring visibility to and enhance the medical school’s national and international reputation in its discipline areas. It will also serve to complement and further enhance research, service, and teaching efforts in current OSU units including several clinical and basic science departments within the College of Medicine (e.g. Department of Internal Medicine, Division of Infectious Diseases and the Department of Molecular Virology, Immunology and Medical Genetics) and College of Biological, Math and Physical Sciences (BMAPS) (e.g. Department of Microbiology). Letters are included from Drs. Grever, Croce, Henkin and Platz; leaders of those respective departments/colleges. Other units with related interest areas include but are not limited to the College of Veterinary Medicine (e.g. Department of Veterinary Biosciences), College of Food, Agricultural and Environmental Sciences (e.g. Food Sciences), College of Dentistry, College of Pharmacy, College of Public Health, Nationwide Children’s Research Institute and the Ohio Agricultural Research and Development Center (OARDC) on the Wooster campus. Given the emphasis on campus-wide programming in the areas of infectious diseases, microbiology and immunology [including the TIE program, Public Health Preparedness for Infectious
Diseases (PHPID), and the Center for Microbial Interface Biology (CMIB, see below), it is expected that the new department will also draw interest from faculty in a number of other units throughout the campus and optimize synergy. Thus, its mission and goals are consistent with the focus on ONE University. Complementation rather than overlap of mission is perceived with other academic units already established at this University. The Department will consist of approximately 30 primary faculty (15-20 of which are current faculty at OSU), 9 administrative staff, and 100 research staff.

The CMIB is a multidisciplinary center at OSU that promotes and coordinates interdisciplinary research and training opportunities in infectious diseases, microbial pathogenesis and biodefense. The CMIB has established a track record of excellence for the University based on its continued growth through newly recruited faculty and impact due to its innovative and inclusive programming. The Center has fostered growth in the disciplines broadly related to microbiology and immunology. These disciplines are becoming more prominent in the biomedical sciences and include focus areas of federal (e.g. global health programs, Regional Centers of Excellence in Biodefense and Emerging Infectious Diseases, AIDS, tuberculosis, epidemiology, mathematical modeling, pharmacogenomics, etc.) and private (e.g. Gates Foundation) funding agencies. The faculty recruitments associated with the CMIB along with its growth and impact has now set the stage for the development of a premier Department of MI&I that can bring OSU’s Medical Center and campus front and center on the national and international stage. Such departments are in existence at all of the top level medical schools in the country. The CMIB will work closely with and complement the new department. Faculty members who were recruited to OSU as core faculty members of the CMIB are expected to serve as the initial cadre of faculty members of the new Department of MI&I.

One of the five focus areas of the OSU Medical Center Strategic Plan is the People Plan, which focuses on recruitment and retention of high quality employees. The development of a Department of MI&I will provide the Medical Center with the means to retain and support all levels of its personnel, including the Chair, the faculty, the staff, and the students.

Finally, a dedicated department of this nature will serve to improve the overall missions and functions of the Health Sciences and Allied Medical Professions departments and programs on campus.

3. Describe the role of the new unit in relationship to the larger administrative unit of which it will be a part

The Department of MI&I will be housed in the School of Biomedical Science in the College of Medicine. The Chair will report to the Dean of the College of Medicine.

4. Describe similar units at other universities in Ohio, in the Big Ten, and in the United States and their levels of success

Successful units from the University of Cincinnati College of Medicine, University of Michigan Medical School, University of Chicago, University of Wisconsin-Madison, Yale, Washington University, University of Washington Medical Center, University of North Carolina, and UCLA were reviewed for best practices. Highlights of their units follow:
Mission statements (when available)

University of Cincinnati College of Medicine, Department of Molecular Genetics, Biochemistry & Microbiology
Our mission is to achieve excellence in training the next generation of scientists and physicians, and to carry out research at the cutting edge of biomedical technology.

University of Michigan Medical School, Department of Microbiology and Immunology
We conduct research in microbial pathogenesis using the tools of molecular biology, genetic screens, cell culture, models of infection, molecular imaging, transgenic animals, and bioinformatics.

University of Wisconsin-Madison Medical School, Department of Medical Microbiology & Immunology
The mission of the Department of Medical Microbiology & Immunology (MMI) is to provide instruction, conduct research, and offer consultation in those areas of microbiology and immunology that bear on human disease.

UCLA, Department of Microbiology, Immunology and Molecular Genetics
Our mission is to provide the highest quality research and education possible in the interdisciplinary fields of Microbiology, Immunology and Molecular Genetics. To meet this goal, we work together as scientists, educators and students to identify and address the most relevant problems in microbial pathogenesis and physiology, host cell biology and immune defense, and the host-pathogen interface.

Yale University School of Medicine, Section of Microbial Pathogenesis
The scientific focus of the Section of Microbial Pathogenesis is the study of microbial pathogens using multidisciplinary approaches. The faculty members share the view that the understanding of the mechanisms by which microbial pathogens cause disease requires the understanding not only of the pathogenic microorganisms themselves but also the cellular and immune responses that they stimulate in the host. Specific areas of interest include mechanisms of pathogen internalization and survival within host cells, modulation of antigen presentation and host cell signal transduction by microbial pathogens, bacterial protein secretion, and development of antigen delivery systems for multivalent vaccines.

Washington University School of Medicine, Department of Molecular Microbiology
Provide an outstanding scientific environment for scientists interested in all aspects involving the roles of microbes in biology.

University of Chicago Medical Center, Department of Microbiology
Microbiology is the scientific discipline that examines microbes and microbial diseases. Apart from the contributions of Microbiology to human health, the foundations of modern molecular biology and genetics rest on research carried out on microbes. Basic research in Microbiology underlies the efforts to eradicate important pathogens from human populations and at the same time serves as the basis for the gene therapy of the future.

UNC School of Medicine, Department of Microbiology and Immunology
The special character of our department is reflected in our ability to ask and answer questions of biological & clinical relevance, the ease with which issues are addressed across disciplinary lines, and the enthusiasm with which we approach research, education, and training. Research programs in our department form a continuum of studies ranging from immunology to DNA sequence organization; from bioinformatics to epidemiology; from pathogenic mechanisms to vaccine development.

**Education and Research Focus**

**University of Cincinnati College of Medicine, Department of Molecular Genetics, Biochemistry & Microbiology**

Our graduate program provides a collegial atmosphere that fosters top quality research combined with in-depth course work, seminars, and journal clubs. In this environment, students learn to apply the latest scientific technology to the most exciting areas of biological research including: gene and chromosome structure, regulation of gene expression, protein chemistry and engineering, structural biology, membrane structure and function, intracellular trafficking, signal transduction pathways, oncoenes and growth factors, and pathogenic mechanisms. Research activities can be classified under one of four major "focus areas": Cancer Biology/Genetics of cell growth and development, Genetics/Biochemistry of cardiovascular and metabolic disease, Microbiology and Pathogenic Mechanisms, Structural Biology.

**UCLA, Department of Microbiology, Immunology and Molecular Genetics**

Microbiology, immunology, and molecular genetics are interwoven disciplines. Programs emphasize research at the molecular level and include studies basic cell and molecular biology, as well as investigation into the mechanisms of pathogenesis. Laboratories within the department are studying regulation and development of the immune system, immune response to infectious agents and cancer, the molecular and cellular bases of viral and bacterial pathogenesis, mechanisms underlying protein sorting and signal transduction, and the regulation of gene expression. Research areas include: Bacteriology, Parasitology, Virology, Immunology, and Molecular Genetics.

**University of Chicago Medical Center, Department of Microbiology**

The Committee on Microbiology is an educational program for graduate students towards the Doctor of Philosophy degree in Microbiology, as well as a research and teaching enterprise in the Pritzker School of Medicine and The University of Chicago. The College of the University of Chicago also offers an undergraduate concentration in the study of microbiology. Microbiology lies within a Biomedical Sciences Cluster at the University of Chicago consisting of five graduate programs: Cancer Biology, Immunology, Microbiology, Molecular Metabolism and Nutrition, and the Department of Pathology Molecular Pathogenesis and Molecular Medicine Graduate Program. The Cluster system enables these programs to integrate faculty, coursework, research programs, training programs, and seminars/symposia for a truly multidisciplinary training experience. The result for graduate students is an integrated and flexible course of study, with options to work with over 170 full-time faculty. For both pre- and postdoctoral trainees and faculty, the interdisciplinary nature of the Cluster provides extensive opportunities for interaction and collaboration.

**University of Michigan Medical School, Department of Microbiology and Immunology**
Creative and innovative research is the hallmark of our graduate program in the Department of Microbiology and Immunology. This challenging program is designed to provide a nurturing environment in which graduate students can fully develop and express their intellectual, research talents, and teaching abilities. These goals are accomplished through an integrated program of independent research, graduate courses, seminars and teaching. Entering students select from a wide range of stimulating courses designed to complete their preparation for advanced study and research. Molecular and cellular immunology, microbial pathogenesis, molecular virology, microbial physiology, cellular and molecular networks, biochemistry and molecular genetics are some of the topics covered in our courses. To facilitate development of skills necessary for a career in modern research and teaching, many courses are oriented towards discussion of the primary research literature. Research areas: Viral Pathogens; Bacterial Pathogens; Eukaryotic Pathogens; Innate Immunity; Adaptive Immunity; Cell Biology of Infection.

University of Rochester Medical Center, Department of Microbiology & Immunology
Program is focused on research and educational programs which relate to microbial pathogens (viruses and prokaryotic and eukaryotic microbes) and the host immune defenses which protect against these organisms. Current research emphasizes cutting-edge molecular techniques and includes, but is not limited to, studies on: autoimmunity, biodefense, bioinformatics biofilms, cancer biology, gene therapy, genetics, HIV/AIDS, immunologic mechanisms and vaccine development.

University of Washington Medical Center, Department of Microbiology
The research programs of the faculty in the Department of Microbiology at the University of Washington reflect exciting areas of modern microbiology. Faculty span a broad range of interests including microbial ecology, physiology, virology, and microbial pathogenesis in both animal and plant systems. The members of our department are largely concerned with understanding the mechanisms by which organisms interact with one another and with their environment at the cellular and molecular levels. Because of the strong interdisciplinary nature of these interests, numerous collaborative efforts between our faculty and those in other science and medicine departments have developed. Research areas include: Astrobiology; Bacterial Pathogenesis; Computational Biology; Environmental and Ecological Microbiology; Genomics and Proteomics; Immunology; Microbial Physiology and Genetics; Nanotechnology; and Virology.

University of Wisconsin-Madison Medical School, Department of Medical Microbiology and Immunology
The Department of Medical Microbiology and Immunology (MMI) provides an opportunity for graduate study only at the Ph.D. level, administered through the Microbiology Doctoral Training Program (MDTP) which is jointly sponsored by the departments of MMI and Bacteriology. The Program oversees students training for a Ph.D. degree at UW-Madison in one of the areas of Microbiology historically represented in the Ph.D. training programs of the Department of Bacteriology, College of Agricultural and Life Sciences (Bact.) and the Department of Medical Microbiology and Immunology, Medical School (MMI). These include but are not limited to biotechnology, environmental microbiology, host-symbiont or parasite interactions, immunology, medical microbiology, metabolic diversity and regulation, microbial pathogenesis, microbial ecology, regulation of microbial gene expression, and virology. Research areas include: Human pathogens and diseases including malaria, sleeping sickness, Lyme disease, HIV/AIDS, cancer, Neisseria gonorrhoeae, Escherichia coli O157:H7, Toxoplasma gondii,
influenza virus, Dengue virus, astrovirus, histoplasmosis, botulism, and herpes. Faculty members conduct immunology research that involves T cells biology, macrophage activation and complement biology.

**Washington University School of Medicine, Department of Molecular Microbiology**

Molecular Microbiology and Microbial Pathogenesis Program (part of an integrated graduate program in the Division of Biology and Biomedical Sciences) is one of four interdepartmental programs in Cell and Molecular Biology in the Division of Biology and Biomedical Sciences of the University. It is tailored to the needs and interests of the individual student and emphasizes laboratory research, supported by course work, journal clubs and seminars. The Program teaches comprehensive and modern approaches to understanding microbes and the diseases they cause. This program includes two major areas of research:

Molecular Microbiology: Research in molecular microbiology employs genetics, cell biology, biochemistry, and biophysics to investigate fundamental biological problems including environmental sensing and cell-cell signaling, transcriptional and post-transcriptional regulation, secretion, energy generation, and the bacterial cell cycle. State-of-the-art computational and comparative genomic approaches are used to study commensal, pathogenic, and environmental organisms in their natural environment.

Microbial Pathogenesis and Host Defense: Research in the molecular biology and biochemistry of pathogenic bacteria, fungi, protozoa, helminths and viruses, with an emphasis on mechanisms of virulence and host-parasite interactions. Applying a wide range of emerging technologies in molecular genetics and cell biology, this work includes the discovery and analysis of virulence-associated genes, the study of innate and acquired immunity to pathogens, and the identification and exploration of novel targets for chemotherapy.

**Yale University School of Medicine, Graduate Program in Microbiology, Section of Microbial Pathogenesis**

The Graduate Program in Microbiology was created as a multi-departmental, interdisciplinary Ph.D. program in training and research in the study of microorganisms and their effects on their hosts. The faculty of the Program share the view that understanding the biology of microorganisms requires a multidisciplinary approach and therefore the Microbiology Graduate program emphasizes the need for strong multidisciplinary training. The Program is designed to provide individualized education in modern microbiology and to prepare students for independent careers in research and teaching.

Students can specialize in various areas including bacteriology, virology, microbe-host interactions, microbial pathogenesis, cell biology and immunobiology of microbial infections, microbial genetics and physiology, parasitology, microbial ecology and evolution.

**UNC School of Medicine, Department of Microbiology and Immunology**

UNC Microbiology and Immunology conducts research and provides training in forefront areas of prokaryotic and eukaryotic molecular and cellular biology, molecular genetics, pathogenesis, bacteriology, virology and immunology, as well as in broad multi-disciplinary areas such as host-pathogen interactions, macromolecular structure, the nature of protein/protein and
protein/nucleic acid interactions, and mechanisms that control gene expression. Besides offering a comprehensive set of courses and seminar/tutorials for graduate students, the department provides instruction in microbial pathogenesis to students enrolled in the School of Medicine and Dentistry, as well as undergraduate students who seek admission into degree programs offered in the School of Nursing and Pharmacy.

### Size of Faculty

<table>
<thead>
<tr>
<th>University</th>
<th>Faculty Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Cincinnati College of Medicine</td>
<td>27 faculty</td>
</tr>
<tr>
<td>UNC</td>
<td>46 faculty</td>
</tr>
<tr>
<td>UCLA</td>
<td>29 faculty, 8 emeritus</td>
</tr>
<tr>
<td>University of Chicago</td>
<td>9 faculty</td>
</tr>
<tr>
<td>University of Michigan Medical School</td>
<td>35 faculty + 6 emeritus</td>
</tr>
<tr>
<td>University of Rochester Medical Center</td>
<td>84 faculty, 5 emeritus</td>
</tr>
<tr>
<td>University of Wisconsin-Madison</td>
<td>21 faculty, plus 3 affiliate</td>
</tr>
<tr>
<td>University of Washington Medical Center</td>
<td>39 faculty</td>
</tr>
<tr>
<td>Washington University</td>
<td>33 faculty, 5 adjunct/emeritus</td>
</tr>
<tr>
<td>Yale</td>
<td>39 faculty</td>
</tr>
<tr>
<td><strong>OSU (Proposed)</strong></td>
<td><strong>30 faculty</strong></td>
</tr>
</tbody>
</table>

5. Enumerate proposed major programs

### Education

The Department of MI&I will be responsible for the education of four primary groups of trainees. These include postdoctoral trainees (including fellows in clinical departments such as the Division of Infectious Diseases, Department of Internal Medicine), medical students, graduate students, and undergraduate students.

a. Enrollment projections:
Postdoctoral training – We project our program will be involved in the training of approximately 25-30 scientists at any one time who hold the Ph.D. and/or M.D. degree.

Medical students – OSU typically maintains a class size of approximately 200 medical students. Faculty in the Department of MI&I will be involved in the education of these students through didactic lectures in the Host Defense Block (along with faculty in other units, particularly the Division of Infectious Diseases), which is currently taught in the spring of their first year. The medical student curriculum is currently undergoing revision, which will likely affect the demands on departmental faculty.

Graduate students – The bulk of faculty efforts in the department with regards to education will be the training of graduate students. We anticipate that 6-10 graduate students per year will enter labs of the departmental faculty. IBGP will serve as the core graduate program from which to draw graduate students [including students in the Medical Scientist Program (MSP); the MD PhD training program at OSU]. Since it is expected that several faculty members will have joint appointments with other departments, labs of MI&I faculty will likely contain graduate students from other departments such as the Department of Microbiology and the Department of Veterinary Biosciences. IBGP students will undergo the established core curriculum prior to entering labs and several of these students are
expected to opt for study in emphasis areas such as microbial pathogenesis, immunology or virology. One goal of the new department will be to work closely with leadership in the IBGP to further enhance education in its discipline areas (this will be facilitated at the start by projected faculty members of the new department who are currently serving as director of the IBGP or as faculty liaisons of the emphasis areas of microbial pathogenesis and immunology in the IBGP). Below is an example curriculum for students (note semester schedule).

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Biology of human disease</td>
<td>Biology of human disease</td>
</tr>
<tr>
<td></td>
<td>IBGP graduate seminar</td>
<td>IBGP graduate seminar</td>
</tr>
<tr>
<td></td>
<td>Biomedical research ethics</td>
<td>Bioinformatics/research problems</td>
</tr>
<tr>
<td></td>
<td>Rotations</td>
<td>Rotations</td>
</tr>
<tr>
<td>Year 1-2</td>
<td>Laboratories chosen, thesis committees established</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 2</td>
<td>Advanced immunology or advanced microbial pathogenesis</td>
<td>Statistics</td>
</tr>
<tr>
<td></td>
<td>Grant writing</td>
<td>Selected topics in microbial pathogenesis</td>
</tr>
<tr>
<td></td>
<td>Research</td>
<td>Research</td>
</tr>
<tr>
<td></td>
<td>Committee meeting 1</td>
<td>Committee meeting 2</td>
</tr>
<tr>
<td>Year 2-3</td>
<td>Qualifying exam</td>
<td></td>
</tr>
</tbody>
</table>

| Years 3-5       | Research, seminars, annual committee meetings, and professional development |

| Year 4-5        | Professional development and thesis defense     |

As department plans are moving forward, there is active dialogue with the Department of Microbiology for a new joint disciplinary graduate program in microbiology and immunology. Department leadership will continue discussion with Microbiology and other units on campus to enhance the training opportunities for our graduate students.

Undergraduate students – The daily training of undergraduate students occurs in the laboratory environment. These students will actively be involved in carrying out research under the direction of MI&I faculty. We estimate 20-30 undergraduates will be involved in the department at any one time. Several projected MI&I faculty members already train and educate students in the undergraduate Biomedical Sciences Program that is under the auspices of the College of Medicine. Interest in the disciplines of MI&I faculty continues to grow among undergraduate students at OSU.

b. The goals for enrollees in the proposed educational programs include:
   · A nationally recognized program
   · A commitment to excellence in education
   · An environment with outstanding training opportunities
A dedicated mentoring program for trainees and faculty
Career development guidance for trainees
The involvement of students in the decision-making process
Extramural grant support for training

c. Estimate opportunities for graduates of the proposed programs.

The training that students receive in the Department of MI&I will prepare them for research and teaching careers in colleges and universities, as well as basic and applied research in private, industrial, and government laboratories. Trainees leaving our program can expect opportunities for future careers in microbiology, molecular biology, biochemistry, cell biology, microbial pathogenesis, immunology, public health, and clinical microbiology.

The training will provide students with the knowledge they need to conduct hypothesis-driven research that attacks critical issues related to the treatment, prevention, diagnosis, and management of infectious diseases as well as fundamental and applied aspects of microbiology and immunology. Trainees will excel in their ability to effectively communicate, both written and oral. They will have learned how to prepare, review, critique and defend research proposals and scientific literature. They will obtain critical thinking and logic skills that can be brought to bear on solving problems in diseases that afflict mankind.

All faculty members in the Department of MI&I will be dedicated to the development of an outstanding educational environment and will serve as potential role models and mentors. Each member will have an educational philosophy that has been shaped by the experiences, both positive and negative, that they have encountered during development as a scientist and educator. However, the educational philosophy will be geared towards reinforcing four underlying, yet inter-related principles. These are:

- The thrill of discovery
- Fostering inherent curiosity
- Tenacity trumps complacency
- Bringing knowledge to practice

First, there is nothing more satisfying to students (and to mentors) than experiencing the thrill of self-discovery. For example, the time that the first experiment works for a graduate student or the time a medical student makes connections between seemingly unrelated findings to arrive at a conclusion. The thrill of discovery provides continuing motivation for a lifetime of science and education. Second, faculty will encounter students who have entered our field because they have an underlying curiosity about how things in the world work. Engaging them in an active learning process will foster this curiosity. The faculty will continually ask them to seek solutions to problems, allow them to make mistakes, and challenge them with new questions. Guiding individuals to a point where they think and act independently is a challenging, but fundamental task of any responsible mentor. Third, the faculty must not allow students to become complacent in their education and training. Once they have mastered a skill or concept, they must rapidly move forward to new tasks. The faculty must instill in them a self-directed, life-long tenacity to continually seek a deeper truth. They must do this not only through words only, but also more importantly, through daily actions. Finally, faculty in the department will have an obligation as biomedical scientists to bring knowledge to practice. This means both communicating findings to others
and developing ideas that offer practical solutions to societal problems. These concepts and principles will be continually reinforced in the classroom, the laboratory, and during daily encounters with trainees.

The teaching methodologies that will be typically employed include the following:

- Introduce concepts, move to details, and reinforce concepts
- Engage the students in active dialogue
- Emphasize the scientific method
- Learn by interpreting data
- Learn by frequently organizing and presenting data

Thus, departmental faculty will be deeply committed to fostering the development of trainees. The outstanding reputation expected of the faculty, the resources at OSU, current and future NIH funded training grants, and adherence to these core principles will allow the department to develop an educational program in microbial infection and immunity of national and international stature. It is anticipated that the development of the department will place the university in a more competitive position to recruit the best and brightest students. The quality of the students coming into the program as well as the productivity of the students leaving the program will be tracked closely. An intense focus on the quality of the program, including its students and mentors, will greatly facilitate the acquisition of more training grants (a particular emphasis point) and awards, both for students and mentors, in discipline areas related to microbial infection and immunity.

6. State opportunities provided for study or application of the subject beyond the structure of the classroom

Trainees will have numerous educational opportunities outside of the classroom. In fact, most graduate education takes place outside of the classroom setting and occurs during training and dialogue in the laboratory setting. This typically takes place between the mentor and the trainee but also through discussions with other peers (post-docs, graduate students, other faculty members, etc.). All trainees will also be involved in literature-based journal clubs, which provide an in-depth analysis of current research on the fundamental processes in the functions of bacteria, viruses, and eukaryotic cells. There are several available seminars on campus which expose trainees to research areas and new ideas from visiting scientists. If trainees express interest in mentoring undergraduate students as they make plans for careers in biomedical research, there are numerous opportunities to assist with this endeavor. All mentors in the Department have an excellent relationship with clinical and research teams at OSU as well as Nationwide Children’s Hospital. Thus, trainees will also have the opportunity to oversee (shadow) clinicians and internal medicine care specialists in the clinic. This will allow them to make clinical and translational connections with their ongoing basic science studies. In addition, OSU was one of 23 institutions awarded a “Med into Grad” grant from the Howard Hughes Medical Institute. The goal of this program is to develop a program that encourages faculty and students to use interdisciplinary approaches to understanding human disease. Infectious disease is one of the six basic science areas chosen to be a part of this program. We will actively recruit trainees to participate in this program, which is designed to familiarize graduate students with pressing medical problems and current treatments for diseases related to their area of research. We will also actively recruit students to NIH-funded T32 training grant entitled “Interdisciplinary Study of the Microbe-Host Interface” (PI: Dr. Schlesinger) as well as intramural programs such as the PHPID and the CCTS. Thus, there
will be ample opportunities for students to engage in active learning outside of the classroom environment.

7. Estimate the potential to develop national or international recognition as an academic discipline

The Department of MI&I will increase the University’s ability to recruit top academic scientists with established research grant funding, provide more training opportunities for a variety of students, post-docs and research scientists, and raise the Medical Center’s national rankings in its discipline areas. As documented in this proposal, essentially all top tier medical schools have a strong department centrally focused on microbiology and immunology and these departments enhance the prestige of the medical school. Although in the past there were separate national rankings for these departments, they no longer exist (at least as a single entity). Rather, the success of this department will enhance the national ranking of the medical school and university by increased extramural funding (faculty and trainees, including PPGs and training grants), an increased volume of discipline-related publications in national and international journals with high impact factors and an increased number of faculty with national and international visibility (e.g. NIH study sections, other prestigious review boards, editors and editorial boards, awards, and honors, etc). This will be documented in the department’s annual report.

Additional Department Programming

Grant Review program
The Department of MI&I will establish a grant review program that allows for efficient, yet critical and effective internal review of grant proposals before they are submitted. It will enable participating investigators to be more competitive for funding at the national level and also provide opportunities for collaboration as well as mentoring experience for investigators at all career stages. A prototype program was launched with a subset of faculty in the CMIB and has been highly successful as measured by significant improvement in scores from one submission to the next, and an excellent track record of extramural funding. Faculty at all career stages and Research Scientists on an individual basis will be encouraged to participate, either as a member of a scientific advisory committee or as an applicant.

The applicant will meet with the grant review program director to discuss the scope of the grant and agree on the selection of a personally tailored scientific advisory committee. There will be a two-step review process:
Step 1: (2-4 months ahead of deadline)
• Committee 3 people (balanced representation)
• Meet to discuss preliminary data and research plan
• Agree on specific aims page and outline of proposal
• First draft written and edited for proper grammar/English

Step 2: (3-6 weeks ahead of deadline)
• Reviewed and critiqued by committee
• Revised
• Submit

Mentoring program
The success of the department will be highly dependent on the success of the individual faculty. Therefore, the Department of MI&I will initiate a faculty mentoring program to ensure that faculty members have the tools and understanding to obtain promotion and tenure, and to have a successful scientific career. Faculty in MI&I will be assigned two mentors (chosen by the mentee and senior faculty) that will meet bi-annually (or more frequently if required) to discuss their career progress, grant writing strategies, teaching load, and service activities. Faculty will also be provided with information through the mentoring program on career development materials and relevant workshops at OSU. Oversight of the mentoring program will be provided by a senior faculty member of the department.

**Faculty and staff awareness committee**

The well being of staff and faculty in the Department of MI&I will be a priority. A faculty and staff awareness committee will be established to provide MI&I personnel with a forum where they can voice their concerns and ideas on work-life issues and the committee will provide feedback to the department. The goal of the committee will be to enhance the balance of work-life for staff and faculty, and provide recommendations for change that can improve the well being of department personnel. The committee will also provide career support for student and staff, promote health related activities, and plan team building and social activities.

8. Describe previous submittals of the same or similar unit proposals (indicate reasons for withdrawal or disapproval)

Not applicable.

**Demand**

1. Give evidence of sufficient demand by students, faculty, general public, and/or business
2. Estimate the duration of demand (long/short term)
3. State the reasons that other units are not able to meet the demand

Humans have always been besieged by infectious diseases, and they are currently the third leading cause of death in the United States. In recent history, one can point to the 1920 influenza pandemic, the plague/black death pandemic of the 1300s, and even the current day bird flu, H1N1 flu, and HIV global pandemic, as shaping the world in which we know it. In the early 1970s there was a prevailing optimism that infectious diseases had essentially been conquered due to the advent of various powerful antibiotics, vaccines and antiviral drugs. Many pharmaceutical companies and academic institutions abandoned new studies to treat and prevent infectious diseases. However, microbial pathogens are ever changing and ever adapting to our new treatments. We are once again confronted with the global threat of microbial pathogens. The recent identification of new pathogens and the dramatic of emergence of multiple antibiotic resistance variants are a clear indication that infectious diseases will remain a very significant health problem in the years to come. A central component of the worldwide effort to eliminate or thwart infectious diseases will rest in the training of scientists in the fields of microbial pathogenesis and immunity.
For these reasons as well as the continued growth of related programs on the Ohio State University campus, there is a dramatic demand by students at all levels for research in the laboratories of those studying microbial infection and immunity. Nearly 50% of the incoming IBGP students have an interest in the study of host-pathogen interactions or immunology. Numerous students contact our faculty on a weekly basis for potential research opportunities. Coursework in microbial infection and immunity has been created over the last few years, and these classes are populated by IBGP graduate students as well as students in Departments such as Microbiology, Veterinary Biosciences and Food Science. Undergraduate students have also participated. Class enrollment in these courses continues to increase. Thus, this new department will function as the hub of these studies, which are clearly in demand by our students. Our increased growth and growing reputation will result in even further student demand in the coming years.

Nearly daily in the newspaper, on the internet, or on television, stories are presented about the devastation of infectious diseases in humans. We see headlines concerning outbreaks of cholera or typhoid fever following natural disasters, multiple antibiotic resistant strains of tuberculosis, H1N1 and seasonal flu vaccination, and the unrelenting worldwide AIDS epidemic. These news agencies commonly request the opinion of experts at Ohio State concerning issues of microbial infection and immunity. Our department will house those experts.

As the scourge of infectious diseases has lasted nearly as long as written history, our progress toward eradicating these disease-causing entities has not met with overwhelming success. We continue to investigate these microbes and attempt to identify their Achilles’ heel, such that new drugs, therapies, or vaccines can be developed against them. Thus, our struggle with infectious diseases is not a short-term problem but clearly a long struggle that necessitates further experimentation and the training of new scientists.

Other than the CMIB which has brought together scientists from around this campus to study host-pathogen interactions and related areas of immunology, there is no strong, single entity devoted to the study of microbial infection and immunity. Such a department does not exist on this campus. The Department of Molecular Virology, Immunology and Medical Genetics in the COM has placed increasing emphasis on cancer biology and genetics. While the Department of Microbiology in the College of BMAPS possesses a few faculty members studying microbial host-pathogen interactions, the majority of those individuals were hired in joint collaborations between the Department of Microbiology and the Division of Infectious Diseases/Department of Internal Medicine. The proposed Department of MI&I, as the name implies, will be focused on microbes that affect human health and the subsequent immunological response of the host to these agents. While the CMIB has historically and continues to effectively collaborate and interact with faculty of the Department of Microbiology in BMAPS, the major research emphasis of that unit is evolutionarily distant bacteria (Archaea and Methanogens) and RNA biology. Thus, the differing interests of the two departments add to the diversity of microbiology research on the OSU campus.

In summary, there is no department on this campus that can meet the demand of the students with regard to teaching and research opportunities in microbe-host interactions and immunology, the general public with regard to information and knowledge of infectious
diseases, and the desire of faculty to be amongst colleagues striving toward similar goals of studying the various aspects of microbial infection and immunity.

Cost

1. Describe anticipated internal funding and external funding potential
   It is anticipated that internal funding will be received from the College of Medicine to establish the Department. Funding needs include: salary and benefits for new faculty and staff positions, recruitment and relocation costs per faculty hire, and new faculty start-up funds.
   External funding potential is great. In 2007, core CMIB faculty members had more than $13 million in active research funding and this grew to nearly $19 million in 2008. It is expected that most if not all of the current core CMIB faculty will move to the new Department of MI&I, bringing a successful funding record with them. The further addition of approximately 18 top academic researchers, both existing at OSU and new recruits, to the newly established department will only increase this research portfolio.

2. Compare cost of proposed unit with that of like institutions with similar academic units
   We have not been able to obtain reliable data for this question, although as outlined above, other departments of microbiology and immunology housed in medical schools have a comparable number of faculty and programs as those proposed in the Department of MI&I.

3. Evaluate cost of additional faculty that may be needed

   Faculty Need
   The Department will increase its number of faculty by seven in the first 5 years by hiring three assistant professors, three associate professors, and one full professor. Recruiting will begin immediately in Fiscal Year 2011 to hire the first associate professor for employment in Fiscal Year 2012. The seven hires anticipated years of employment:
   FY12  Associate Professor
   FY13  Associate Professor, Assistant Professor
   FY14  Full Professor, Assistant Professor
   FY15  Associate Professor, Assistant Professor
   All faculty will be appointed to 12-month faculty appointments that conform with COM policies and guidelines.
   Estimated cost: $1,360,683

   Recruitment and relocation costs of $20,000 per faculty hire are requested to cover the advertising, travel, hotel and hospitality costs incurred in bringing candidates to the OSU campus for interviews and in relocating the individuals hired.
   Estimated cost: $140,000

   Start-up funds to purchase equipment, supplies and hire research personnel or for any other research-related expense is requested for each new faculty hire in the amount of $400,000 for each assistant professor, $600,000 for each associate professor, and $800,000 for the full professor.
   Estimated cost: $3,800,000
Faculty Relocation

It is anticipated that 11 existing faculty will transfer to MI&I from other University departments and expenses will be incurred to relocate their offices and laboratories to the new space for MI&I.

Estimated cost: $50,000

4. State adequacy and availability of facilities as well as faculty

The CMIB has filled its allotted office and laboratory space for faculty on the 10th floor of the BRT. Thus, additional space is requested beginning in Fiscal Year 2011 for 11 faculty transferring from other University units and 5 new MI&I administrative staff. Over the following four years, an additional 7 offices and laboratory space will be needed for the new faculty hires. This is a total of 23 additional dedicated offices.

Approximately 40-60 additional research staff will be added over the 5 years of the plan, which will result in the need for additional shared office space (approximately 10 rooms).

Assignable laboratory research space needs for the 11 transferring faculty and the 7 new faculty equate to approximately 12,400 square feet (assuming contiguous space and open lab design with cores). If contiguous space is identified (preferred), the department will adhere to similar principles established in the CMIB, i.e. the development of core labs, sharing of core supplies, flexible lab space to allow for the scientific mission and group decisions regarding the purchase of core equipment. This has proven to be a highly efficient research space model.

For the purposes of this document, the following calculations were used, based on the BRT PI space profile:

11 transferring faculty
4 Full Professors, 1240 sq ft each 4960
4 Associate Professors, 620 sq ft each 2480
3 Assistant Professors, 310 sq ft each 930

7 new faculty
1 Full Professor, 1240 sq ft 1240
3 Associate Professors, 620 sq ft each 1860
3 Assistant Professors, 310 sq ft each 930

Additional shared space is also needed so that all Department personnel have adequate access to cold rooms, sterile/glass washing stations, lounge space, and meeting areas.

Other

1. Include information regarding the use of consultants or advisory committees in the development of the proposal, with copies of reports from such consultants or advisory committees

A subcommittee of current core CMIB faculty (to become departmental faculty) developed and reviewed the current vision of the new Department and this document. External feedback was solicited from leaders in the fields of microbiology and immunology (letters attached).
2. Propose a date for the unit to be effective December, 2010.
Budget Request
Department of Microbial Infection and Immunity (MI&I)
Updated 04/29/2010

Personnel Requests
Faculty
For the role and responsibility of Department Chair (as well as Director of the Medical Scientist Program), a salary increase of $147,089.20 plus benefits is requested for Dr. Larry S. Schlesinger. Dr. Schlesinger’s current Institutional Base Salary is $265,606.49 ($192,910.80 from OSU and $72,695.69 from OSUP). Once Department Chair, Dr. Schlesinger will no longer receive compensation from OSUP. The requested salary increase reflects the move of $72,695.69 from OSUP funding to OSU, as well as an additional $74,393.51 to reflect the career progression to Department Chair. Total salary will then be $340,000.
Total cost, FY11: $187,392 of continuing funds

The Department will increase its number of faculty by seven in the first 5 years by hiring three assistant professors, three associate professors, and one full professor. Recruiting will begin immediately in Fiscal Year 2011 to hire the first associate professor for employment in Fiscal Year 2012. The seven hires anticipated years of employment:
FY12 Associate Professor
FY13 Associate Professor, Assistant Professor
FY14 Full Professor, Assistant Professor
FY15 Associate Professor, Assistant Professor
All faculty will be appointed to 12-month faculty appointments that conform with COM policies and guidelines. On an individual basis, we will consider split appointments as makes sense and is our practice.
Total cost, FY12-FY15: $1,334,405 of continuing funds

Recruitment and relocation costs of $20,000 per new faculty hire are requested to cover the advertising, travel, hotel and hospitality costs incurred in bringing candidates to the OSU campus for interviews and in relocating the individuals hired.
Total cost, FY12-FY15: $140,000 of cash

Start-up funds to purchase equipment, supplies and hire research personnel or for any other research-related expense is requested for each new faculty hire in the amount of $400,000 for each assistant professor, $600,000 for each associate professor, and $800,000 for the full professor.
Total cost, FY12-FY15: $3,800,000 of cash

Staff
Department staffing needs:
1. Department Administrator (existing position), to manage and be accountable for all departmental activities, including strategic planning, space and facilities management, administration of total budgets, financial analysis, internal controls, data processing operations,
and human resources management. A salary increase is budgeted for the existing CMIB Administrator position to recognize the expanded responsibility of overseeing a much larger unit.

2. Grants Manager (new position), to perform pre and post award grant management: prepares grant submissions, monitors and administers grant budgets, reconciles and monitors awards, prepares grant activity reports, investigates funding opportunities.

3. Personnel Technician 1 (new position), to perform human resource activities: prepare and process job descriptions and postings, job data and additional pay entries, timekeeping, promotion & tenure activities.

4. Accountant 1 (new position), to perform fiscal activities: prepare and process travel, procurement entries, reconcile monthly statements, prepare fiscal reports.

5. Systems Specialist (new position), to serve as equipment coordinator and provide IT support: desktop support, webpage development/support, server maintenance.

6. Research Assistant 2 (new position), to perform scientific research specifically within BSL3 facilities as requested (floating among all investigators), calibrate BSL3 equipment, and perform scientific administration duties.

Total cost, FY11: $300,453 of continuing funds

**Operational Requests**

**Faculty Retention**

$125,000 is requested in FY13 and FY15 to enable the Department to retain faculty members by providing research assistance, laboratory equipment, and/or travel funds.

Total cost in FY13-FY15: $250,000 of cash

**Current OSU Faculty Office/Lab Relocation**

It is anticipated that 11 existing faculty will transfer to MI&I from other University departments and expenses will be incurred to relocate their offices and laboratories to new and existing space for MI&I.

Total cost, FY11: $50,000 of cash

**General budget**

A general operational budget is required to fund office supplies, postage/mailing, telephones, research support (e.g. bridge funding, matching funds), minor laboratory and office equipment repair and maintenance, large laboratory equipment maintenance contracts, publicity/report printing, faculty and staff professional development (e.g. professional memberships, journal subscriptions, conference or training attendance), and student conference travel. Also included is a biweekly departmental seminar series, an expansion of the CMIB’s Host-Pathogen Seminar Series that brings 5 nationally and internationally known scholars to campus each year.

Total cost, FY11: $200,000 of continuing funds

**Seed Funds**

Funding is requested to provide department grants to accelerate research and data in order to submit strategic NIH P01 applications (4-5 investigators each). Awardees would receive $75,000 to use over a period of 2 years. Three themes will be the focus of funding based upon the significant expertise that exists and teams already in place. Themes:

1. Microbial biofilms and immunity (to be awarded in FY13)
2. Lipidomics and glycomics of infectious diseases (to be awarded in FY13)
3. Experimental therapeutics for tuberculosis (to be awarded in FY15)
Total cost, FY13-FY15: $225,000 of cash

Pilot Project Grants
Funding is requested to provide Pilot Project Grants to foster new, innovative ideas (early stage
development leading to R21, R01 grants). Awardees would receive $25,000 to use over a period
of 2 years. The research will focus on 3 target areas:
1. Discovery of molecular targets for infectious disease diagnostics, therapeutics, or vaccines,
2. Drug discoveries for infectious diseases,
3. Host susceptibility for infectious diseases.
An internal competition would occur and one award would be made in each year (FY12-FY14).
Total cost, FY12-FY14: $75,000 of cash

Equipment
Twelve new desktop/laptop computers and printers at $2500 for each set will be purchased for
new faculty and staff (five in FY11, one in FY12, two in FY13, two in FY14, and two in FY15),
and one network/website server at $5000 will be purchased in FY11.
Total cost, FY11-FY15: $35,000 of cash

***Although it is expected that a majority of the financial resources now held by the Center for
Microbial Interface Biology (CMIB) will transfer to the Department, the CMIB will continue to
operate as a University-approved Center in the Office of Health Sciences, using its current
Organizational number and maintaining a unique budget. CMIB financial resources include
$270,220 of permanent funding (FY11 Projected PBA Allocation per 04/21/2010 email from R.
Wachtel), $600,000 current annual cash commitment from OHS (08/24/09 letter), and all
existing cash balances.

It is requested that $450,000 of the CMIB’s $600,000 current annual cash commitment from
OHS (08/24/09 letter) be converted to permanent funding in FY11 as it is used for the salary and
benefit costs of permanent personnel, existing general operational costs, and the research
program of Dr. Schlesinger.
<table>
<thead>
<tr>
<th>Personnel</th>
<th>FY10</th>
<th>FY11</th>
<th>FY12</th>
<th>FY13</th>
<th>FY14</th>
<th>FY15</th>
<th>* = cash</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Chair, Increase</td>
<td>187,392</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faculty 1 . Full</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faculty 2 . Assoc</td>
<td>184,422</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faculty 3 . Assoc</td>
<td></td>
<td>195,580</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faculty 4 . Assoc</td>
<td></td>
<td></td>
<td>219,961</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faculty 5 . Asst</td>
<td>142,924</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faculty 6 . Asst</td>
<td></td>
<td></td>
<td>151,579</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faculty 7 . Asst</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>160,740</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Staff</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Administrator, Increase</td>
<td>19,169</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personnel Technician 1</td>
<td>50,580</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accountant 1</td>
<td>96,200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Systems Specialist</td>
<td>52,880</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grants Manager</td>
<td>79,320</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BSL3 Research Assistant 2</td>
<td>42,304</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supplies &amp; Service</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operational budget</td>
<td>200,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current faculty lab relocations</td>
<td>50,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>Retention</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>125,000</td>
</tr>
<tr>
<td>Faculty recruitment (travel $5000, relocation $15000)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Faculty 1 . Full | | 20,000 | | | | | *
| Faculty 2 . Assoc | | 20,000 | | | | | *
| Faculty 3 . Assoc | | 20,000 | | | | | *
| Faculty 4 . Assoc | | 20,000 | | | | | *
| Faculty 5 . Asst | | 20,000 | | | | | *
| Faculty 6 . Asst | | 20,000 | | | | | *
| Faculty 7 . Asst | | 20,000 | | | | | *
| Start-up package | | | | | | |
| Faculty 1 . Full | | 800,000 | | | | | *
| Faculty 2 . Assoc | | 600,000 | | | | | *
| Faculty 3 . Assoc | | 600,000 | | | | | *
| Faculty 4 . Assoc | | 600,000 | | | | | *
| Faculty 5 . Asst | | 400,000 | | | | | *
| Faculty 6 . Asst | | 400,000 | | | | | *
| Faculty 7 . Asst | | 400,000 | | | | | *

<table>
<thead>
<tr>
<th>Equipment</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Computers, printers</td>
<td>12,500</td>
<td>2,500</td>
<td>5,000</td>
<td>5,000</td>
<td>5,000</td>
<td>*</td>
</tr>
<tr>
<td>Server</td>
<td>5,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Research</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed funds for P01s</td>
<td>150,000</td>
<td>75,000</td>
<td></td>
<td></td>
<td></td>
<td>*</td>
</tr>
<tr>
<td>Pilot Project Grants</td>
<td>25,000</td>
<td>25,000</td>
<td>25,000</td>
<td></td>
<td></td>
<td>*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dept of Microbial Infection &amp; Immunity</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW Permanent funding</td>
<td>0</td>
<td>687,845</td>
<td>184,422</td>
<td>463,503</td>
<td>430,779</td>
<td>505,701</td>
</tr>
<tr>
<td>Cumulative Permanent funding</td>
<td>0</td>
<td>687,845</td>
<td>872,267</td>
<td>1,335,770</td>
<td>1,766,549</td>
<td>2,272,250</td>
</tr>
<tr>
<td>One time cash</td>
<td>0</td>
<td>67,500</td>
<td>647,500</td>
<td>1,220,000</td>
<td>1,270,000</td>
<td>1,120,000</td>
</tr>
<tr>
<td>Total MMI</td>
<td>0</td>
<td>755,345</td>
<td>1,519,767</td>
<td>2,555,770</td>
<td>3,036,549</td>
<td>3,392,250</td>
</tr>
<tr>
<td>CMIB</td>
<td>269,778</td>
<td>270,220</td>
<td>270,220</td>
<td>270,220</td>
<td>270,220</td>
<td>1,620,878</td>
</tr>
<tr>
<td>Permanent funding</td>
<td>600,000</td>
<td>600,000</td>
<td>600,000</td>
<td>600,000</td>
<td>600,000</td>
<td>600,000</td>
</tr>
<tr>
<td>Current Cash commitment*</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td>2,400,000</td>
</tr>
<tr>
<td>Cash commitment to PBA</td>
<td>0</td>
<td>450,000</td>
<td>450,000</td>
<td>450,000</td>
<td>450,000</td>
<td>2,250,000</td>
</tr>
<tr>
<td>Cash commitment remains as cash</td>
<td>600,000</td>
<td>150,000</td>
<td>150,000</td>
<td>150,000</td>
<td>150,000</td>
<td>1,050,000</td>
</tr>
<tr>
<td>THEREFORE:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permanent funding</td>
<td>269,778</td>
<td>720,220</td>
<td>720,220</td>
<td>720,220</td>
<td>720,220</td>
<td>3,870,878</td>
</tr>
<tr>
<td>Ongoing Cash commitment</td>
<td>600,000</td>
<td>150,000</td>
<td>150,000</td>
<td>150,000</td>
<td>150,000</td>
<td>1,050,000</td>
</tr>
<tr>
<td>Total CMIB</td>
<td>869,778</td>
<td>870,220</td>
<td>870,220</td>
<td>870,220</td>
<td>720,220</td>
<td>4,920,878</td>
</tr>
<tr>
<td>TOTAL FUNDING through FY15</td>
<td>869,778</td>
<td>1,625,565</td>
<td>2,389,987</td>
<td>3,425,990</td>
<td>3,756,769</td>
<td>4,112,470</td>
</tr>
</tbody>
</table>

*Request to convert cash commitment to partial PBA:
Cash commitment to PBA: 0 450,000 450,000 450,000 450,000 2,250,000
Cash commitment remains as cash: 600,000 150,000 150,000 150,000 150,000 1,050,000

THEREFORE:
Permanen funding: 269,778 720,220 720,220 720,220 720,220 3,870,878
Ongoing Cash commitment: 600,000 150,000 150,000 150,000 150,000 1,050,000
Total CMIB: 869,778 870,220 870,220 870,220 720,220 4,920,878
TOTAL FUNDING through FY15: 869,778 1,625,565 2,389,987 3,425,990 3,756,769 4,112,470 16,180,557
Personnel Requests

Faculty

For the role and responsibility of Department Chair (as well as Director of the Medical Scientist Program), a salary increase of $147,089.20 plus benefits is requested for Dr. Larry S. Schlesinger. Dr. Schlesinger’s current Institutional Base Salary is $265,606.49 ($192,910.80 from OSU and $72,695.69 from OSUP). Once Department Chair, Dr. Schlesinger will no longer receive compensation from OSUP. The requested salary increase reflects the move of $72,695.69 from OSUP funding to OSU, as well as an additional $74,393.51 to reflect the career progression to Department Chair. Total salary will then be $340,000.

Total cost, FY11: $187,392 of continuing funds

The Department will increase its number of faculty by seven in the first 5 years by hiring three assistant professors, three associate professors, and one full professor. Recruiting will begin immediately in Fiscal Year 2011 to hire the first associate professor for employment in Fiscal Year 2012. The seven hires anticipated years of employment:

FY12  Associate Professor
FY13  Associate Professor, Assistant Professor
FY14  Full Professor, Assistant Professor
FY15  Associate Professor, Assistant Professor

All faculty will be appointed to 12-month faculty appointments that conform with COM policies and guidelines. On an individual basis, we will consider split appointments as makes sense and is our practice.

Total cost, FY12-FY15: $1,334,405 of continuing funds

Recruitment and relocation costs of $20,000 per new faculty hire are requested to cover the advertising, travel, hotel and hospitality costs incurred in bringing candidates to the OSU campus for interviews and in relocating the individuals hired.

Total cost, FY12-FY15: $140,000 of cash

Start-up funds to purchase equipment, supplies and hire research personnel or for any other research-related expense is requested for each new faculty hire in the amount of $400,000 for each assistant professor, $600,000 for each associate professor, and $800,000 for the full professor.

Total cost, FY12-FY15: $3,800,000 of cash

Staff

Department staffing needs:
1. Department Administrator (existing position), to manage and be accountable for all departmental activities, including strategic planning, space and facilities management, administration of total budgets, financial analysis, internal controls, data processing operations,
and human resources management. A salary increase is budgeted for the existing CMIB Administrator position to recognize the expanded responsibility of overseeing a much larger unit.

2. Grants Manager (new position), to perform pre and post award grant management: prepares grant submissions, monitors and administers grant budgets, reconciles and monitors awards, prepares grant activity reports, investigates funding opportunities.

3. Personnel Technician 1 (new position), to perform human resource activities: prepare and process job descriptions and postings, job data and additional pay entries, timekeeping, promotion & tenure activities.

4. Accountant 1 (new position), to perform fiscal activities: prepare and process travel, procurement entries, reconcile monthly statements, prepare fiscal reports.

5. Systems Specialist (new position), to serve as equipment coordinator and provide IT support: desktop support, webpage development/support, server maintenance.

6. Research Assistant 2 (new position), to perform scientific research specifically within BSL3 facilities as requested (floating among all investigators), calibrate BSL3 equipment, and perform scientific administration duties.

Total cost, FY11: $300,453 of continuing funds

**Operational Requests**

**Faculty Retention**

$125,000 is requested in FY13 and FY15 to enable the Department to retain faculty members by providing research assistance, laboratory equipment, and/or travel funds.

Total cost in FY13-FY15: $250,000 of cash

**Current OSU Faculty Office/Lab Relocation**

It is anticipated that 11 existing faculty will transfer to MI&I from other University departments and expenses will be incurred to relocate their offices and laboratories to new and existing space for MI&I.

Total cost, FY11: $50,000 of cash

**General budget**

A general operational budget is required to fund office supplies, postage/mailing, telephones, research support (e.g. bridge funding, matching funds), minor laboratory and office equipment repair and maintenance, large laboratory equipment maintenance contracts, publicity/report printing, faculty and staff professional development (e.g. professional memberships, journal subscriptions, conference or training attendance), and student conference travel. Also included is a biweekly departmental seminar series, an expansion of the CMIB’s Host-Pathogen Seminar Series that brings 5 nationally and internationally known scholars to campus each year.

Total cost, FY11: $200,000 of continuing funds

**Seed Funds**

Funding is requested to provide department grants to accelerate research and data in order to submit strategic NIH P01 applications (4-5 investigators each). Awardees would receive $75,000 to use over a period of 2 years. Three themes will be the focus of funding based upon the significant expertise that exists and teams already in place. Themes:

1. Microbial biofilms and immunity (to be awarded in FY13)
2. Lipidomics and glycomics of infectious diseases (to be awarded in FY13)
3. Experimental therapeutics for tuberculosis (to be awarded in FY15)
   Total cost, FY13-FY15: $225,000 of cash

Pilot Project Grants
Funding is requested to provide Pilot Project Grants to foster new, innovative ideas (early stage development leading to R21, R01 grants). Awardees would receive $25,000 to use over a period of 2 years. The research will focus on 3 target areas:
1. Discovery of molecular targets for infectious disease diagnostics, therapeutics, or vaccines,
2. Drug discoveries for infectious diseases,
3. Host susceptibility for infectious diseases.
An internal competition would occur and one award would be made in each year (FY12-FY14).
   Total cost, FY12-FY14: $75,000 of cash

Equipment
Twelve new desktop/laptop computers and printers at $2500 for each set will be purchased for new faculty and staff (five in FY11, one in FY12, two in FY13, two in FY14, and two in FY15), and one network/website server at $5000 will be purchased in FY11.
   Total cost, FY11-FY15: $35,000 of cash

***Although it is expected that a majority of the financial resources now held by the Center for Microbial Interface Biology (CMIB) will transfer to the Department, the CMIB will continue to operate as a University-approved Center in the Office of Health Sciences, using its current Organizational number and maintaining a unique budget. CMIB financial resources include $270,220 of permanent funding (FY11 Projected PBA Allocation per 04/21/2010 email from R. Wachtel), $600,000 current annual cash commitment from OHS (08/24/09 letter), and all existing cash balances.

It is requested that $450,000 of the CMIB’s $600,000 current annual cash commitment from OHS (08/24/09 letter) be converted to permanent funding in FY11 as it is used for the salary and benefit costs of permanent personnel, existing general operational costs, and the research program of Dr. Schlesinger.
Department of Microbial Infection and Immunity

### Personnel

**Faculty**
- Department Chair, Increase: 187,392
- Faculty 1 . Full: 279,209
- Faculty 2 . Assoc: 184,422
- Faculty 3 . Assoc: 195,580
- Faculty 4 . Assoc: 219,961
- Faculty 5 . Asst: 142,924
- Faculty 6 . Asst: 151,579
- Faculty 7 . Asst: 160,740

**Staff**
- Department Administrator, Increase: 19,169
- Personnel Technician: 50,580
- Accountant 1: 56,200
- Systems Specialist: 52,880
- Grants Manager: 79,320
- BSL3 Research Assistant 2: 42,304

### Supplies & Service

**Operational budget**
- Current faculty lab relocations: 50,000
- Retention: 125,000

**Faculty recruitment (travel $5000, relocation $15000)**
- Faculty 1 . Full: 20,000
- Faculty 2 . Assoc: 20,000
- Faculty 3 . Assoc: 20,000
- Faculty 4 . Assoc: 20,000
- Faculty 5 . Asst: 20,000
- Faculty 6 . Asst: 20,000
- Faculty 7 . Asst: 20,000

**Start-up package**
- Faculty 1 . Full: 800,000
- Faculty 2 . Assoc: 600,000
- Faculty 3 . Assoc: 600,000
- Faculty 4 . Assoc: 600,000
- Faculty 5 . Asst: 400,000
- Faculty 6 . Asst: 400,000
- Faculty 7 . Asst: 400,000

### Equipment

- Computers, printers: 12,500
- Server: 5,000

### Research

- Seed funds for P01s: 150,000
- Pilot Project Grants: 25,000

### Dept of Microbial Infection & Immunity

**NEW Permanent funding**
- 0 687,845 184,422 463,503 430,779 505,701

**Cumulative Permanent funding**
- 0 687,845 872,267 1,335,770 1,766,549 2,272,250 2,272,250

**One time cash**
- 0 67,500 647,500 1,220,000 1,270,000 1,120,000 4,325,000

**Total MMI**
- 0 755,345 1,519,767 2,555,770 3,036,549 3,392,250 11,259,679

**CMIB**

- Permanent funding: 269,778 270,220 270,220 270,220 270,220 270,220 1,620,878
- Current Cash commitment*: 600,000 600,000 600,000 600,000 0 0 2,400,000

**Request to convert cash commitment to partial PBA:**
- Cash commitment to PBA: 0 450,000 450,000 450,000 450,000 450,000 2,250,000
- Cash commitment remains as cash: 600,000 150,000 150,000 150,000 0 0 1,050,000

**THEREFORE:**

- Permanent funding: 269,778 720,220 720,220 720,220 720,220 720,220 3,870,878
- Ongoing Cash commitment: 800,000 150,000 150,000 150,000 0 0 1,050,000

**Total CMIB**
- 869,778 870,220 870,220 870,220 870,220 720,220 4,920,878

**TOTAL FUNDING through FY15**
- 869,778 1,625,565 2,389,987 3,425,990 3,756,769 4,112,470 16,180,557
Dear Larry,

Thank you for sending me information about the proposal for a new OSU Department of Microbial Infection and Immunity. I have now had a chance to read this document and have also read your most recent CMIB Annual Report. In addition, I am rather familiar with much of the microbiology and immunology community at OSU, having visited as a seminar speaker in 2005 and knowing some of the faculty for years before that (including Bob Munson, Lauren Bakaletz, Chad Rappleye, Mark Drew, Sheryl Justice, Dan Wozniak, John Gunn, and you).

My sense is that OSU needs a department exactly like what you have outlined in your proposal. There is clearly a large enough faculty and community to support a dedicated department covering both microbiology and immunology, and the faculty’s excellent reputation provides a base for further recruiting. I think a new department would complement the existing departments on campus while providing a strong new focus area for research and education.

I have to admit that I am not surprised that you are the driving force in the concept of creating this new department. The success of the CMIB is partly due to its close working relationship with the many microbiology/immunology faculty on campus, but mostly due to your vision. I think it is probably assumed by many people that you already are the Chair of a microbiology/immunology department, since your have accomplished so much in helping to attract and nurture scientists in that area. The fact that you have done this all across campus, regardless of each faculty member’s formal affiliation with a particular Division or Department or College or Institute, shows that you have thought broadly about integrating this infectious disease-related community. I was also very pleased to see how you have already
planned programs in graduate education, grantsmanship, and mentoring, all of which are important for the establishment of a successful and competitive new program.

In short, this is the right time to be proposing a Department structure like this, which will position OSU well for competing with the best microbiology and immunology programs in the nation. I think there is already a great deal of talent on campus, coupled with outstanding facilities that are appropriate for this research area. You seem to have the right perspective on all of this, coupled with the energy and determination to make it work.

Sincerely,

Bill Goldman

William E. Goldman, Ph.D.
Professor and Chair of Microbiology and Immunology
April 23, 2010

Larry S. Schlesinger, MD
Director, Division of Infectious Diseases
and Center for Microbial Interface Biology
College of Medicine
Ohio State University
Columbus, OH, 43210

Dear Larry,

I am writing to confirm my support for your plans to establish a new Department of Microbial Infection & Immunity (MI&I) in the School of Biomedical Science within the College of Medicine. The Department of Microbiology has consistently worked to build links with the Center for Microbial Interface Biology, and establishment of the new Department represents a logical next step for development of your unit.

I believe that the new unit will work synergistically with the Department of Microbiology to enhance the visibility of the field of Microbiology at OSU. Our joint efforts will improve our ability to recruit top scientists and students, and will facilitate expansion of collaborative research and educational programs, including training grants. We have a history of successful joint hiring and collaborative work, and I expect this to continue into the future. The development of the new Department of Microbial Infection & Immunity is certain to accelerate our collaborative efforts.

I wish you the best of luck with your proposal, and look forward to continuing to work with you toward our joint goals.

Sincerely,

Tina M. Henkin, Ph.D.
Professor and Chair
Department of Microbiology
Robert W. and Estelle S. Bingham
Professor of Biological Sciences
April 18, 1020

Larry S. Schlesinger, MD
Samuel Saslaw Professor of Medicine
Director, Division of Infectious Diseases and the Center for Microbial Interface Biology
The Ohio State University
Biomedical Research Tower
460W 12th ave, Rm 1004
Columbus, OH 43210

Dear Larry,

I am pleased to have the opportunity to provide my opinion regarding the need for the development of a Department of Microbial Infection & Immunity in the College of Medicine at The Ohio State University. I have read the documents provided to me and am aware of many of the important initiatives at your university. In reviewing these documents and OSU's web sites along with my personal knowledge of the robust scientific community at your institution, it is my opinion that the formation of this department represents a tremendous opportunity for OSU, and its absence is a void in your otherwise strong and nationally recognized College of Medicine.

The challenges associated with microbial infections in terms of diagnosis, treatment and prevention are greater than ever and the enormity of human death and suffering due to these microbes has been catalogued throughout history. New emerging pathogens and the growing spread of antimicrobial resistance among human infectious agents have maintained the importance of this scientific discipline. Consequently, essentially all top tier medical schools in the US have strong departments of microbiology and immunology to enhance discovery in these areas. Through your leadership and success in recruitment, OSU now has a wealth of talent among its faculty in these scientific disciplines. The ability to bring this group of scientists together into one outstanding department will pay huge dividends to your medical school in terms of scientific productivity, education and national stature. As the chair of a large microbiology department, I have witnessed first-hand the value of creating strong interdisciplinary scientific teams that are working at the cutting edge of discovery and application. The broad disciplines of microbiology and immunology are inherently popular among a range of trainees and I have no doubt that this will be the case for the new department at OSU.

I am enormously impressed with what you have accomplished at OSU in a relatively short period of time. This is a testament to your leadership and vision. In my opinion, the proposed development of a Department of Microbial Infection & Immunity is a vitally important and
necessary next step for OSU’s College of Medicine and the university, and I am completely supportive of the plan that has been laid out.

I wish you the best of luck with this major initiative and applaud your leadership of this effort. Please let me know if there is anything more I can do to help.

Best regards,

Jeff F. Miller
April 5, 2010

Larry S. Schlesinger, MD
Director, Division of Infectious Diseases
Professor of Molecular Virology, Immunology, Medical Genetics & Microbiology
Larry.Schlesinger@osumc.edu

Dear Dr. Schlesinger:

I am happy to provide an assessment of the need for a Department of Microbial Infection & Immunity (MI&I) at The Ohio State University.

According to the World Health Organization’s most recent data on the leading causes of death in member countries, infectious diseases (specifically AIDS, diarrheal diseases, tuberculosis, and lower respiratory infections) account for nearly 1 in 5 deaths worldwide. Despite spectacular advances in medicine, we are still left with infectious disease as this major cause of death. While treatments may be perceived to have improved, one must only look to the rising rates of antibiotic resistance in bacterial populations to shock us into new vigilance. Indeed, in some cases, physicians are now left with no useful tools to combat specific bacterial infections. We now know much more about mechanisms of immunity, however, we can’t seem to develop methods to bolster host defenses in combating these illnesses.

While universities are reassessing which disciplines to combine, reduce, or even eliminate, one can only look to these sobering data to realize that we must mount a focused effort to advance our knowledge in the field of microbial infections and host defense systems that combat these infections.

I had the pleasure of delivering a lecture at Ohio State just a few years ago. I was struck by two observations. The first was how many excellent scientists there were at the university who studied infectious diseases, molecular mechanisms of microbial pathogenesis, or host defense. The second, however, was the lack of central focus on this topic. Faculty were spread out among different buildings, different schools, different campuses, and different institutions (Children’s Hospital for example). Frequently, individuals were unaware of innovative work being conducted a few hundred feet away in another building.

It is simple to make the case for a more focused overarching departmental structure for this group of fine scientists and those yet to be recruited. This structure would not be for the purpose of building a silo, but for building synergies among this group of energetic scientists. From the outside looking in, there is little focus to these efforts, and the University would benefit tremendously from the creation of a Department of Microbial Infection & Immunity.

I hope that I have made a case for the creation of such a department. The outlined proposal is a compelling document that outlines the benefits of this proposed department. It is well poised to fill a gaping hole in an otherwise outstanding institution. If I can provide further assessments, please do not hesitate to contact me.

Sincerely yours,

Harry L.T. Mobley, Ph.D.
Frederick G. Novy Professor and Chair
April 9, 2010

Dr. Larry Schlesinger  
Infectious Diseases  
College of Medicine  
N1149 Doan Hall  
410 W 10th Avenue  
Columbus, OH 43210

Dear Dr. Schlesinger,

I want to express my excitement over the possibility of establishing a department of Microbial Infection and Immunity (MI&I) in the School of Biomedical Science, College of Medicine. As you know, our department (Veterinary Biosciences, College of Veterinary Medicine) has a strong infectious disease research orientation, with emphasis on microbial pathogenesis and the immunology of infectious disease. We are unique in our ability to readily develop and exploit diverse animal models, be that a rabbit or cat model of immunity to retroviral infections, a cotton rat model of measles virus infection, or a pig model of Helicobacter pylori-induced gastritis. This capability has promoted numerous collaborations between investigators in Veterinary Biosciences and the College of Medicine, and such collaborative efforts are the foundation upon which integrative programs such as the Center of Microbial Interface Biology (CMIB) and the Public Health Preparedness in Infectious Disease (PHPID) have been built - programs in which you have been instrumental. Establishing a department of Microbial Infection and Immunity in the College of Medicine would greatly facilitate growth of our collective research enterprise.

The most tangible benefit of the proposed department lay in the ability to coordinate development of complementary cores of faculty expertise through new hires, building upon existing strengths. Investigators of microbial pathogenesis require interactions with microbiologists in the same or related systems, as well as immunologists specializing in either innate or adaptive immunity, be that systemic or compartmental (e.g., mucosal). Building these groups within a single academic unit, and coordinating these efforts with
complementary programs within the university (e.g., the proposed MI&I and VBS), greatly enhances the synergy amongst research programs in a way that is highly conducive to the development of competitive program project grant applications, training grant applications, and graduate educational opportunities that include new coursework. The existence of these cores of expertise rapidly develops into a powerful recruiting tool for the best faculty, graduate students, post doctoral fellows, and research scientists.

I’m excited about the fact that you are taking the lead in this initiative. You clearly embrace programs that extend beyond college boundaries, evidenced by your role in the CMIB and in assuming an adjunct faculty position in our department, providing a rich educational opportunity for one of our graduate students (i.e., a K award funded graduate student). The latter may seem a minor role in the grand scheme, but it illustrates a philosophy that I embrace. Create synergy where possible, and even small investments can pay large dividends in the long run.

I look forward to the outcome of this endeavor and I will gladly contribute where possible.

Sincerely,

Mike Oglesbee DVM, PhD, DACVP
Professor and Chair
March 29, 2010

Larry S. Schlesinger, MD  
Director, Div. of Infectious Diseases and the  
Center for Microbial Interface Biology  
College of Medicine  
1149 Doan Hall  
410 W. 10th Avenue  
Campus

Dear Larry,

I am pleased to offer my full support to the creation of a new Department of Microbial Infection & Immunity (MI&I) to be housed in the School of Biomedical Science within the College of Medicine.

The new department has an exciting vision and its mission beautifully complements that of our wonderful Department of Microbiology in the College of Arts and Science. The Department of Microbiology has great strength in bioengineering new organisms which can be important sources of renewable bio based fuels, and in many ways leads our exemplary campus wide effort in RNA Biology. We agree that the field of microbial infection and immunity is best led by a new unit in the College of Medicine although Arts and Sciences and Medicine will continue to partner with joint faculty appointments, the PHPID TIE program and in multi investigator grant submissions. Thus, the formation of the new Department of Microbial Infection & Immunity will be good for both colleges and accelerate our collaborative efforts.

Best wishes with your proposal, it has my full support.

Sincerely,

Matthew S. Platz  
Distinguished University Professor of Chemistry  
Dean, Div. of Natural and Mathematical Sciences