



MEMORANDUM

To: Donna E. Shalala
President

From: Stephen Sapp
Chair, Faculty Senate

A handwritten signature in black ink that reads "Stephen Sapp".

Date: March 31, 2008

Subject: Faculty Senate Legislation #2007-39(B) –Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine

The Faculty Senate, at its March 26, 2008 meeting, voted unanimously to approve the Establishment of the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

The proposal is enclosed for your reference.

This legislation is now forwarded to you for your action.

SS/rh

enclosure

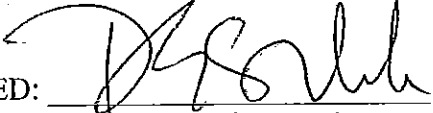
cc: Thomas LeBlanc, Executive Vice President and Provost
✓David J. Birnbach, Vice Provost for University Administration and Faculty Affairs
✓Jennifer McCafferty-Cepero, Assistant Dean for Research

[Please contact the Senate office to view this proposal.]

Faculty Senate
1252 Memorial Drive, 325 Ashe Admin. Bldg.
Coral Gables, Florida 33124
Phone: (305) 284-3721 • Fax: (305) 284-5515
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Faculty Senate Legislation #2007-39(B) –Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine

PRESIDENT’S RESPONSE

APPROVED:  DATE: 4/7/08
(President’s Signature)

OFFICE OR INDIVIDUAL TO IMPLEMENT: DEAN PASCAL GOLDSCHMIDT

EFFECTIVE DATE OF LEGISLATION: _____
(if other than June 1 next following)

NOT APPROVED AND REFERRED TO: _____

REMARKS (IF NOT APPROVED): _____



MEMORANDUM

To: Donna E. Shalala
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From: Stephen Sapp
Chair, Faculty Senate

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(if other than June 1 next following)

NOT APPROVED AND REFERRED TO: _____

REMARKS (IF NOT APPROVED): _____

**Proposal for the Establishment of the
Miami Institute for Human Genomics
at the University of Miami Miller School of Medicine**

This proposal seeks to formally establish the Miami Institute for Human Genomics at the University of Miami Miller School of Medicine, which will take its place among the nation's leading genetic and genomic research institutes. The institute will be called the "Miami Institute for Human Genomics" and will be abbreviated as "MIHG". MIHG consists of five integrated Centers, each of which is described in a separate proposal, but none of which are designed to exist in the absence of umbrella institute. Although MIHG initially is being proposed as a Miller School Institute, the long term plan is for MIHG to develop into a pan-institutional University-based institute. As cross-school collaborations and research activities grow, University level institute status will be sought according to the proper University procedures. MIHG welcomes members from schools and colleges across the University as well as from neighboring higher education institutions such as Florida Atlantic University and Florida International University.

1. BACKGROUND

In recent years, the fields of genetics and genomics have grown more rapidly than any other area of medicine, especially since the completion of The Human Genome Project in 2003. The fields extend far beyond traditionally recognized single-gene disorders such as Huntington Disease, Sickle Cell Anemia, and Cystic Fibrosis to include complex and common human diseases such as autism, Alzheimer and Parkinson diseases, heart disease, and cancer. Understanding the complicated interactions behind these multi-gene disorders as well as the interactions of these gene networks with non-genetic or environmental factors is the foundation for the creation and development of genomic medicine as a new and promising field with implications for the practice of medicine and the healthcare industry.

In order to be successful, modern genetic and genomics research must draw on the expertise of many in diverse fields including molecular biology, statistical genetics, genetic epidemiology, and computational science. Additionally, the high cost of state-of-the-art technologies and the requisite specialization required to operate them makes the shared use of equipment and knowledge crucial. Recent breakthroughs in genomics have been made possible by pooling resources, sharing information and equipment, and therefore by sharing the costs. The creation of MIHG supplies an infrastructure around which to coordinate the varied and state-of-the-art technologies and expertise required to perform leading edge genomics research.

Like the field of human genomics, the Miller School of Medicine is undergoing a period of dynamic expansion. In order to maintain momentum we have successfully recruited two of the world's leaders in genomic medicine, Drs. Margaret A. Pericak-Vance and Jeffery M. Vance. In this extraordinary period of growth both at the University and in the field, the establishment of the MIHG will position the University of Miami as the leader in genomics research in South Florida as well as nationally and internationally.

2. MISSION

The MIHG seeks to discover and explain the genetic influences on human health and to pioneer the application of this knowledge to the diagnosis, intervention, and prevention of disease, thus changing the practice of medicine and fulfilling the promise of the Human Genome Project for direct patient care.

The MIHG is committed to catalyzing research at the University of Miami that uncovers the genetic basis of complex diseases and the translation of laboratory findings to direct patient care. The MIHG will become a locus for the establishment and development of fruitful collaboration across many disciplines by bringing together and matching interests and expertise in an intentional and productive manner. The presence of this type of entity will amplify the pace of discovery and expand the breadth and width of the impact of these discoveries. These types of interdisciplinary collaboration will also result in an increase in high-impact publications, a greater number of investigators receiving extramural funding, and expanded visibility in the national and international research community for the University of Miami. Through the MIHG, the University will be able to take pride in being at the crossroads between fundamental research and clinical applications, such that knowledge transfers in both directions, for the ultimate benefit of human health.

3. MARKET ANALYSIS

The potential establishment of the MIHG at the University of Miami Miller School of Medicine needs to be examined with due consideration of our strengths and weaknesses, the opportunities that are currently open to us, and the challenges that we may face in the future.

3.1 Strengths

We are the oldest and most established medical school in South Florida, serving a population of over 7 million.

- We have a large group of clinicians and researchers who are experts in areas of clinical medicine where genomics is rapidly becoming important. This situation can pave the way for translational work.
- With the recruitment of Dr. Margaret A. Pericak-Vance, Dr. Jeffery M. Vance, and their colleagues, we are poised to have an unmatched genetics/genomics presence in South Florida.
- There are a number of ongoing studies and members of the faculty who have unique expertise who would benefit from and who would be assets to an entity such as is proposed. With access to resources and an institution around which to organize, the genomic expertise and research already present would grow and thrive.
- The Louis Calder Memorial Library has significant genetics/genomics journal subscriptions and book holdings.

3.2 Weaknesses

- There is no structure or an organization that fosters intramural collaboration and communication in genomics.
- There is no coordination of genomics resources, resulting in them being undershared and underutilized.

3.3 Opportunities

Under the leadership of Dean Pascal Goldschmidt a new vision for the Miller School of Medicine is being actualized. The Miller School research community is limited by not having a high profile presence in genomic research; however, past and ongoing recruitment of established and productive geneticists presents an ideal moment for the establishment of the MIHG. With a critical mass of human and technological resources, the MIHG would facilitate interdisciplinary collaborations that will accelerate the pace of genomic discovery in order to translate these discoveries into clinical care.

3.4 Challenges

Once the MIHG has been formally established, we face the challenge of staying current with this fast changing field. To do this, we need to continue to recruit the best individuals in the field, and offer unique collaborative opportunities.

In addition, we need to ensure that we continue to utilize the universality of genetics in medicine as a nucleus for collaboration among various investigators and disciplines, both within the University and beyond.

4. ORGANIZATION AND MEMBERSHIP

The proposed MIHG will be directed by Dr. Margaret A. Pericak-Vance. The MIHG Director will report to the Dean of the Medical School. The MIHG consists of five centers each headed by a Center director; two MIHG resources each headed by an associate director, and a number of programs for which each program has a program leader and for which there will be an Associate Director to oversee all programs. The proposed MIHG Centers are described in separate Center documents. The MIHG organization is explained in more detail below.

4.1 MIHG Centers:

The proposed MIHG will contain 5 centers. The Centers are the core components of the MIHG and are not designed to exist apart from the MIHG. Centers are focused on areas of specific expertise or functions within human genetics and genomics and house state-of-the-art technologies and the personnel to support them. In addition, Centers house the various shared (core) resources available to the University of Miami research community, guiding the implementation, development, and execution of genomics research at the University of Miami. Each Center is headed by a Center Director and includes a number

of core facilities that are administered and developed within the mission and vision of MIHG. Each Center is described in a separate Center proposal.

4.2 MIHG Resources:

MIHG resources are defined as resources available to MIHG in support of the multiple centers and programs. They provide expertise to facilitate the functioning of all centers. Resources are led by Associate Directors. Associate Directors are selected and reviewed by the MIHG Director.

Informatics

The mission of the Informatics resource is to facilitate genomic research and training at University of Miami by providing state-of-the-art computational, data manipulation, and data storage tools to MIHG faculty, staff, and students. This includes the Clinical and Laboratory Database which consists of three interrelated databases, custom user interfaces created for each, and ancillary programs that manipulate data for storage and analysis.

Communications, Compliance, and Community Outreach

The Communication, Compliance, and Community Outreach resource is responsible for developing, overseeing and managing IRB protocols, monitoring ethical and legal topics concerning genetic research and maintaining HIPAA compliance. They will oversee all communication to those outside of the MIHG. This will include, but is not limited to, brochures, website material, newsletters, and other promotional material. This group is also responsible for overseeing the educational efforts of the MIHG such as community outreach education in genomic medicine and genomic research, invited expert speaking engagements, and education for clinicians and other interested members of the University of Miami research community.

4.3 Programs

The proposed MIHG will house a series of research Programs designed to be interdisciplinary, interactive, and proactive. The objective of these Programs is to foster new initiatives in a designated research area, bringing those with similar interest from all campuses of the University of Miami with the expectation that external funding will be obtained. Programs are organized by a common disease or disorder or grouping of disease or disorders. The overall goals of each Program are:

- a) to increase awareness in the Program area,
- b) to facilitate new and renewed projects and funding for the Program area, and
- c) to cultivate near- and far-reaching collaborations that would promote and enhance the mission and vision of MIHG.

Program development will be overseen by an Associate Director of Programs who will be a primary member of MIHG and appointed by the MIHG Executive committee. Each

program will be headed by a Program Leader who is a primary or associate MIHG member with expertise in the Program area. Program leaders will be expected to assess the overall needs of the program and define specific areas which champion the expertise of the University research community. Research undertaken within each program is expected to make use of the facilities and resources administered by the Centers and Cores as detailed above. Below are a number of examples of program areas currently in progress:

PROGRAM
Genetics of Childhood and Developmental Diseases
Cardiovascular Genetics
Cancer Genetics
Genetics of Aging
Infectious Disease and Host Defense
Neurogenetics
Mitochondrial Genetics
Genetics of Diabetes and Related Disease
Psychiatric Genetics
Ophthalmologic Genetics
Women's Health Genomics
Pharmacogenomics
Genetics of Deafness
International Health Genomics
Autism Spectrum Disorders

4.4 Executive Committee

The MIHG Executive Committee's members are MIHG Center Directors, MIHG Resource Associate Directors, and the MIHG Director of Finance and Administration. The MIHG Director will chair the Executive Committee. The Executive Committee appoints Program Leaders, reviews and approves applications for Institute membership, and serves in an advisory capacity to the Director.

4.5 Membership in MIHG

Membership in MIHG is open to all University of Miami faculty members and to faculty members of affiliated institutions in South Florida according to the criteria listed below. All faculty members must have an appointment in an academic department. Membership categories are independent of academic rank.

New members will attend a formal orientation process that includes information on the structure of the MIHG as well as the benefits and responsibilities of membership. While it is anticipated that most MIHG members will be affiliated with one or more MIHG Centers based on their interest and expertise, Center affiliation is not a requirement of MIHG membership.

Overall criteria for membership

1. Demonstrated research in human genetics or genomics:
 - PI or Co-PI on active or proposed peer-reviewed or non-peer-reviewed funding in research with human genetic or genomic relevance
 - Human genetics- or genomics-focused publications
2. Agreement to fulfill the responsibilities of membership
3. Initial membership appointments will be for three years and will be contingent upon successful completion of an annual review process.

Application and Selection Process

To apply for membership, an interested faculty member must submit the following information to the MIHG Executive Committee.

- Completed MIHG Membership Application form (including description of research interest and statement of genetics or genomics research focus)
- Current CV and NIH Biosketch
- Current research funding information

This information is then reviewed by the MIHG Executive Committee, chaired by the MIHG Director. Membership is awarded for an initial period of five years. The Committee will meet yearly to review the entire MIHG membership roster, to make sure that it reflects the mission of the MIHG.

Benefits of Membership Proposal:

1. Eligibility to have access to shared resources at a subsidized rate.
2. Eligibility to receive developmental funding for innovative ideas.
3. Administrative support for submission of genetics- and genomics-related grants and contracts.

Responsibilities of Membership

All MIHG members are expected to contribute to the mission and growth of the MIHG through support of MIHG activities. The responsibilities of members include:

1. Willingness to work collaboratively with other scientists and clinical researchers on problems related to human genetics and genomics.
2. Active participation in activities including research programs and disease oriented working groups.
3. Attendance at scheduled functions of the (e.g. Invited speakers, scientific meetings)
4. Active participation in the education and visibility raising efforts, including appropriate symposia and community education.
5. Where applicable, willingness to provide mentoring to junior faculty and other members.

6. All members will be responsible to provide information updates as required, and must be willing to share this information for the purpose of reporting requirements.

Categories of Membership

There are three categories of membership: primary, associate, and affiliate.

Primary members reside and perform research in MIHG space. Executive committee members will be drawn from the primary membership. A small number of primary members who will serve in key support positions or provide unique services to MIHG will not be aligned with a specific research program.

Associate members do not necessarily reside in MIHG space, but work in collaboration with primary members or actively utilize core resources of the MIHG.

Affiliated members are non-UM investigators with an appointment at an accredited academic institution, but work in collaboration with primary members or actively utilize core resources of the MIHG.

Member Review

The Executive committee will also serve as the membership committee and will meet yearly for a thorough review of the entire membership roster. Members will be formally reviewed every five years for continued membership in the MIHG. Each member is discussed on the basis of evidence for:

1. Demonstrated collaborative research efforts.
 - Publications with other MIHG members.
 - Service as a PI or Co-investigator on grant/grant proposal(s) with other members.
 - Service as a PI or Co-investigator on clinical protocol with other members.
 - Participation as a mentor to more junior members.
2. Participation at the MIHG.
 - Attendance at the annual MIHG research retreat.
 - Participation in MIHG committees, special initiatives and meetings.
 - Participation in MIHG education efforts.
3. Demonstrated use of MIHG shared resources.

Members not meeting these criteria are counseled. Membership is withdrawn if progress is not demonstrated in the 12 month period following counseling.

Appeals Process

Individuals who are denied membership or whose membership is rescinded will be able to avail themselves of an official appeals process. These individuals must submit their appeal in writing to the MIHG Director. The MIHG Director may grant an appeal. If the MIHG Director wishes to sustain the decision of the executive committee and deny the appeal, he or she must forward the request for an appeal to the Dean of the Miller School of Medicine for review. Denial of an appeal must be approved by the Dean.

4.6 Advisory Board

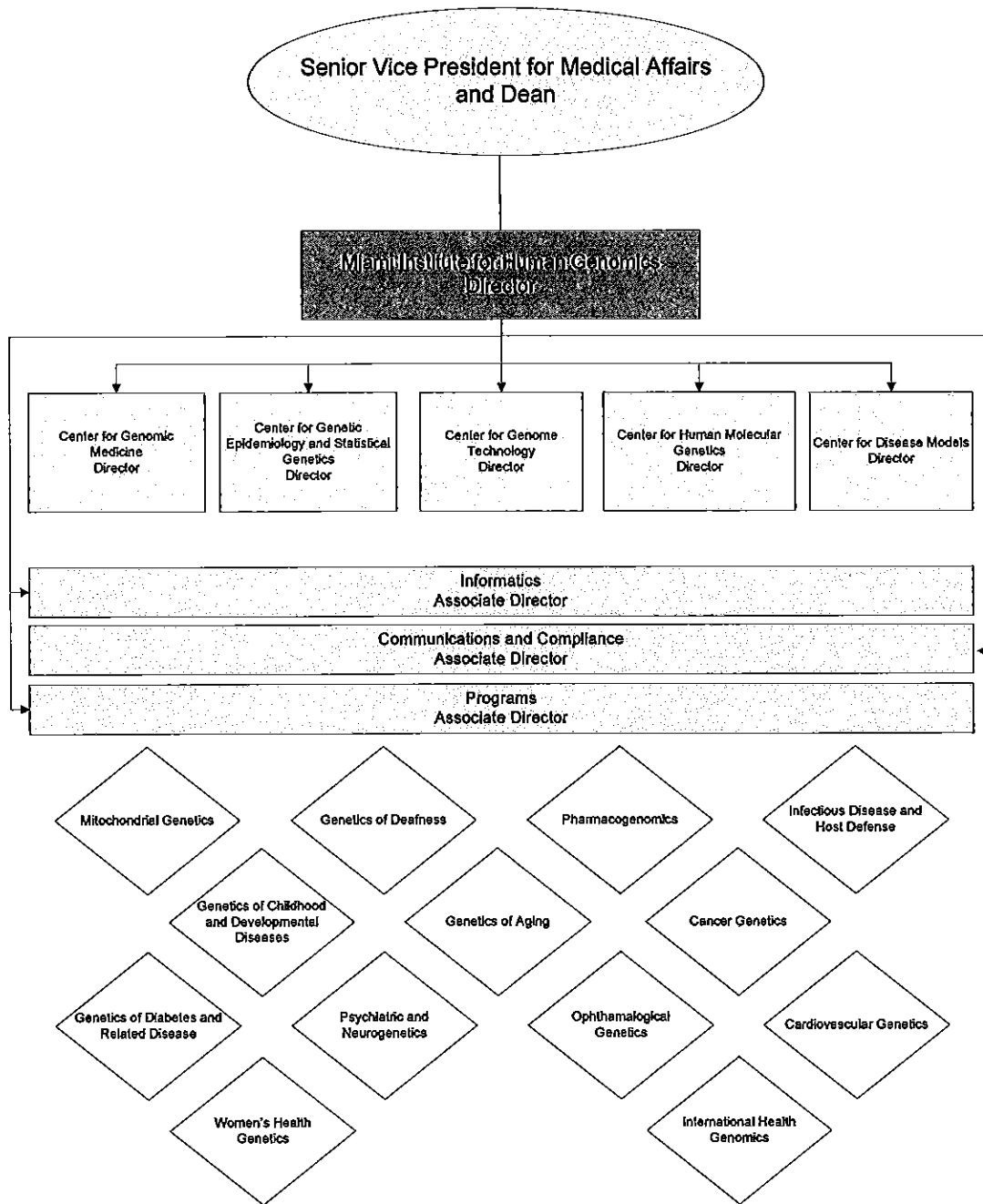
The MIHG Advisory Board will provide counsel concerning MIHG plans and initiatives and help the Director identify means and paths to achieve the mission of MIHG. They will meet at minimum annually to provide feedback and consultation to the MIHG Director regarding MIHG's progress and future plans including development and strategic planning.

The MIHG Advisory Board may be comprised of University of Miami faculty and community-at-large members selected by the MIHG director in consultation with the Dean of the Miller School of Medicine and appointees designated by the governor of the state of Florida in compliance with the terms of the economic development contract with the state of Florida; at least one member will be on the board of the Dr. John T. Macdonald Foundation. Other Miller School of Medicine or University leaders will be invited on an as needed basis by the MIHG director or the MIHG executive committee.

4.7 Space

The research activities of the MIHG require well equipped lab and administrative space. Initially research will be conducted in space at South Campus and the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building at its completion in 2008.

4.8 MIHG Organizational Chart



5. FUNDING SOURCES AND PROJECTIONS

The MIHG is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by an economic development contract with the state of Florida. These funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers, Programs, and Institute resources described above. In addition, the initial primary members have brought approximately 13.5 million in sponsored research dollars (\$10 million in direct costs and 3.5 million in indirect costs) for the current fiscal year (FY2008). All members are expected to seek external funding for their research; thus there are high expectations for significant growth in sponsored funding.

Year	UM	Sponsored	Gift
2007	24,409	3,485	73
2008	16,497	10,804	727
2009	16,394	15,126	880
2010	11,798	21,176	1,312
2011	11,150	27,529	1,613
Total	80,248	78,119	4,605

All amounts are in '000s

Appendix A. Biographical Information for proposed Director

Margaret A. Pericak-Vance, Ph.D. Director of the Miami Institute for Humans Genomics, Dr. Pericak-Vance is a founding fellow of the American College of Medical Genetics and a board-certified PhD medical geneticist. Dr. Pericak-Vance is a global leader in the genetics of common diseases. She excels at the integration of genomic and statistical technologies and their application to diseases of public health importance in general, and to neurologic diseases in particular. Her more than 400 peer-reviewed papers demonstrate outstanding productivity and establish important milestones in diseases that include tuberous sclerosis, the muscular dystrophies, amyotrophic lateral sclerosis (ALS), age-related macular degeneration (AMD), multiple sclerosis (MS), autism, and Alzheimer disease (AD).

**Proposal for the Establishment of the
Center for Genomic Medicine
at the University of Miami Miller School of Medicine**

1. BACKGROUND

This proposal seeks to formally establish a Center for Genome Medicine (CGM). The CGM will be a component of the proposed Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CGM is one.

2. MISSION

The proposed center will house the MIHG biorepository, which is an important resource for all genetic and genomic studies. The primary purpose of the CGM is to translate genetic findings into medical practices in order to improve healthcare by innovating methods for early and accurate diagnosis as well as personalized and targeted treatments. The CGM will provide expertise in patient ascertainment, pharmacogenomics, genomic medicine, and translational genomics.

3. MARKET ANALYSIS

The potential establishment of the CGM within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The CGM will be led by a Director that reports to and is reviewed by the MIHG Director. The CGM consists of three integrated sections and one core resource. The Biorepository is one of the major core areas serving the MIHG and the University. It will store biological samples ranging from blood to tissue and fluids. A dedicated team of individuals will work strictly in the bank. Significant expertise in informatics and sample handling has been accumulated in the current personnel, and this is one of the strengths of the repository. It will provide samples and DNA extraction for all of the MIHG research studies, and many of those within the Medical Center.

The sections and core are:

- **Section of Pharmacogenetics**
- **Section of Family and Patient Ascertainment**
- **Section of Translational Genomics**
- **Biorepository Core**

Membership

Members of the MIHG may affiliate with the CGM based on their interests and expertise. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its component Centers require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CGM is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by an economic development contract with the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CGM is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

**Proposal for the Establishment of the
Center for Genome Technology
at the University of Miami Miller School of Medicine**

1. BACKGROUND

This proposal seeks to formally establish a Center for Genome Technology (CGT). The CGT will be a component of the proposed Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CGT is one.

2. MISSION

The proposed Center will provide an interdisciplinary home for research related to the discovery of human disease genes. The Center will house state-of-the-art laboratory technology and personnel with expertise in genomic technologies.

3. MARKET ANALYSIS

The potential establishment of the CGT within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The CGT will be led by a Director. The CGT Director will report to and be reviewed by the MIHG Director. The CGT will employ personnel with expertise spanning genomic, proteomic and metabolomic methods and technologies. The CGT will provide expertise and technology support to help establish new research collaborations within the Miller School and the University. Core resources available through the CGT are:

- **Genotyping Core**
- **Sequencing/Variation Detection (SVD) Core**
- **Array Technology Core**
- **Proteomics/Metabolomics Core**
- **Technology Development Core**

Membership

Members of the MIHG may affiliate with the CGT based on their interests and expertise. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its component Centers require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CGT is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by an economic development contract with the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CGT is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

**Proposal for the Establishment of the
Center for Genetic Epidemiology and Statistical Genetics
at the University of Miami Miller School of Medicine**

1. BACKGROUND

This proposal seeks to formally establish a Center for Genetic Epidemiology and Statistical Genetics (CGESG). The CGESG will be part of the Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CGESG is one.

2. MISSION

The proposed center will focus on interdisciplinary research in genetic epidemiology and statistical genetics as they relate to human disease. The CGESG will provide expertise and state-of-the-art analytic methodology to discover human disease genes.

3. MARKET ANALYSIS

The potential establishment of the CGESG within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The CGESG will be led by a Director who will report to and be reviewed by the MIHG Director. The CGESG consists of 3 sections each headed by a section leader.

- **Section of Genetic Epidemiology**
- **Section of Statistical Programming**
- **Section of Applied Analysis**

Membership

Members of the MIHG may affiliate with the CGESG based on their interests and expertise. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its core components require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CGESG is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by an economic development contract with the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CGESG is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

**Proposal for the Establishment of the
Center for Human Molecular Genomics
at the University of Miami Miller School of Medicine**

1. BACKGROUND

This proposal seeks to formally establish a Center for Human Molecular Genomics (CHMG). The CHMG will be a component of the proposed Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CHMG is one.

2. MISSION

The proposed Center will develop a world-class research program for the discovery and characterization of human disease genes utilizing innovative molecular genetic methods. In the study of disease genes, evidence to support the identification of a disease gene and information about a gene's biological mechanisms and therefore its potential role in disease etiology is crucial. The proposed Center will provide expertise in functional and regulatory genomics as well as in epigenetics.

3. MARKET ANALYSIS

The potential establishment of the CHMG within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The CHMG will be led by a Director. The CHMG Director will report to and be reviewed by the MIHG Director. The CHMG will provide state-of-the-art molecular genetic knowledge and technology for the discovery and molecular characterization of human disease genes. The CHMG will house the following core sections:

- **Section of Genomics**
- **Section of Regulatory Genetics**
- **Section of Epigenetics**

Membership

Members of the MIHG may affiliate with the CHMG based on their interests and expertise. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its component Centers require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research

Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CHMG is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by an economic development contract with the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CHMG is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

**Proposal for the Establishment of the
Center for Models of Human Disease
at the University of Miami Miller School of Medicine**

1. BACKGROUND

This proposal seeks to formally establish a Center for Models of Human Disease (CMHD). The CMHD will be a component of the proposed Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CMHD is one.

2. MISSION

The proposed Center will evaluate the biology of previously identified susceptibility genes through the construction of model organisms. These models can be used to identify disease mechanisms, and to create genetic and biology-based models that can be used as targets for therapeutic screening by the research community. By establishing a group of interacting individuals, each an expert in using a specific organism or technique for modeling studies, we will maximize the potential of each model and speed the study of these important biological variables.

3. MARKET ANALYSIS

The potential establishment of the CMHD within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The CMHD will be led by a Director who is an expert in model organisms. The CMHD Director will report to and be reviewed by the MIHG Director.

Membership

Members of the MIHG may affiliate with the CMHD based on their interests and expertise. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its component Centers require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CMHD is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by an economic

development contract with the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CMHD is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

MILLER
SCHOOL OF MEDICINE

Pascal J. Goldschmidt, M.D., FACC
*Senior Vice President for Medical Affairs and Dean
Chief Executive Officer, Miami Medicine*

Memorandum

To: Iris Barrios
Secretary of the Faculty Senate

From: Pascal G. Goldschmidt, M.D.
Senior Vice President for Medical Affairs and Dean

Date: November 19, 2007

Subject: Support for the Miami Institute for Human Genomics

PJG

This memo is to document my support for the University of Miami Faculty Senate to approve the creation of the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

The establishment of the MIHG represents a clear expansion of the Miller School and broader University efforts in the highly-interdisciplinary arena of human genomics. The MIHG is a critical piece of the research infrastructure – providing a framework around which to focus our recent recruiting efforts and existing strengths while efficiently providing top-flight shared resources in both expertise and technology. These are especially significant in human genomics research as the instrumentation and skills required for success come at a high cost and are in short supply. The Institute would provide a firm foundation as the Miller School of Medicine builds a world-class environment for human genomics research. Undoubtedly, the MIHG will catalyze fundamental discoveries that uncover the genetic basis of complex diseases and accelerate the translation of these laboratory findings to impact patient care across disciplines.

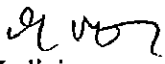
The creation of the MIHG is an important and timely addition to the Miller School of Medicine. The School has earmarked significant financial resources for the development of the genetics and genomics infrastructure and is fully committed to the success of the MIHG. I fully endorse its creation without hesitation or reservation and look forward to the Senate's approval of this vital institute.



MILLER
SCHOOL OF MEDICINE

Marc E. Lippman, M.D.
Kathleen & Stanley Glaser Professor
Chairman, Department of Medicine

To: Elena Flores
Secretary of the Faculty Senate

From: Marc E. Lippman, M.D. 
Chairman, Department of Medicine

Date: January 11, 2008

Subject: Miami Institute for Human Genomics (MIHG)

This memo is to express my enthusiasm for the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

This new institute will become an important component to research at the University of Miami and will foster and grow important genomics research. An institute of this size and scope is truly necessary if the University of Miami Miller School of Medicine is to embrace the rapidly growing field of human genomics and genomic medicine. Research Institutions such as ours will be able count themselves among the top organizations in the world because of the existence of this institute.

Faculty in the Department of Medicine enthusiastically support this proposal and look forward to forming collaborations with new institute. We feel strongly that genomic research possesses tremendous potential to improve human health and healthcare. We are thrilled to be a part of this future.


Cc: Pascal G. Goldschmidt, M.D.



MILLER
SCHOOL OF MEDICINE

Marc E. Lippman, M.D.
Kathleen & Stanley Glaser Professor
Chairman, Department of Medicine

To: Elena Flores
Secretary of the Faculty Senate

From: Marc E. Lippman 
Chairman, Department of Medicine

Date: January 11, 2008

Subject: Miami Institute for Human Genomics (MIHG)

This memo is to request support from the University of Miami Faculty Senate to approve the creation of the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

The proposed institute will form and foster collaborations among University of Miami researchers and physicians in a very important manner. By offering state-of-the-art technological resources to the scientific community in South Florida, the institute will launch successful studies of human diseases at a pace and breadth previously unmatched at the University of Miami. The creation of the MIHG would build an interdisciplinary and pan-institutional home for genomics research and the application of this research in a clinical setting. The result of the work performed under the umbrella of the institute will change medicine through the creation of improved diagnostic tool and targeted therapies for human disease. The new institute would position the Miller School of Medicine for rapid expansion and afford the opportunity to create a world-class environment for research in genomics and the application of the genomic medicine model.

I offer the full cooperation of the Department in supporting the success of this important institute. I fully endorse the creation of the MIHG and look forward to establishing strong and fruitful collaborations with the organization.






THE MIAMI PROJECT TO CURE PARALYSIS
AN INTERNATIONAL CENTER FOR SPINAL CORD INJURY RESEARCH

W. Dalton Dietrich, Ph.D.
Scientific Director

To: Iris Barrios
Secretary of the Faculty Senate

From: W. Dalton Dietrich, Ph.D. 

Date: January 14, 2008

Subject: Miami Institute for Human Genomics (MIHG)

This memo is to express my enthusiasm for the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

This new institute will become an important component to research at the University of Miami and will foster and grow important genomics research. An institute of this size and scope is truly necessary if the University of Miami Miller School of Medicine is to embrace the rapidly growing field of human genomics and genomic medicine. Research Institutions such as ours will be able count themselves among the top organizations in the world because of the existence of this institute.

Faculty at The Miami Project to Cure Paralysis enthusiastically support this proposal and look forward to forming collaborations with new institute. We feel strongly that genomic research possesses tremendous potential to improve human health and healthcare in patients with brain and spinal cord injuries. We are thrilled to be a part of this future.

Cc: Pascal G. Goldschmidt, M.D.

MILLER
SCHOOL OF MEDICINE
UNIVERSITY OF MIAMI

Lois Pope LIFE Center
Post Office Box 016960 (R-48) • Miami, Florida 33101
Location: 1095 NW 14th Terrace • Miami, Florida 33136
305-243-2297 • Fax: 305-243-6017 • www.themiamiproject.org

To: Elena Flores
Secretary of the Faculty Senate

From: Eckhard R. Podack M.D.
Chairman, Department of Microbiology & Immunology


Date: January 11, 2008

Subject: Support for the Miami Institute for Human Genomics (MIHG)

This memo is to request support from the University of Miami Faculty Senate to approve the creation of the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

The establishment of an Institute dedicated to fostering new and continued genetic and genomic research at the University of Miami is crucial to our continued success as a center for research in South Florida, in the nation, and beyond. This pan-institutional endeavor will include among its membership faculty from multiple departments and schools. Members will be able to access important technological and intellectual resources in order to plan and execute important genetic and genomic studies. These studies will reveal and explain the genetic causes for human disease and create new diagnostic and treatment options that will revolutionize healthcare.


The creation of this new institute would place the Miller School of Medicine among other world-class research universities in the rapidly growing field of genomics research. The new institute represents a timely next step in the University of Miami's vision for the future. I offer the full cooperation of the Department and fully support this proposal. I am anxious to see the great impact the creation of this Institute will have on the state of genomics research at the university and the many contributions we will be able to make to the expanding field of genomic research.


Eckhard R. Podack M.D.
Sylvester Distinguished Professor
of Microbiology, Immunology and Medicine
Chairman, Department of Microbiology & Immunology
Phone: 305-243-6884 • Fax: 305-243-8522
Post Office Box 916940 (R-130) • Miami, Florida 33161
Location: 1600 N.W. 18th Avenue, RM 99 9645 • Miami, Florida 33136

MILLER
SCHOOL OF MEDICINE
UNIVERSITY OF MIAMI

MILLER
SCHOOL OF MEDICINE

To: Elena Flores
Secretary of the Faculty Senate

From: Nicholas Tsinoremas, PhD 
Director, Center for Computational Science

Date: January 16, 2008

Subject: Support for the Miami Institute for Human Genomics (MIHG)

This memo is to request support from the University of Miami Faculty Senate to approve the creation of the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

I fully support the proposal for the establishment of an Institute dedicated to genetic and genomic research at the University of Miami. The Institutes commitment is to the discovery of genetic influences and the translation of such findings. This will undoubtedly place the University of Miami among highly recognized research universities and make the University a global influence in genetics.

I strongly endorse the creation of the Miami Institute for Human Genomics (MIHG) and look forward to forming dynamic collaborations with this organization.




MEMORANDUM

To: Iris Barrios
Secretary of the Faculty Senate

From: Kenneth W. Goodman, Ph.D.
Director, Bioethics Program
Associate Professor of Medicine

Date: February 17, 2008

Subject: Ethics Programs' Support for the Miami Institute for Human Genomics



I write to express my enthusiastic support for the creation of the Miami Institute for Human Genomics

Given (i) the fundamental importance and exciting medical and other scientific potential of translational research in genomics and genetics, (ii) the importance of this research for future translational research, (iii) the role of the MIHG as part of the dramatic transformation of the Miller School of Medicine, and (iv) plans to ensure that ethical, social and legal issues are to be given prominence in the new institute – it is clear that the MIHG will be poised to make major contributions to the School, the University and society.

Leaders of the planned institute, members of the Senate and all students and faculty are well aware that ethical issues loom large in genetics, genomics and bioinformatics. It is well known that a robust ethics process is essential to ensuring the harvest of the scientific and clinical fruits of such research and practice. Indeed, the Federal government has set aside funds from the Human Genome Project to ensure ethical issues are adequately addressed. Moreover, UM Ethics Programs have nontrivial expertise in these areas.

For these reasons, I offer my unalloyed support and that of the University of Miami Bioethics Program in the establishment of the institute and in its operations. We have an exciting opportunity to ensure the success of an ethically optimized new institute, and I very much look forward to contributing to it.

Please let me know if you or the Senators have any questions or want more information about the importance of ethics in stem cell research and the utility of our program's role in this exciting new institute.

cc: Pascal G. Goldschmidt, M.D., Senior Vice President for Medical Affairs and Dean,
UM Miller School of Medicine

MILLER

SCHOOL OF MEDICINE

José Szapocznik, Ph.D.
Chair

MEMORANDUM

TO: Elena Flores
Secretary of the Faculty Senate

FROM: José Szapocznik, Ph.D., Professor and Chair
Department of Epidemiology and Public Health
Associate Dean for Community Development

DATE: March 13, 2008

RE: Miami Institute for Human Genomics (MIHG)

By this means, I request support from the University of Miami Faculty Senate to approve the creation of the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

The proposed institute will form and foster collaborations among University of Miami researchers and physicians in a very important manner. By offering state-of-the-art technological resources to the scientific community in South Florida, the institute will launch successful studies of human diseases at a pace and breadth previously unmatched at the University of Miami. The creation of the MIHG would build an interdisciplinary and pan-institutional home for genomics research and the application of this research in a clinical setting. The result of the work performed under the umbrella of the institute will change medicine through the creation of improved diagnostic tool and targeted therapies for human disease. The new institute would position the Miller School of Medicine for rapid expansion and afford the opportunity to create a world-class environment for research in genomics and the application of the genomic medicine model.

In fact, a number of my department's faculty are already collaborating or planning to collaborate with the Institute. Speaking for my own program of research, I am now able to conduct studies that I was unable to do prior to the arrival of the genomics faculty that will comprise the Institute. Some of the new genomics faculty and I have already been exploring secondary faculty appointments in my department.

I offer the full cooperation of my Department in supporting the success of this important institute. I fully endorse the creation of the MIHG and look forward to establishing strong and fruitful collaborations with the organization.



Department of Epidemiology and Public Health • Office of the Chairman
Leonard M. Miller School of Medicine
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DIABETES
RESEARCH
INSTITUTE

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MIAMI, FL 33136
PHONE: 305 / 243-5376
FAX: 305 / 243-4404

MAILING ADDRESS:
P.O. BOX 016960 (R-134)
MIAMI, FL 33101

To: Elena Flores
Secretary of the Faculty Senate

From: Camillo Ricordi, M.D.
Scientific Director, Diabetes Research Institute

Date: March 13, 2008

Subject: Miami Institute for Human Genomics (MIHG)

A handwritten signature in black ink, appearing to read "Camillo Ricordi", enclosed within a hand-drawn oval.

This memo is to request support from the University of Miami Faculty Senate to approve the creation of the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

The proposed institute will form and foster collaborations among University of Miami researchers and physicians in a very important manner. By offering state-of-the-art technological resources to the scientific community in South Florida, the institute will launch successful studies of human diseases at a pace and breadth previously unmatched at the University of Miami. The creation of the MIHG would build an interdisciplinary and pan-institutional home for genomics research and the application of this research in a clinical setting. The result of the work performed under the umbrella of the institute will change medicine through the creation of improved diagnostic tool and targeted therapies for human disease. The new institute would position the Miller School of Medicine for rapid expansion and afford the opportunity to create a world-class environment for research in genomics and the application of the genomic medicine model.

I offer the full cooperation of the Diabetes Research Institute in supporting the success of this important institute. I fully endorse the creation of the MIHG and look forward to establishing strong and fruitful collaborations with the organization.

UNIVERSITY
OF MIAMI
LEONARD M. MILLER
SCHOOL OF MEDICINE



MILLER

SCHOOL OF MEDICINE

Karl L. Magleby, Ph.D.
Professor and Chairman
Department of Physiology & Biophysics

To: Elena Flores
Secretary of the Faculty Senate

From: Karl L. Magleby, Ph.D. *Karl L. Magleby*
Chairman, Department of Physiology and Biophysics

Date: March 18, 2008

Subject: Miami Institute for Human Genomics (MIHG)

This memo is to express my full support for the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

This new institute will become an important component for research at the University of Miami by fostering and growing important genomics research. An institute of this size and scope is truly necessary if the University of Miami Miller School of Medicine is to embrace the rapidly growing field of human genomics and genomic medicine. It is well established that the response to various treatments for disease typically has a genetic component. Consequently, medicine of the future will be tailored for the genetic makeup of various individuals, with will requires a strong genetics base. Such a base can move the Miller School of Medicine to the forefront of genetic guided therapy.

The faculty in the Department of Physiology and Biophysics fully appreciate the need for expansion of genetics at the Miller School of Medicine and look forward to forming productive collaborations with the new institute. .

cc: Pascal G. Goldschmidt, M.D.



Department of Physiology & Biophysics • Leonard M. Miller School of Medicine
Post Office Box 016430 (R-430) • Miami, Florida 33101
Location: Rosenstiel Medical Sciences Building, Room 5046, 1600 NW 10th Avenue • Miami, Florida 33136
305-243-6236 • Fax: 305-243-6898 • kmagleby@miami.edu

MILLER

SCHOOL OF MEDICINE

Steven E. Lipshultz, M.D.
Professor and Chairman of Pediatrics
Professor of Public Health and Epidemiology
Professor of Medicine

To: Elena Flores
Secretary of the Faculty Senate

From: Steven E. Lipshultz, MD
Chairman, Department of Pediatrics

Date: March 13, 2008

Subject: Miami Institute for Human Genomics (MIHG)



This memo is to request support from the University of Miami Faculty Senate to approve the creation of the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

The proposed institute will form and foster collaborations among University of Miami researchers and physicians in a very important manner. By offering state-of-the-art technological resources to the scientific community in South Florida, the institute will launch successful studies of human diseases at a pace and breadth previously unmatched at the University of Miami. The creation of the MIHG would build an interdisciplinary and pan-institutional home for genomics research and the application of this research in a clinical setting. The result of the work performed under the umbrella of the institute will change medicine through the creation of improved diagnostic tool and targeted therapies for human disease. The new institute would position the Miller School of Medicine for rapid expansion and afford the opportunity to create a world-class environment for research in genomics and the application of the genomic medicine model.

I offer the full cooperation of the Department of Pediatrics in supporting the success of this important institute. I fully endorse the creation of the MIHG and look forward to establishing strong and fruitful collaborations with the organization.



March 13, 2008

Elena Flores
Secretary of the Faculty Senate
325 ASHE Building (4634)
Coral Gables, Florida 33124

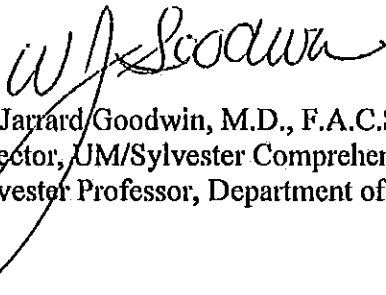
Re: Support for the Miami Institute for Human Genomics (MIHG)

Dear Colleagues

I write in strong support of the creation of the Miami Institute for Human Genomics at the University of Miami Miller School of Medicine. I personally believe deeply in this initiative. I have the greatest respect for the individual faculty and staff who make up the proposed institute. The members of the Sylvester Comprehensive Cancer Center have already developed collaborative initiatives at multiple levels, including our Oncogenomics Core resource, a monthly seminar series, a joint recruitment of leaders for human cancer genetics, genetic epidemiology of cancer, and pharmacogenomics.

Please do not hesitate to call on me if I could be of further assistance in the deliberations of the Faculty Senate.

Sincerely,



W. Jarrard Goodwin, M.D., F.A.C.S.
Director, UM/Sylvester Comprehensive Cancer Center
Sylvester Professor, Department of Otolaryngology



MILLER

SCHOOL OF MEDICINE


James D. Potter, Ph.D., FAHA
Professor and Chairman
Department of Molecular and Cellular Pharmacology

To: Elena Flores
Secretary of the Faculty Senate

From: James D. Potter, Ph.D., FAHA
Professor and Chairman
Department of Molecular and Cellular Pharmacology

Date: March 13, 2008

Subject: Miami Institute for Human Genomics (MIHG)



This memo is to request support from the University of Miami Faculty Senate to approve the creation of the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

Genomic medicine is a new and promising field with tremendous implications for the practice of medicine and the healthcare industry. Genomic research, however, must draw on the expertise of many in diverse fields in order to be successful. The proposed institute will form and foster collaborations among University of Miami researchers and physicians. Members will be able to access important technological and intellectual resources in order to plan and understand the genetic causes for numerous diseases. By offering state-of-the-art technological resources to the scientific community in South Florida, the new institute will launch successful studies of human diseases at a pace and breadth previously unmatched at the University of Miami. These studies will reveal and explain the genetic causes for human disease such as autism, Alzheimer, Parkinson's and Cardiac disease, to name a few, and create new diagnostic and treatment options that will revolutionize healthcare.

The creation of this new institute would place the Miller School of Medicine among other world-class research universities in the field of genomics research. The new institute represents a timely next step in the University of Miami's vision for the future. The faculty of the Department of Molecular and Cellular Pharmacology join me in enthusiastically supporting this proposal and we look forward to establishing strong and fruitful collaborations with the organization.

JDP:el

cc: Pascal G. Goldschmidt, M.D.



LEONARD M. MILLER SCHOOL OF MEDICINE
Post Office Box 016189 (R-189) • Miami, Florida 33101
Location: 1600 NW 10th Avenue, RMSB 6085 • Miami, Florida 33136
305-243-5874 • Fax: 305-324-6024 • jdpotter@miami.edu

March 26, 2008
Faculty Senate minutes

The meeting, held in the BankUnited Center Hurricane 100 Room, opened at 3:35 p.m.

CHAIR'S REMARKS

The First Vice Chair announced that she will be chairing today's meeting and highlighted some of the information in the Chair's remarks that were part of the agenda package.

PRESIDENT'S REMARKS

The President explained that she and the Provost were in the middle of the SACS on-site review visit. She reported on the new hospital and said that we are on-budget and are about to complete the permanent financing, which will be less than what was projected due to the market. She had warned the trustees that the rating agencies might downgrade us because of the debt load we would be incurring, but instead they noted our strong balance sheets and did not downgrade us.

We are struggling in Tallahassee because the Senate has cut FRAG money for each Florida student attending private colleges and universities. Our full-time lobbying staff is still fighting this legislation. We also expect some other programming cuts.

The Board of Trustees Finance Committee approved the Financial Plan that accompanies the Strategic Plan and recommended construction of the new Business School building in anticipation of its approval by the Master Planning and Construction Committee.

The Provost shared that the SACS on-site team is concluding its work on campus and is meeting in executive session now to formulate its findings and recommendations. He feels that the visit is going well and thanked everyone who participated.

He stated that the Miller School of Medicine portion of the Strategic Plan went to the Board's Medical Affairs Committee this morning for their approval and will then be forwarded to the Executive Committee. As the President mentioned, the Financial Plan as presented earlier to the Senate's Budget and Compensation Committee was approved by the Board Finance Committee, and the Administration is hopeful that it will be approved in May by the Board.

The Provost reported on the University's investments. For the last fiscal year, 2007, our return on the growth pool was 19.7% for the year. The benchmark we were attempting to beat was 17.7%. So far for fiscal year 2008 we are down 4.9%. Our benchmark is 4.3%. UM uses a three-year moving average that smoothes out discontinuities in the market. The President and Provost entertained questions from the floor.

APPROVAL OF TODAY'S AGENDA

The meeting agenda *passed unanimously*.

APPROVAL OF MINUTES OF FEBRUARY 27, 2008

The minutes of February 27, 2008, *passed unanimously.*

INTRODUCTION OF SHERI A. KEITZ, M.D. PH.D.

Dr. Keitz is the Associate Dean for Faculty Diversity and Development, Miller School of Medicine. She has been a physician for about 18 years and her goal is to do what she can to optimize the care of the patient and populations that we work with and to make an impact on the future. She thanked the Senate for its work in extending the tenure clock at the Miller School of Medicine.

MIAMI INSTITUTE FOR HUMAN GENOMICS [MIHG] AND COMPONENT CENTER PROPOSALS

[Please contact the Senate office to view the proposal.]

Jennifer McCafferty-Cepero presented the proposal with the suggestions requested and approved by the General Welfare Committee. She reviewed the proposal that creates an umbrella institution called the "Miami Institute for Human Genomics" with five separate component centers. The intent is for the centers to exist within the umbrella institute and not to exist in the absence of that institute as was recommended by the General Welfare Committee. The institute will reside initially at the Miller School of Medicine and will house disciplines that draw from a variety of departments at the Miller School. The letters of support for the institute come from all of the basic science chairs, a majority of the clinical departments that have research activities, and the major centers and institutes that already exist at Miller. The five-year projected plan was inadvertently missing from the proposal included with the materials so Dr. McCafferty-Cepero gave an oral summary. She then entertained questions from the floor.

A senator stated that he expects to see regular review of centers and institutes, and another senator asked about provisions to address the ethical aspects raised by advances in human genetics. Dr. McCafferty-Cepero responded that the institute is developing a program in conjunction with Dr. Ken Goodman of the University Ethics Programs.

A motion was made and seconded to approve the proposal. The motion was approved unanimously.

PROPOSAL FOR A DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE

[Please contact the Senate office to view the proposal.]

Huseyin Kocak presented the proposal for a Doctor of Philosophy in Computer Science. He pointed out that he had received additional letters of support as was requested by the Senate Chair. There is no additional funding needed. There were no questions.

A motion was made and seconded to approve the proposal. The motion was approved unanimously.

PROPOSAL FOR A NEW DEGREE PROGRAM, THE MASTER IN REAL ESTATE DEVELOPMENT AND URBANISM (MRED&U)

[Please contact the Senate office to view the proposal.]

Dean Elizabeth Plater-Zyberk was accompanied by Charles Bohl and presented the proposal. She discussed the aspects of design and the larger context of sustainable and livable communities, with concerns for environmental conservation, social equity, and economics. The University of Miami School of Architecture is recognized as the top school in the country for presenting the principles of the new urbanism. The Knight Program in Community Building has brought significant experience in the implementation of the principles, which have been built in and espoused by the faculty. This new degree is intended to be a mid-career program that will work with fellows of multiple disciplines and communities around the country under the sponsorship of the Knight Program. The comments of the General Welfare Committee regarding incorporation of ecological responsibility into the degree were endorsed by the school's faculty and wording was added to the proposal to reflect this commitment. The presenters entertained questions and comments from the floor.

A motion was made and seconded to approve the proposal. The motion was approved unanimously.

ACADEMIC STANDARDS COMMITTEE UNDERGRADUATE ADMISSION REPORT

[Please contact the Senate office to view the proposal.]

Dr. R. Stephen Cantrell, *ex officio* member of the committee, noted that the report is a continuation of reports in the past. He highlighted the comparisons of the university with other universities in the report and entertained questions from the floor. The Provost also reiterated some of the points of his presentation at the last Senate meeting. The Provost also entertained comments/questions from the floor.

A motion was made and seconded to accept the report. The motion was approved unanimously.

A motion was made and seconded to adopt the recommendation of the committee as the Senate's recommendation. The motion was approved unanimously.

MOVE OF MASTER OF PUBLIC ADMINISTRATION FROM THE SCHOOL OF BUSINESS TO THE COLLEGE OF ARTS AND SCIENCES

The First Vice Chair presented the proposal to move the Master of Public Administration from the School of Business to the College of Arts and Sciences.

A motion was made and seconded to approve the proposal. The motion was approved unanimously.

SENATE APPORTIONMENT

The First Vice Chair presented the General Welfare Committee's recommendation that the apportionment constant be kept at 10, increasing the number of senators to 50 by adding one senator for the Miller School of Medicine and one for the Frost School of Music.

A motion was made and seconded to approve the proposal. The motion was approved unanimously.

NOMINATING COMMITTEE

The Vice Chair pointed out that the Chair is willing to serve as chair again next year and thus has suggested that the Senate elect the Nominating Committee for next year's Senate officers. Norman Einspruch, Marvin Dawkins, Lenny Koniaris, Patricia Byers, and Lynne Fieber were nominated from the floor.

A motion was made and seconded to elect these individuals as the Nominating Committee. The motion was approved unanimously.

The remainder of the meeting was held in Executive Session to discuss the Outstanding Teaching Award recommendation.

The meeting adjourned at 6:09 p.m.

Respectfully Submitted,
Robyn Hardeman
Secretary of the Faculty Senate

FACULTY SENATE MEETING AGENDA
BankUnited Center, Hurricane 100 Room
March 26, 2008 – 3:30 p.m.

For all items except B4 [CLICK HERE](#)
For Item B4 [CLICK HERE](#)

A.	<u>Introductory Matters</u>	Approx. Time
A1.	# <u>Chair's remarks</u>	3:30
A2.	President's remarks	3:35
A3.	Approval of today's agenda	4:00
A4.	# <u>Approval of minutes of February 27, 2008</u>	4:05
A5.	Other announcements	4:10
B.	<u>General Matters</u>	
B1.	Introduction of Sheri A. Keitz, M.D., Ph.D., Associate dean for Faculty Diversity and Development, Miller School of Medicine, Chief, Medical Service, Miami VA Healthcare System – S. Hayes	4:15
B2.	* <u>Miami Institute for Human Genomics and Component Center Proposals – J. McCafferty-Cepero</u>	4:30
B3.	* Proposal for a Doctor of Philosophy in Computer Science – H. Kocak	4:45
B4.	* <u>Proposal for a New Degree Program, the Master in Real Estate Development and Urbanism (MRED&U) – E. Plater-Zyberk, C. Bohl</u>	5:10
B5.	* <u>Academic Standards Committee Undergraduate Admission Report – S. Cantrell</u>	5:35
B6.	# <u>Move of Master of Public Administration from the School of Business Administration to the College of Arts and Sciences – S. Hayes</u>	6:00
B7.	# <u>Senate Apportionment – S. Hayes</u>	6:05
B8.	Election of Nominating Committee – S. Hayes	6:15
C.	<u>Other Business</u>	
D.	<u>Executive Session</u>	
D1.	Selection of the Outstanding Teaching Award recipient	6:20
E.	<u>Adjournment</u>	

related material

* These materials are not for public viewing and will not be posted on the Faculty Senate website.

**Proposal for the Establishment of the
Miami Institute for Human Genomics
at the University of Miami Miller School of Medicine**

This proposal seeks to formally establish the Miami Institute for Human Genomics at the University of Miami Miller School of Medicine, which will take its place among the nation's leading genetic and genomic research institutes. The institute will be called the "Miami Institute for Human Genomics" and will be abbreviated as "MIHG". MIHG consists of five integrated Centers, each of which is described in a separate proposal, but none of which are designed to exist in the absence of umbrella institute. Although MIHG initially is being proposed as a Miller School Institute, the long term plan is for MIHG to develop into a pan-institutional University-based institute. As cross-school collaborations and research activities grow, University level institute status will be sought according to the proper University procedures. MIHG welcomes members from schools and colleges across the University as well as from neighboring higher education institutions such as Florida Atlantic University and Florida International University.

1. BACKGROUND

In recent years, the fields of genetics and genomics have grown more rapidly than any other area of medicine, especially since the completion of The Human Genome Project in 2003. The fields extend far beyond traditionally recognized single-gene disorders such as Huntington Disease, Sickle Cell Anemia, and Cystic Fibrosis to include complex and common human diseases such as autism, Alzheimer and Parkinson diseases, heart disease, and cancer. Understanding the complicated interactions behind these multi-gene disorders as well as the interactions of these gene networks with non-genetic or environmental factors is the foundation for the creation and development of genomic medicine as a new and promising field with implications for the practice of medicine and the healthcare industry.

In order to be successful, modern genetic and genomics research must draw on the expertise of many in diverse fields including molecular biology, statistical genetics, genetic epidemiology, and computational science. Additionally, the high cost of state-of-the-art technologies and the requisite specialization required to operate them makes the shared use of equipment and knowledge crucial. Recent breakthroughs in genomics have been made possible by pooling resources, sharing information and equipment, and therefore by sharing the costs. The creation of MIHG supplies an infrastructure around which to coordinate the varied and state-of-the-art technologies and expertise required to perform leading edge genomics research.

Like the field of human genomics, the Miller School of Medicine is undergoing a period of dynamic expansion. In order to maintain momentum we have successfully recruited two of the world's leaders in genomic medicine, Drs. Margaret A. Pericak-Vance and Jeffery M. Vance. In this extraordinary period of growth both at the University and in the field, the establishment of the MIHG will position the University of Miami as the leader in genomics research in South Florida as well as nationally and internationally.

2. MISSION

The MIHG seeks to discover and explain the genetic influences on human health and to pioneer the application of this knowledge to the diagnosis, intervention, and prevention of disease, thus changing the practice of medicine and fulfilling the promise of the Human Genome Project for direct patient care.

The MIHG is committed to catalyzing research at the University of Miami that uncovers the genetic basis of complex diseases and the translation of laboratory findings to direct patient care. The MIHG will become a locus for the establishment and development of fruitful collaboration across many disciplines by bringing together and matching interests and expertise in an intentional and productive manner. The presence of this type of entity will amplify the pace of discovery and expand the breadth and width of the impact of these discoveries. These types of interdisciplinary collaboration will also result in an increase in high-impact publications, a greater number of investigators receiving extramural funding, and expanded visibility in the national and international research community for the University of Miami. Through the MIHG, the University will be able to take pride in being at the crossroads between fundamental research and clinical applications, such that knowledge transfers in both directions, for the ultimate benefit of human health.

3. MARKET ANALYSIS

The potential establishment of the MIHG at the University of Miami Miller School of Medicine needs to be examined with due consideration of our strengths and weaknesses, the opportunities that are currently open to us, and the challenges that we may face in the future.

3.1 Strengths

We are the oldest and most established medical school in South Florida, serving a population of over 7 million.

- We have a large group of clinicians and researchers who are experts in areas of clinical medicine where genomics is rapidly becoming important. This situation can pave the way for translational work.
- With the recruitment of Dr. Margaret A. Pericak-Vance, Dr. Jeffery M. Vance, and their colleagues, we are poised to have an unmatched genetics/genomics presence in South Florida.
- There are a number of ongoing studies and members of the faculty who have unique expertise who would benefit from and who would be assets to an entity such as is proposed. With access to resources and an institution around which to organize, the genomic expertise and research already present would grow and thrive.
- The Louis Calder Memorial Library has significant genetics/genomics journal subscriptions and book holdings.

3.2 Weaknesses

- There is no structure or an organization that fosters intramural collaboration and communication in genomics.
- There is no coordination of genomics resources, resulting in them being undershared and underutilized.

3.3 Opportunities

Under the leadership of Dean Pascal Goldschmidt a new vision for the Miller School of Medicine is being actualized. The Miller School research community is limited by not having a high profile presence in genomic research; however, past and ongoing recruitment of established and productive geneticists presents an ideal moment for the establishment of the MIHG. With a critical mass of human and technological resources, the MIHG would facilitate interdisciplinary collaborations that will accelerate the pace of genomic discovery in order to translate these discoveries into clinical care.

3.4 Challenges

Once the MIHG has been formally established, we face the challenge of staying current with this fast changing field. To do this, we need to continue to recruit the best individuals in the field, and offer unique collaborative opportunities.

In addition, we need to ensure that we continue to utilize the universality of genetics in medicine as a nucleus for collaboration among various investigators and disciplines, both within the University and beyond.

4. ORGANIZATION AND MEMBERSHIP

The proposed MIHG will be directed by Dr. Margaret A. Pericak-Vance. The MIHG Director will report to the Dean of the Medical School. The MIHG consists of five centers each headed by a Center director; two MIHG resources each headed by an associate director, and a number of programs for which each program has a program leader and for which there will be an Associate Director to oversee all programs. The proposed MIHG Centers are described in separate Center documents. The MIHG organization is explained in more detail below.

4.1 MIHG Centers:

The proposed MIHG will contain 5 centers. The Centers are the core components of the MIHG and are not designed to exist apart from the MIHG. Centers are focused on areas of specific expertise or functions within human genetics and genomics and house state-of-the-art technologies and the personnel to support them. In addition, Centers house the various shared (core) resources available to the University of Miami research community, guiding the implementation, development, and execution of genomics research at the University of Miami. Each Center is headed by a Center Director and includes a number

of core facilities that are administered and developed within the mission and vision of MIHG. Each Center is described in a separate Center proposal.

4.2 MIHG Resources:

MIHG resources are defined as resources available to MIHG in support of the multiple centers and programs. They provide expertise to facilitate the functioning of all centers. Resources are led by Associate Directors. Associate Directors are selected and reviewed by the MIHG Director.

Informatics

The mission of the Informatics resource is to facilitate genomic research and training at University of Miami by providing state-of-the-art computational, data manipulation, and data storage tools to MIHG faculty, staff, and students. This includes the Clinical and Laboratory Database which consists of three interrelated databases, custom user interfaces created for each, and ancillary programs that manipulate data for storage and analysis.

Communications, Compliance, and Community Outreach

The Communication, Compliance, and Community Outreach resource is responsible for developing, overseeing and managing IRB protocols, monitoring ethical and legal topics concerning genetic research and maintaining HIPAA compliance. They will oversee all communication to those outside of the MIHG. This will include, but is not limited to, brochures, website material, newsletters, and other promotional material. This group is also responsible for overseeing the educational efforts of the MIHG such as community outreach education in genomic medicine and genomic research, invited expert speaking engagements, and education for clinicians and other interested members of the University of Miami research community.

4.3 Programs

The proposed MIHG will house a series of research Programs designed to be interdisciplinary, interactive, and proactive. The objective of these Programs is to foster new initiatives in a designated research area, bringing those with similar interest from all campuses of the University of Miami with the expectation that external funding will be obtained. Programs are organized by a common disease or disorder or grouping of disease or disorders. The overall goals of each Program are:

- a) to increase awareness in the Program area,
- b) to facilitate new and renewed projects and funding for the Program area, and
- c) to cultivate near- and far-reaching collaborations that would promote and enhance the mission and vision of MIHG.

Program development will be overseen by an Associate Director of Programs who will be a primary member of MIHG and appointed by the MIHG Executive committee. Each

program will be headed by a Program Leader who is a primary or associate MIHG member with expertise in the Program area. Program leaders will be expected to assess the overall needs of the program and define specific areas which champion the expertise of the University research community. Research undertaken within each program is expected to make use of the facilities and resources administered by the Centers and Cores as detailed above. Below are a number of examples of program areas currently in progress:

PROGRAM
Genetics of Childhood and Developmental Diseases
Cardiovascular Genetics
Cancer Genetics
Genetics of Aging
Infectious Disease and Host Defense
Neurogenetics
Mitochondrial Genetics
Genetics of Diabetes and Related Disease
Psychiatric Genetics
Ophthalmologic Genetics
Women's Health Genomics
Pharmacogenomics
Genetics of Deafness
International Health Genomics
Autism Spectrum Disorders

4.4 Executive Committee

The MIHG Executive Committee's members are MIHG Center Directors, MIHG Resource Associate Directors, and the MIHG Director of Finance and Administration. The MIHG Director will chair the Executive Committee. The Executive Committee appoints Program Leaders, reviews and approves applications for Institute membership, and serves in an advisory capacity to the Director.

4.5 Membership in MIHG

Membership in MIHG is open to all University of Miami faculty members and to faculty members of affiliated institutions in South Florida according to the criteria listed below. All faculty members must have an appointment in an academic department. Membership categories are independent of academic rank.

New members will attend a formal orientation process that includes information on the structure of the MIHG as well as the benefits and responsibilities of membership. While it is anticipated that most MIHG members will be affiliated with one or more MIHG Centers based on their interest and expertise, Center affiliation is not a requirement of MIHG membership.

Overall criteria for membership

1. Demonstrated research in human genetics or genomics:
 - PI or Co-PI on active or proposed peer-reviewed or non-peer-reviewed funding in research with human genetic or genomic relevance
 - Human genetics- or genomics-focused publications
2. Agreement to fulfill the responsibilities of membership
3. Initial membership appointments will be for three years and will be contingent upon successful completion of an annual review process.

Application and Selection Process

To apply for membership, an interested faculty member must submit the following information to the MIHG Executive Committee.

- Completed MIHG Membership Application form (including description of research interest and statement of genetics or genomics research focus)
- Current CV and NIH Biosketch
- Current research funding information

This information is then reviewed by the MIHG Executive Committee, chaired by the MIHG Director. Membership is awarded for an initial period of five years. The Committee will meet yearly to review the entire MIHG membership roster, to make sure that it reflects the mission of the MIHG.

Benefits of Membership Proposal:

1. Eligibility to have access to shared resources at a subsidized rate.
2. Eligibility to receive developmental funding for innovative ideas.
3. Administrative support for submission of genetics- and genomics-related grants and contracts.

Responsibilities of Membership

All MIHG members are expected to contribute to the mission and growth of the MIHG through support of MIHG activities. The responsibilities of members include:

1. Willingness to work collaboratively with other scientists and clinical researchers on problems related to human genetics and genomics.
2. Active participation in activities including research programs and disease oriented working groups.
3. Attendance at scheduled functions of the (e.g. Invited speakers, scientific meetings)
4. Active participation in the education and visibility raising efforts, including appropriate symposia and community education.
5. Where applicable, willingness to provide mentoring to junior faculty and other members.

6. All members will be responsible to provide information updates as required, and must be willing to share this information for the purpose of reporting requirements.

Categories of Membership

There are three categories of membership: primary, associate, and affiliate.

Primary members reside and perform research in MIHG space. Executive committee members will be drawn from the primary membership. A small number of primary members who will serve in key support positions or provide unique services to MIHG will not be aligned with a specific research program.

Associate members do not necessarily reside in MIHG space, but work in collaboration with primary members or actively utilize core resources of the MIHG.

Affiliated members are non-UM investigators with an appointment at an accredited academic institution, but work in collaboration with primary members or actively utilize core resources of the MIHG.

Member Review

The Executive committee will also serve as the membership committee and will meet yearly for a thorough review of the entire membership roster. Members will be formally reviewed every five years for continued membership in the MIHG. Each member is discussed on the basis of evidence for:

1. Demonstrated collaborative research efforts.
 - Publications with other MIHG members.
 - Service as a PI or Co-investigator on grant/grant proposal(s) with other members.
 - Service as a PI or Co-investigator on clinical protocol with other members.
 - Participation as a mentor to more junior members.
2. Participation at the MIHG.
 - Attendance at the annual MIHG research retreat.
 - Participation in MIHG committees, special initiatives and meetings.
 - Participation in MIHG education efforts.
3. Demonstrated use of MIHG shared resources.

Members not meeting these criteria are counseled. Membership is withdrawn if progress is not demonstrated in the 12 month period following counseling.

Appeals Process

Individuals who are denied membership or whose membership is rescinded will be able to avail themselves of an official appeals process. These individuals must submit their appeal in writing to the MIHG Director. The MIHG Director may grant an appeal. If the MIHG Director wishes to sustain the decision of the executive committee and deny the appeal, he or she must forward the request for an appeal to the Dean of the Miller School of Medicine for review. Denial of an appeal must be approved by the Dean.

4.6 Advisory Board

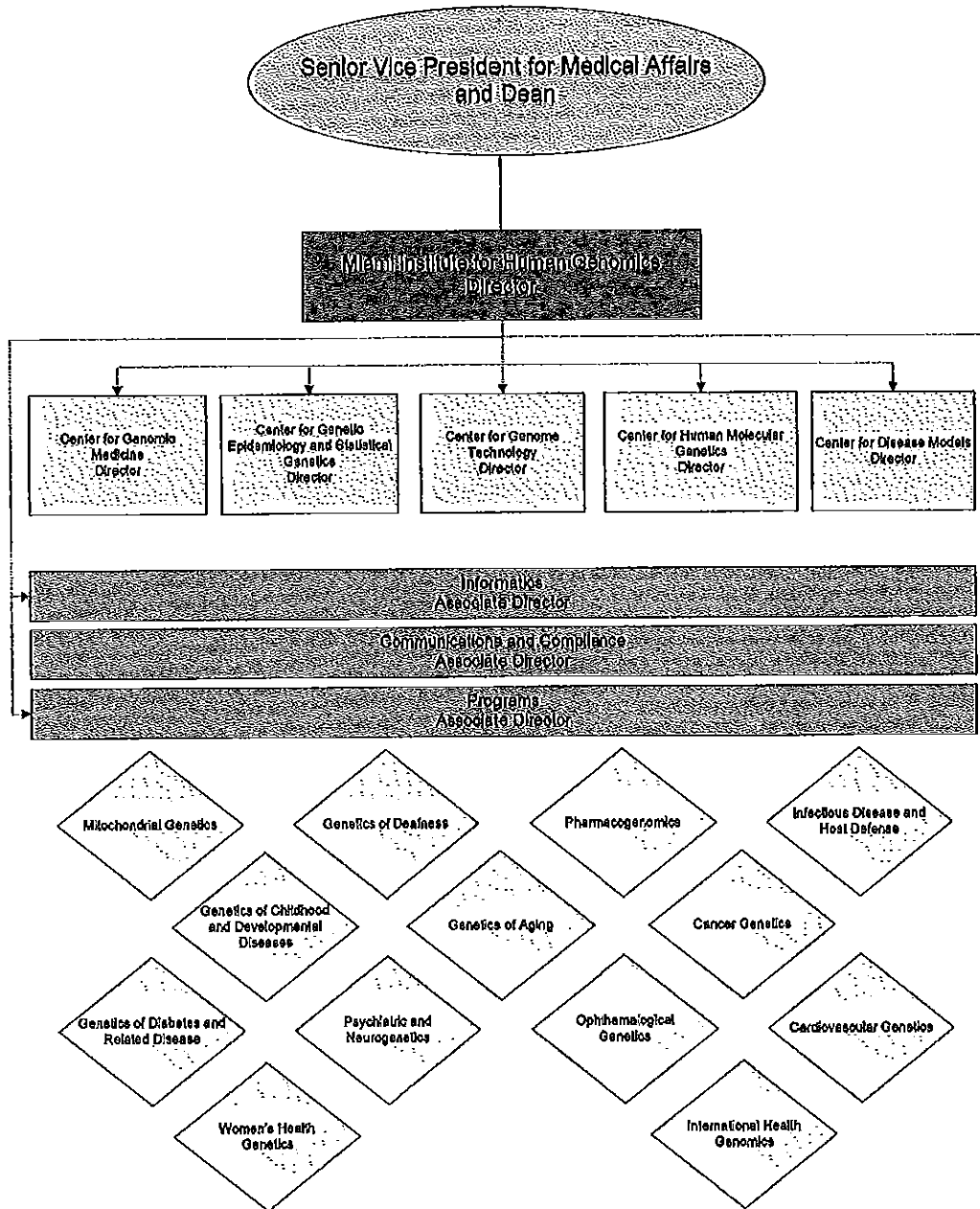
The MIHG Advisory Board will provide counsel concerning MIHG plans and initiatives and help the Director identify means and paths to achieve the mission of MIHG. They will meet at minimum annually to provide feedback and consultation to the MIHG Director regarding MIHG's progress and future plans including development and strategic planning.

The MIHG Advisory Board may be comprised of University of Miami faculty and community-at-large members selected by the MIHG director in consultation with the Dean of the Miller School of Medicine and appointees designated by the governor of the state of Florida in compliance with the terms of the economic development contract with the state of Florida; at least one member will be on the board of the Dr. John T. Macdonald Foundation. Other Miller School of Medicine or University leaders will be invited on an as needed basis by the MIHG director or the MIHG executive committee.

4.7 Space

The research activities of the MIHG require well equipped lab and administrative space. Initially research will be conducted in space at South Campus and the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building at its completion in 2008.

4.8 MIHG Organizational Chart



5. FUNDING SOURCES AND PROJECTIONS

The MIHG is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by an economic development contract with the state of Florida. These funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers, Programs, and Institute resources described above. In addition, the initial primary members have brought approximately 13.5 million in sponsored research dollars (\$10 million in direct costs and 3.5 million in indirect costs) for the current fiscal year. All members are expected to seek external funding for their research; thus there are high expectations for significant growth in sponsored funding.

Appendix A. Biographical Information for proposed Director

Margaret A. Pericak-Vance, Ph.D. Director of the Miami Institute for Humans Genomics, Dr. Pericak-Vance is a founding fellow of the American College of Medical Genetics and a board-certified PhD medical geneticist. Dr. Pericak-Vance is a global leader in the genetics of common diseases. She excels at the integration of genomic and statistical technologies and their application to diseases of public health importance in general, and to neurologic diseases in particular. Her more than 400 peer-reviewed papers demonstrate outstanding productivity and establish important milestones in diseases that include tuberous sclerosis, the muscular dystrophies, amyotrophic lateral sclerosis (ALS), age-related macular degeneration (AMD), multiple sclerosis (MS), autism, and Alzheimer disease (AD).

**Proposal for the Establishment of the
Center for Genomic Medicine
at the University of Miami Miller School of Medicine**

1. BACKGROUND

This proposal seeks to formally establish a Center for Genome Medicine (CGM). The CGM will be a component of the proposed Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CGM is one.

2. MISSION

The proposed center will house the MIHG biorepository, which is an important resource for all genetic and genomic studies. The primary purpose of the CGM is to translate genetic findings into medical practices in order to improve healthcare by innovating methods for early and accurate diagnosis as well as personalized and targeted treatments. The CGM will provide expertise in patient ascertainment, pharmacogenomics, genomic medicine, and translational genomics.

3. MARKET ANALYSIS

The potential establishment of the CGM within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The CGM will be led by a Director that reports to and is reviewed by the MIHG Director. The CGM consists of three integrated sections and one core resource. The Biorepository is one of the major core areas serving the MIHG and the University. It will store biological samples ranging from blood to tissue and fluids. A dedicated team of individuals will work strictly in the bank. Significant expertise in informatics and sample handling has been accumulated in the current personnel, and this is one of the strengths of the repository. It will provide samples and DNA extraction for all of the MIHG research studies, and many of those within the Medical Center.

The sections and core are:

- **Section of Pharmacogenetics**
- **Section of Family and Patient Ascertainment**
- **Section of Translational Genomics**
- **Biorepository Core**

Membership

Members of the MIHG may affiliate with the CGM based on their interests and expertise. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its component Centers require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CGM is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by an economic development contract with the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CGM is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

**Proposal for the Establishment of the
Center for Genome Technology
at the University of Miami Miller School of Medicine**

1. BACKGROUND

This proposal seeks to formally establish a Center for Genome Technology (CGT). The CGT will be a component of the proposed Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CGT is one.

2. MISSION

The proposed Center will provide an interdisciplinary home for research related to the discovery of human disease genes. The Center will house state-of-the-art laboratory technology and personnel with expertise in genomic technologies.

3. MARKET ANALYSIS

The potential establishment of the CGT within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The CGT will be led by a Director. The CGT Director will report to and be reviewed by the MIHG Director. The CGT will employ personnel with expertise spanning genomic, proteomic and metabolomic methods and technologies. The CGT will provide expertise and technology support to help establish new research collaborations within the Miller School and the University. Core resources available through the CGT are:

- **Genotyping Core**
- **Sequencing/Variation Detection (SVD) Core**
- **Array Technology Core**
- **Proteomics/Metabolomics Core**
- **Technology Development Core**

Membership

Members of the MIHG may affiliate with the CGT based on their interests and expertise. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its component Centers require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CGT is being initially funded as part of a commitment by the Dean to Dr. Margaret Perleak-Vance and by an economic development contract with the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CGT is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

**Proposal for the Establishment of the
Center for Genetic Epidemiology and Statistical Genetics
at the University of Miami Miller School of Medicine**

1. BACKGROUND

This proposal seeks to formally establish a Center for Genetic Epidemiology and Statistical Genetics (CGESG). The CGESG will be part of the Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CGESG is one.

2. MISSION

The proposed center will focus on interdisciplinary research in genetic epidemiology and statistical genetics as they relate to human disease. The CGESG will provide expertise and state-of-the-art analytic methodology to discover human disease genes.

3. MARKET ANALYSIS

The potential establishment of the CGESG within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The CGESG will be led by a Director who will report to and be reviewed by the MIHG Director. The CGESG consists of 3 sections each headed by a section leader.

- **Section of Genetic Epidemiology**
- **Section of Statistical Programming**
- **Section of Applied Analysis**

Membership

Members of the MIHG may affiliate with the CGESG based on their interests and expertise. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its core components require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CGESG is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by an economic development contract with the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CGESG is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

**Proposal for the Establishment of the
Center for Human Molecular Genomics
at the University of Miami Miller School of Medicine**

1. BACKGROUND

This proposal seeks to formally establish a Center for Human Molecular Genomics (CHMG). The CHMG will be a component of the proposed Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CHMG is one.

2. MISSION

The proposed Center will develop a world-class research program for the discovery and characterization of human disease genes utilizing innovative molecular genetic methods. In the study of disease genes, evidence to support the identification of a disease gene and information about a gene's biological mechanisms and therefore its potential role in disease etiology is crucial. The proposed Center will provide expertise in functional and regulatory genomics as well as in epigenetics.

3. MARKET ANALYSIS

The potential establishment of the CHMG within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The CHMG will be led by a Director. The CHMG Director will report to and be reviewed by the MIHG Director. The CHMG will provide state-of-the-art molecular genetic knowledge and technology for the discovery and molecular characterization of human disease genes. The CHMG will house the following core sections:

- Section of Genomics
- Section of Regulatory Genetics
- Section of Epigenetics

Membership

Members of the MIHG may affiliate with the CHMG based on their interests and expertise. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its component Centers require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research

Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CHMG is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by an economic development contract with the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CHMG is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

**Proposal for the Establishment of the
Center for Models of Human Disease
at the University of Miami Miller School of Medicine**

1. BACKGROUND

This proposal seeks to formally establish a Center for Models of Human Disease (CMHD). The CMHD will be a component of the proposed Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CMHD is one.

2. MISSION

The proposed Center will evaluate the biology of previously identified susceptibility genes through the construction of model organisms. These models can be used to identify disease mechanisms, and to create genetic and biology-based models that can be used as targets for therapeutic screening by the research community. By establishing a group of interacting individuals, each an expert in using a specific organism or technique for modeling studies, we will maximize the potential of each model and speed the study of these important biological variables.

3. MARKET ANALYSIS

The potential establishment of the CMHD within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The CMHD will be led by a Director who is an expert in model organisms. The CMHD Director will report to and be reviewed by the MIHG Director.

Membership

Members of the MIHG may affiliate with the CMHD based on their interests and expertise. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its component Centers require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CMHD is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by an economic

development contract with the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CMHD is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

General Welfare Committee
March 19, 2008
3:30 p.m.
(School of Law Library-Conference Room, 4th floor)

1. Chair's remarks (3:30)
2. # Review of draft Faculty Senate Meeting Minutes of February 27, 2008 (3:35)
3. # Miami Institute for Human Genomics and Component Center Proposals – J. McCafferty-Cepero (3:40)
4. # Proposal for a Doctor of Philosophy in Computer Science – H. Kocak (3:55)
5. ## Academic Standards Committee Undergraduate Admission Report – (4:10)
6. ## Proposal Regarding Latin Honors – (4:25)
7. Outstanding Teaching Award Committee Recommendation – E. Clasby (4:40)
8. # Request for Guidance Concerning Doctoral Study in Their Home Department/School by Masters-Prepared Faculty in Physical Therapy and Nursing – S. Hayes, V. Mitrani (4:50)
9. # Proposal for a New Degree Program, the Master in Real Estate Development and Urbanism (MRED&U) – C. Bohl, D. Hector (5:20)
10. # Move of Masters of Public Administration from the School of Business Administration to the College of Arts and Sciences – Note: a memo from the Dean of Arts and Sciences will be forthcoming - (5:35)
11. # Senate Apportionment - (5:40)

related material included

materials will be sent separately

Original
RWC doc.

**Proposal for the Establishment of the
Center for Center for Genome Technology
at the University of Miami Miller School of Medicine**

1. BACKGROUND

This proposal seeks to formally establish a Center for Genome Technology (CGT). The CGT will be a component of the proposed Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CGT is one.

2. MISSION

The proposed Center will provide an interdisciplinary home for research related to the discovery of human disease genes. The Center will house state-of-the-art laboratory technology and personnel with expertise in genomic technologies.

3. MARKET ANALYSIS

The potential establishment of the CGT within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The proposed center will be directed by Dr. John R. Gilbert who will report to and be reviewed by the MIHG Director. Dr. Dale Hedges is the Assistant Director of the CGT.

The CGT will employ personnel with expertise spanning genomic, proteomic and metabolomic methods and technologies. The CGT will provide expertise and technology support to help establish new research collaborations within the Miller School and the University. Several core resources will be available through the CGT and each will have a Core Leader who reports to and is reviewed by the CGT Director. Initially, the CGT will offer the following cores:

- **Genotyping Core:** Core Leader, Ionna Konidari
- **Sequencing/Variation Detection (SVD) Core:** Core Leader, William Hulme
- **Array Technology Core:** Core Leader, Lubov Nathanson
- **Proteomics/Metabolomics Core:** Core Leader, TBN
- **Technology Development Core:** Core Leader, Charles Kroner

Membership

Members of the MIHG may affiliate with the CGT based on their interests and expertise according to the process outlined in the MIHG proposal. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its component Centers require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CGT is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by funds from the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CGT is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

**Proposal for the Establishment of the
Center for Human Molecular Genomics
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1. BACKGROUND

This proposal seeks to formally establish a Center for Human Molecular Genomics (CHMG). The CHMG will be a component of the proposed Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CHMG is one.

2. MISSION

The proposed Center will develop a world-class research program for the discovery and characterization of human disease genes utilizing innovative molecular genetic methods. In the study of disease genes, evidence to support the identification of a disease gene and information about a gene's biological mechanisms and therefore its potential role in disease etiology is crucial. The proposed Center will include faculty members with expertise in functional and regulatory genomics as well as those with backgrounds in epigenetics.

3. MARKET ANALYSIS

The potential establishment of the CHMG within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The proposed center will be directed by Dr. Stephan Zuchner who will report to and be reviewed by the MIHG Director.

The CHMG will provide state-of-the-art molecular genetic knowledge and technology for the discovery and molecular characterization of human disease genes. Each core section will have a Section Leader who reports to and is reviewed by the CHMG Director. The CHMG will initially house the following core sections:

- **Section of Genomics: Section Leader, Gaofeng Wang, Ph.D.**
- **Section of Regulatory Genetics: Section Leader, TBN**
- **Section of Epigenetics: Section Leader, TBN**

Membership

Members of the MIHG may affiliate with the CHMG based on their interests and expertise according to the process outlined in the MIHG proposal. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its component Centers require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CHMG is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by funds from the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CHMG is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

**Proposal for the Establishment of the
Center for Models of Human Disease
at the University of Miami Miller School of Medicine**

1. BACKGROUND

This proposal seeks to formally establish a Center for Models of Human Disease (CMHD). The CMHD will be a component of the proposed Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CMHD is one.

2. MISSION

The proposed Center will evaluate the biology of previously identified susceptibility genes through the construction of model organisms. These models can be used to identify disease mechanisms, and to create genetic and biology-based models that can be used as targets for therapeutic screening by the research community. By establishing a group of interacting individuals, each an expert in using a specific organism or technique for modeling studies, we will maximize the potential of each model and speed the study of these important biological variables.

3. MARKET ANALYSIS

The potential establishment of the CMHD within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The proposed center will be led by a Center Director with expertise in model organisms. The CMHD Director will report to and be reviewed by the MIHG Director.

Membership

Members of the MIHG may affiliate with the CMHD based on their interests and expertise according to the process outlined in the MIHG proposal. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its component Centers require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CMHD is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by funds from the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CMHD is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

**Proposal for the Establishment of the
Miami Institute for Human Genomics
at the University of Miami Miller School of Medicine**

This proposal seeks to formally establish an Institute for Human Genomics at the University of Miami Miller School of Medicine that will take its place among the nation's leading genetic and genomic research institutes. The Institute will be called the Miami Institute for Human Genomics (MIHG). MIHG consists of five integrated Centers each of which is described in a separate proposal, but none of which are designed to exist in the absence of the umbrella institute. Although MIHG initially is being proposed as a Miller School Institute, the long term plan is for MIHG to develop into a pan-institutional University-based institute. As cross-school collaborations and research activities grow, University level institute status will be sought according to the proper University procedures. MIHG welcomes members from schools and colleges across the University as well as from neighboring higher education institutions such as Florida Atlantic University and Florida International University.

1. BACKGROUND

In recent years, the fields of genetics and genomics have grown more rapidly than any other area of medicine, especially since the completion of The Human Genome Project in 2003. The fields extend far beyond traditionally recognized single-gene disorders such as Huntington Disease, Sickle Cell Anemia, and Cystic Fibrosis to include complex and common human disease such as autism, Alzheimer and Parkinson diseases, heart disease, and cancer. Understanding the complicated interactions behind these multi-gene disorders as well as the interactions of these gene networks with non-genetic or environmental factors is the foundation for the creation and development of genomic medicine as a new and promising field with implications for the practice of medicine and the healthcare industry.

In order to be successful, modern genetic and genomics research must draw on the expertise of many in diverse fields including molecular biology, statistical genetics, genetic epidemiology, and computational science. Additionally, the high cost of state-of-the-art technologies and the requisite specialization required to operate them makes the shared use of equipment and knowledge crucial. Recent breakthroughs in genomics have been made possible by pooling resources, sharing information and equipment, and therefore by sharing the costs. The creation of MIHG supplies an infrastructure around which to coordinate the varied and state-of-the-art technologies and expertise required to perform leading edge genomics research.

Like the field of human genomics, the Miller School of Medicine is undergoing a period of dynamic expansion. In order to maintain momentum we have successfully recruited two of the world's leaders in genomic medicine, Drs. Margaret A. Pericak-Vance and Jeffery M. Vance. In this extraordinary period of growth both at the University and in the field, the establishment of the MIHG will position the University of Miami as the leader in genomics research in South Florida as well as nationally and internationally.

2. MISSION

The MIHG seeks to discover and explain the genetic influences on human health and to pioneer the application of this knowledge to the diagnosis, intervention, and prevention of disease, thus changing the practice of medicine, and fulfilling the promise of the Human Genome Project for direct patient care.

The MIHG is committed to catalyzing research at the University of Miami that uncovers the genetic basis of complex diseases and the translation of laboratory findings to direct patient care. The MIHG will become a locus for the establishment and development of fruitful collaboration across many disciplines by bringing together and matching interests and expertise in an intentional and productive manner. The presence of this type of entity will amplify the pace of discovery and expand the breadth and width of the impact of these discoveries. These types of interdisciplinary collaboration will also result in an increase in high-impact publications, a greater number of investigators receiving extramural funding, and expanded visibility in the national and international research community for the University of Miami. Through the MIHG, the University will be able to take pride in being at the crossroads between fundamental research and clinical applications, such that knowledge transfers in both directions, for the ultimate benefit of human health.

3. MARKET ANALYSIS

The potential establishment of the MIHG at the University of Miami Miller School of Medicine needs to be examined with due consideration of our strengths and weaknesses, the opportunities that are currently open to us, and the challenges that we may face in the future.

3.1 Strengths

We are the oldest and most established medical school in South Florida, serving a population of 7 million or more.

- We have a large group of clinicians and researchers who are experts in areas of clinical medicine where genomics is rapidly becoming important. This situation can pave the way for translational work.
- With the recruitment of Dr. Margaret A. Pericak-Vance, Dr. Jeffery M. Vance, and their colleagues, we are poised to have an unmatched genetics/genomics presence in South Florida.
- There are a number of ongoing studies and members of the faculty who have unique expertise who would benefit from and who would be assets to an entity such as is proposed. With access to resources and an institution around which to organize, the genomic expertise and research already present would grow and thrive.
- The Louis Calder Memorial Library has significant genetics/genomics journal subscriptions and book holdings.

3.2 Weaknesses

- There is no structure or an organization that fosters intramural collaboration and communication in genomics.
- There is no coordination of genomics resources resulting in them being undershared and underutilized.

3.3 Opportunities

Under the leadership of Dean Pascal Goldschmidt a new vision for the Miller School of Medicine is being actualized. The Miller School research community is limited by not having a high profile presence in genomic research; however, past and ongoing recruitment of established and productive geneticists presents an ideal moment for the establishment of the MIHG. With a critical mass of human and technological resources, the MIHG would facilitate interdisciplinary collaborations that will accelerate the pace of genomic discovery in order to translate these discoveries into clinical care.

3.4 Challenges

Once the MIHG has been formally established, we face the challenge of staying current with this fast changing field. To do this, we need to continue to recruit the best individuals in the field, and offer unique collaborative opportunities.

In addition, we need to ensure that we continue to utilize the universality of genetics in medicine as a nucleus for collaboration among various investigators and disciplines, both within the University and beyond.

4. ORGANIZATION AND MEMBERSHIP

The proposed MIHG will be directed by Dr. Margaret A. Pericak-Vance. The MIHG Director will report to the Dean of the Miller School of Medicine. The institute consists of five centers each headed by a Center director; two institute resources each headed by an associate director, and a number of programs for which each program has a program leader and for which there will be an Associate Director to oversee all programs. The proposed MIHG Centers are described in separate Center documents. The MIHG organization is explained in more detail below.

Margaret A. Pericak-Vance, Ph.D. Director of the Miami Institute for Humans Genomics, Dr. Pericak-Vance is a founding fellow of the American College of Medical Genetics and a board-certified PhD medical geneticist. Dr. Pericak-Vance is a global leader in the genetics of common diseases. She excels at the integration of genomic and statistical technologies and their application to diseases of public health importance in general, and to neurologic diseases in particular. Her more than 400 peer-reviewed papers demonstrate outstanding productivity and establish important milestones in diseases that include tuberous sclerosis, the muscular dystrophies, amyotrophic lateral sclerosis (ALS), age-

related macular degeneration (AMD), multiple sclerosis (MS), autism, and Alzheimer disease (AD).

4.1 MIHG Centers:

The proposed institute will contain 5 centers. The Centers are the core components of the MIHG and are not designed to exist apart from the MIHG. Centers are focused on areas of specific expertise or functions within human genetics and genomics and house state-of-the-art technologies and the personnel to support them. In addition, Centers house the various shared (core) resources available to the University of Miami research community, guiding the implementation, development, and execution of genomics research at the University of Miami. Each Center is headed by a Center Director and includes a number of core facilities that are administered and developed within the mission and vision of MIHG. Each Center is described in a separate Center proposal.

4.2 MIHG Resources:

Institute resources are defined as resources available to the institute in support of the multiple centers and programs. They provide expertise to facilitate the functioning of all centers. Associate Directors are selected and reviewed by the MIHG Director.

Informatics

Proposed Associate Director: William Scott, Ph.D.

The mission of the Informatics resource is to facilitate genomic research and training at University of Miami by providing state-of-the-art computational, data manipulation, and data storage tools to MIHG faculty, staff, and students. This includes the Clinical and Laboratory Database which consists of three interrelated databases, custom user interfaces created for each, and ancillary programs that manipulate data for storage and analysis.

Communications, Compliance, and Community Outreach

Proposed Associate Director, Susan Blanton, Ph.D.

The Communication, Compliance, and Community Outreach resource is responsible for developing, overseeing and managing IRB protocols, monitoring ethical and legal topics concerning genetic research and maintaining HIPAA compliance. They will oversee all communication to those outside of the institute. This will include, but is not limited to brochures, website material, newsletters, and other promotional material. This group is also responsible for overseeing the educational efforts of the MIHG such as community outreach education in genomic medicine and genomic research, invited expert speaking engagements, and education for clinicians and other interested members of the University of Miami research community.

4.3 Programs

Associate Director of Programs, TBA

The proposed institute will house a series of research Programs designed to be interdisciplinary, interactive, and proactive. The objective of these Programs is to foster

new initiatives in a designated research area, bringing those with similar interest from all campuses of the University of Miami with the expectation that external funding will be obtained. Programs are organized by a common disease or disorder or grouping of disease or disorders. The overall goals of each Program are:

- a) to increase awareness in the Program area,
- b) to facilitate new and renewed projects and funding for the Program area, and
- c) to cultivate near- and far-reaching collaborations that would promote and enhance the mission and vision of MIHG.

Program development will be overseen by an Associate Director of Programs who will be a primary member of MIHG and appointed by the MIHG Executive committee. Each program will be headed by a Program Leader who is a primary or associate MIHG member with expertise in the Program area. Program leaders will be expected to assess the overall needs of the program and define specific areas which champion the expertise of the University research community. Research undertaken within each program is expected to make use of the facilities and resources administered by the Centers and Cores as detailed above. Below are a number of examples of program areas currently in progress:

PROGRAM
Genetics of Childhood and Developmental Diseases
Cardiovascular Genetics
Cancer Genetics
Genetics of Aging
Infectious Disease and Host Defense
Neurogenetics
Mitochondrial Genetics
Genetics of Diabetes and Related Disease
Psychiatric Genetics
Ophthalmological Genetics
Women's Health Genomics
Pharmacogenomics
Genetics of Deafness
International Health Genomics
Autism Spectrum Disorders

4.4 Executive Committee

The MIHG Executive Committee's members are MIHG Center Directors, MIHG Resource Associate Directors, and the MIHG Director of Finance and Administration. The MIHG Director will chair the Executive Committee. The Executive Committee appoints Program Leaders, reviews and approves applications for Institute membership, and serves in an advisory capacity to the Director.

4.5 Membership in MIHG

Membership in MIHG is open to all University of Miami faculty members and to faculty members of affiliated institutions in South Florida according to the criteria listed below. All faculty members must have an appointment in an academic department. Membership categories are independent of academic rank.

New members will attend a formal orientation process that includes information on the structure of the MIHG as well as the benefits and responsibilities of membership. While it is anticipated that most MIHG members will be affiliated with one or more MIHG Centers based on their interest and expertise, Center affiliation is not a requirement of MIHG membership.

Overall criteria for membership

1. Demonstrated research in human genetics:
 - PI or Co-PI on active or proposed peer-reviewed or non-peer-reviewed funding in research with human genetic or genomic relevance
 - Human genetic-focused publications
2. Agreement to fulfill the responsibilities of membership
3. Initial membership appointments will be for three years and will be contingent upon successful completion of an annual review process.

Application and Selection Process

To apply for membership, an interested faculty member must submit the following information to the MIHG Executive Committee.

- Completed MIHG Membership Application form (including description of research interest, statement of genetics or genomics research focus, and the Center (s) with which the faculty member would like to affiliate, if applicable)
- Current CV and NIH Biosketch
- Current research funding information

This information is then reviewed by the MIHG Executive Committee, chaired by the MIHG Director. Membership is awarded for an initial period of five years. The Committee will meet yearly to review the entire MIHG membership roster, to make sure that it reflects the mission of the MIHG.

Benefits of Membership Proposal:

1. Eligibility to have access to shared resources at a subsidized rate.
2. Eligibility to receive developmental funding for innovative ideas.
3. Administrative support for submission of genetics-related grants and contracts.

Responsibilities of Membership

All MIHG members are expected to contribute to the mission and growth of the MIHG through support of MIHG activities. The responsibilities of members include:

1. Willingness to work collaboratively with other scientists and clinical researchers on problems related to human genetics.
2. Active participation in activities including research programs and disease oriented working groups.
3. Attendance at scheduled functions of the (egs. Invited speakers, scientific meetings)
4. Active participation in the education and visibility raising efforts, including appropriate symposia and community education.
5. Where applicable, willingness to provide mentoring to junior faculty and other members.
6. All members will be responsible to provide information updates as required, and must be willing to share this information for the purpose of reporting requirements.

Categories of Membership

There are three categories of membership: primary, associate, and affiliate.

Primary members reside and perform research in MIHG space. Executive committee members will be drawn from the primary membership. A small number of primary members who will serve in key support positions or provide unique services to MIHG will not be aligned with a specific research program. They are required to be affiliated with an MIHG Center or MIHG Program.

Associate members do not necessarily reside in MIHG space, but work in collaboration with primary members or actively utilize core resources of the MIHG.

Affiliated members are non-UM investigators with an appointment at an accredited academic institution, but work in collaboration with primary members or actively utilize core resources of the MIHG.

Member Review

The Executive committee will also serve as the membership committee and will meet yearly for a thorough review of the entire membership roster. Members will be formally reviewed every five years for continued membership in the MIHG. Each member is discussed on the basis of evidence for:

1. Demonstrated collaborative research efforts.
 - Publications with other MIHG members.
 - Service as a PI or Co-investigator on grant/grant proposal(s) with other members.
 - Service as a PI or Co-investigator on clinical protocol with other members.
 - Participation as a mentor to more junior members.

4. Participation at the MIHG.

- Attendance at the annual MIHG research retreat.
- Participation in MIHG committees, special initiatives and meetings.
- Participation in MIHG education efforts.

5. Demonstrated use of MIHG shared Core resources.

Members not meeting these criteria are counseled. Membership is withdrawn if progress is not demonstrated in the 12 month period following counseling.

Appeals Process

Individuals who are denied membership or whose membership is rescinded will be able to avail themselves of an official appeals process. These individuals must submit their appeal in writing to the MIHG Director.

4.6 Advisory Board

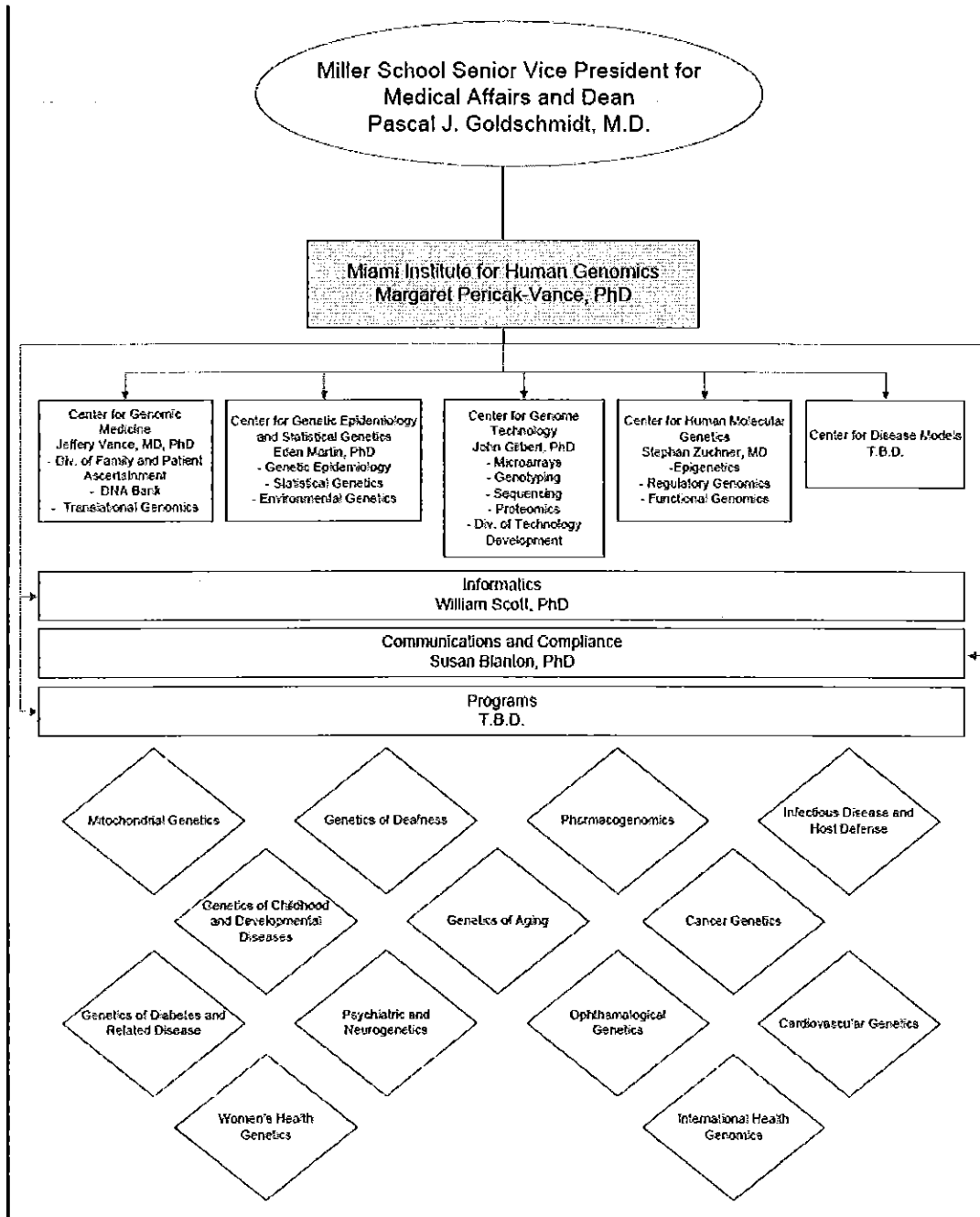
The MIHG Advisory Board will provide counsel concerning MIHG plans and initiatives and help the Director identify means and paths to achieve the mission of MIHG. They will meet at minimum annually to provide feedback and consultation to the MIHG Director regarding MIHG's progress and future plans including development and strategic planning.

The MIHG Advisory Board may be comprised of University of Miami faculty and community-at-large members selected by MIHG director in consultation with the Dean of the Miller School of Medicine and appointees designated by the governor of the state of Florida; at least one member who will be on the board of the Dr. John T. Macdonald Foundation. Other Miller School of Medicine or University leaders will be invited on an as needed basis by the MIHG director or the MIHG executive committee.

4.7 Space

The research activities of the MIHG require well equipped lab and administrative space. Initially research will be conducted in space at South Campus and the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building at its completion in 2008.

4.8 MIHG Organizational Chart



5. FUNDING SOURCES AND PROJECTIONS

The MIHG is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by funds from the state of Florida. These funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers, Programs, and Institute resources described above. In addition, the initial primary members have brought approximately 12 million in sponsored research dollars (~9 million in direct costs and ~3 million in indirect costs) for the current fiscal year. All members are expected to seek external funding for their research, thus there are high expectations for significant growth in sponsored funding.

**Proposal for the Establishment of the
Center for Genetic Epidemiology and Statistical Genetics
at the University of Miami Miller School of Medicine**

1. BACKGROUND

This proposal seeks to formally establish a Center for Genetic Epidemiology and Statistical Genetics (CGESG). The CGESG will be part of the Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CGESG is one.

2. MISSION

The proposed center will focus on interdisciplinary research in genetic epidemiology and statistical genetics as they relate to human disease. The CGESG will provide state-of-the-art analytic methodology to discover human disease genes. .

3. MARKET ANALYSIS

The potential establishment of the CGESG within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The proposed center will be directed by Dr. Eden Martin who will report to and be reviewed by the MIHG Director. The CGESG consists of 3 sections each headed by a section leader.

- **Section of Genetic Epidemiology:** Section Leader, Susan Slifer
- **Section of Statistical Programming:** Section Leader, Michael Schmidt, PhD
- **Section of Applied Analysis:** Section Leader, TBN

Membership

Members of the MIHG may affiliate with the CGESG based on their interests and expertise according to the process outlined in the MIHG proposal. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its core components require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CGESG is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by funds from the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CGESG is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

**Proposal for the Establishment of the
Center for Genomic Medicine
at the University of Miami Miller School of Medicine**

1. BACKGROUND

This proposal seeks to formally establish a Center for Genome Medicine (CGM). The CGM will be a component of the proposed Miami Institute for Human Genomics (MIHG) at the University of Miami Miller School of Medicine. As described in the MIHG proposal, the MIHG consists of five integrated Centers of which the CGM is one.

2. MISSION

The proposed center will house the MIHG biorepository, which is an important resource for all genetic and genomic studies. The primary purpose of the CGM is to translate genetic findings into medical practices in order to improve healthcare by innovating methods for early and accurate diagnosis as well as personalized and targeted treatments. The CGM will include with expertise in patient ascertainment, pharmacogenomics, genomic medicine, and translational genomics.

3. MARKET ANALYSIS

The potential establishment of the CGM within the MIHG at the University of Miami Miller School of Medicine has been described in the MIHG proposal.

4. ORGANIZATION AND MEMBERSHIP

The proposed center will be directed by Dr. Jeffery M. Vance who will report to and be reviewed by the MIHG Director.

The CGM consists of three integrated sections and one core resource. Since the CGM will be the locus for all translational work at the MIHG and house the biorepository, the Biorepository is one of the major core areas serving the MIHG and the University. It will store biological samples ranging from blood to tissue and fluids. A dedicated team of individuals will work strictly in the bank. Significant expertise in informatics and sample handling has been accumulated in the current personnel, and this is one of the strengths of the repository. It will provide samples and DNA extraction for all of the MIHG research studies, and many of those within the Medical Center.

The sections and core are:

- **Section of Pharmacogenetics: Section Leader, TBN**
- **Section of Family and Patient Ascertainment: Section Director, Michael Cuccaro, PhD**
- **Section of Translational Genomics: Section Leader, TBN**
- **Biorepository Core: Core Leader, Sandra West**

Membership

Members of the MIHG may affiliate with the CGM based on their interests and expertise. Membership in the MIHG is based on criteria described in the MIHG proposal.

Space

The research activities of the MIHG and its component Centers require well equipped lab and office space. Initially research will be conducted in space at the Clinical Research Building on the Medical Campus. The MIHG will have permanent space in the Multidisciplinary Research Building after its completion in Fall 2008.

Funding Sources

As a core component of the MIHG, the CGM is being initially funded as part of a commitment by the Dean to Dr. Margaret Pericak-Vance and by funds from the state of Florida. As described in the MIHG proposal, these funds are to be expended over a five year period and will be used to create the infrastructure necessary to support the Centers of which the CGM is one, MIHG Programs, and MIHG Institute resources described in the MIHG proposal.

MILLER
SCHOOL OF MEDICINE

Pascal J. Goldschmidt, M.D., FACC
Senior Vice President for Medical Affairs and Dean
Chief Executive Officer, Miami Medicine

Memorandum

To: Iris Barrios
Secretary of the Faculty Senate

From: Pascal G. Goldschmidt, M.D.
Senior Vice President for Medical Affairs and Dean

Date: November 19, 2007

Subject: Support for the Miami Institute for Human Genomics

PJG

This memo is to document my support for the University of Miami Faculty Senate to approve the creation of the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

The establishment of the MIHG represents a clear expansion of the Miller School and broader University efforts in the highly-interdisciplinary arena of human genomics. The MIHG is a critical piece of the research infrastructure – providing a framework around which to focus our recent recruiting efforts and existing strengths while efficiently providing top-flight shared resources in both expertise and technology. These are especially significant in human genomics research as the instrumentation and skills required for success come at a high cost and are in short supply. The Institute would provide a firm foundation as the Miller School of Medicine builds a world-class environment for human genomics research. Undoubtedly, the MIHG will catalyze fundamental discoveries that uncover the genetic basis of complex diseases and accelerate the translation of these laboratory findings to impact patient care across disciplines.

The creation of the MIHG is an important and timely addition to the Miller School of Medicine. The School has earmarked significant financial resources for the development of the genetics and genomics infrastructure and is fully committed to the success of the MIHG. I fully endorse its creation without hesitation or reservation and look forward to the Senate's approval of this vital institute.

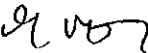


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SCHOOL OF MEDICINE

Marc E. Lippman, M.D.
Kathleen & Stanley Glaser Professor
Chairman, Department of Medicine

To: Elena Flores
Secretary of the Faculty Senate

From: Marc E. Lippman, M.D. 
Chairman, Department of Medicine

Date: January 11, 2008

Subject: Miami Institute for Human Genomics (MIHG)

This memo is to express my enthusiasm for the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

This new institute will become an important component to research at the University of Miami and will foster and grow important genomics research. An institute of this size and scope is truly necessary if the University of Miami Miller School of Medicine is to embrace the rapidly growing field of human genomics and genomic medicine. Research Institutions such as ours will be able count themselves among the top organizations in the world because of the existence of this institute.

Faculty in the Department of Medicine enthusiastically support this proposal and look forward to forming collaborations with new institute. We feel strongly that genomic research possesses tremendous potential to improve human health and healthcare. We are thrilled to be a part of this future.

Cc: Pascal G. Goldschmidt, M.D.




MILLER

SCHOOL OF MEDICINE

Marc E. Lippman, M.D.
Kathleen & Stanley Glaser Professor
Chairman, Department of Medicine

To: Elena Flores
Secretary of the Faculty Senate

From: Marc E. Lippman 
Chairman, Department of Medicine

Date: January 11, 2008

Subject: Miami Institute for Human Genomics (MIHG)

This memo is to request support from the University of Miami Faculty Senate to approve the creation of the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

The proposed institute will form and foster collaborations among University of Miami researchers and physicians in a very important manner. By offering state-of-the-art technological resources to the scientific community in South Florida, the institute will launch successful studies of human diseases at a pace and breadth previously unmatched at the University of Miami. The creation of the MIHG would build an interdisciplinary and pan-institutional home for genomics research and the application of this research in a clinical setting. The result of the work performed under the umbrella of the institute will change medicine through the creation of improved diagnostic tool and targeted therapies for human disease. The new institute would position the Miller School of Medicine for rapid expansion and afford the opportunity to create a world-class environment for research in genomics and the application of the genomic medicine model.

I offer the full cooperation of the Department in supporting the success of this important institute. I fully endorse the creation of the MIHG and look forward to establishing strong and fruitful collaborations with the organization.

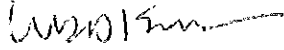




THE MIAMI PROJECT TO CURE PARALYSIS
AN INTERNATIONAL CENTER FOR SPINAL CORD INJURY RESEARCH

W. Dalton Dietrich, Ph.D.
Scientific Director

To: Iris Barrios
Secretary of the Faculty Senate

From: W. Dalton Dietrich, Ph.D. 

Date: January 14, 2008

Subject: Miami Institute for Human Genomics (MIHG)

This memo is to express my enthusiasm for the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

This new institute will become an important component to research at the University of Miami and will foster and grow important genomics research. An institute of this size and scope is truly necessary if the University of Miami Miller School of Medicine is to embrace the rapidly growing field of human genomics and genomic medicine. Research Institutions such as ours will be able count themselves among the top organizations in the world because of the existence of this institute.

Faculty at The Miami Project to Cure Paralysis enthusiastically support this proposal and look forward to forming collaborations with new institute. We feel strongly that genomic research possesses tremendous potential to improve human health and healthcare in patients with brain and spinal cord injuries. We are thrilled to be a part of this future.

Cc: Pascal G. Goldschmidt, M.D.

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To: Elena Flores
Secretary of the Faculty Senate

From: Eckhard R. Podack M.D.
Chairman, Department of Microbiology & Immunology

Date: January 11, 2008

Subject: Support for the Miami Institute for Human Genomics (MIHG)

This memo is to request support from the University of Miami Faculty Senate to approve the creation of the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

The establishment of an Institute dedicated to fostering new and continued genetic and genomic research at the University of Miami is crucial to our continued success as a center for research in South Florida, in the nation, and beyond. This pan-institutional endeavor will include among its membership faculty from multiple departments and schools. Members will be able to access important technological and intellectual resources in order to plan and execute important genetic and genomic studies. These studies will reveal and explain the genetic causes for human disease and create new diagnostic and treatment options that will revolutionize healthcare.

The creation of this new institute would place the Miller School of Medicine among other world-class research universities in the rapidly growing field of genomics research. The new institute represents a timely next step in the University of Miami's vision for the future. I offer the full cooperation of the Department and fully support this proposal. I am anxious to see the great impact the creation of this Institute will have on the state of genomics research at the university and the many contributions we will be able to make to the expanding field of genomic research.



Eckhard R. Podack M.D.

**Sylvester Distinguished Professor
of Microbiology, Immunology and Medicine**

Chairman, Department of Microbiology & Immunology

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MILLER
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UNIVERSITY OF MIAMI

MILLER
SCHOOL OF MEDICINE

To: Elena Flores
Secretary of the Faculty Senate

From: Nicholas Tsinoremas, PhD 
Director, Center for Computational Science

Date: January 16, 2008

Subject: Support for the Miami Institute for Human Genomics (MIHG)

This memo is to request support from the University of Miami Faculty Senate to approve the creation of the Miami Institute for Human Genomics (MIHG) at the Miller School of Medicine.

I fully support the proposal for the establishment of an Institute dedicated to genetic and genomic research at the University of Miami. The Institutes commitment is to the discovery of genetic influences and the translation of such findings. This will undoubtedly place the University of Miami among highly recognized research universities and make the University a global influence in genetics.

I strongly endorse the creation of the Miami Institute for Human Genomics (MIHG) and look forward to forming dynamic collaborations with this organization.

