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MEMORANDUM

To: Julio Frenk
University President

From: Tomás A. Salerno
Chair, Faculty Senate 

Date: February 24, 2017

Subject: Faculty Senate Legislation #2016-33(B) – Establishment of a Master of Science (M.S.) degree in Skin Biology and Dermatological Sciences (S.B.D.S), Miller School of Medicine, Department of Dermatology and Cutaneous Surgery

The Faculty Senate, at its February 22, 2017 meeting, voted unanimously to establish a Master of Science (M.S) degree in Skin Biology and Dermatological Sciences (S.B.D.S) in the Department of Dermatology and Cutaneous Surgery, Miller School of Medicine. The program is being created to fill unmet needs in the skin biology and dermatological sciences by providing formal comprehensive science-based, non-clinical training in this area. It will help prepare students for careers in skin science by providing the essential background of scientific knowledge, management and administrative skills.

The master's program, which is the first of its kind in the United States, will offer a 37-credit thesis track and a 30-credit non-thesis track. The new MS degree will involve the development of 25 new courses and laboratories. However, it will not require additional faculty hire.

This legislation is now forwarded to you for your action.


TAS/rh

Enclosure

cc: Thomas LeBlanc, Executive Vice President and Provost
Laurence Gardner, Interim Dean, Miller School of Medicine
Guillermo Prado, Dean, Graduate School
Jie Lie, Associate Professor, Dermatology and Cutaneous Surgery, Miller School of Medicine
David Lewis, Sr. Program Manager, Dermatology and Cutaneous Surgery, Miller School of Medicine

CAPSULE: Faculty Senate Legislation #2016-33(B) – Establishment of a Master of Science (M.S.) degree in Skin Biology and Dermatological Sciences (S.B.D.S), Miller School of Medicine, Department of Dermatology and Cutaneous Surgery

PRESIDENT'S RESPONSE

APPROVED:  _____
(President's Signature)

DATE: 3/6/17

OFFICE OR INDIVIDUAL TO IMPLEMENT: Dean Laurence Gardner

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

NOT APPROVED AND REFERRED TO: _____

REMARKS (IF NOT APPROVED): _____

COVER PAGE

Proposal to implement a new degree program entitled:
Master of Science in Skin Biology and Dermatological Sciences

Submitted by the Department of Dermatology and Cutaneous Surgery, the University of Miami Miller School of Medicine

Contact:

Jie Li, MD, PhD, Associate Professor
Department of Dermatology and Cutaneous Surgery
1600 NW 10th Avenue, RMSB 2049, Miami, FL 33136
Email: jli@med.miami.edu
Phone: 305-243-3365 (office), 305-205-2931 (cell)
Fax: 305-243-6191

MILLER
SCHOOL OF MEDICINE
UNIVERSITY OF MIAMI

Jie Li, M.D., Ph.D., Associate Professor
Department of Dermatology & Cutaneous Surgery
Email: jli@med.miami.edu, phone: (305) 243-3365

January 25, 2017

Tomas Salerno, MD, Chair
Faculty Senate, University of Miami

Dear Dr. Salerno,

I am submitting a new degree program proposal entitled "Master of Science in Skin Biology and Dermatological Sciences" on behalf of the Department of Dermatology and Cutaneous Surgery at the Miller School of Medicine (UMMSM). The proposal has been reviewed and received support and approvals from:

1. The Medical School leaderships:
 - Dr. Laurence Gardner, Dean (interim) of Medical School (two memos dated Jan. 23, 2017 and Oct. 27, 2016);
 - Dr. Zafar Nawaz, Senior Associate Dean of Graduate Office;
 - Dr. Dushyantha Jayaweera, Dean for Research and Research Education;
2. Medical Faculty Council;
3. Dr. Robert Kirsner, Chair, the Department of Dermatology and Cutaneous Surgery [two memos dated Jan. 24, 2017 and July 29, 2016 (in appendix)]
4. The Office of Assessment and Accreditation (Planning, Institutional Research, and Assessment);
5. Graduate School Council (expected Feb. 21, 2017).

Attached please find the approval letters/memos mentioned above, and more details of the proposal.

Thank you for your consideration.

Sincerely yours,



Jie Li, M.D., Ph.D.



UNIVERSITY OF MIAMI
MILLER SCHOOL
of MEDICINE

Laurence B. Gardner, M.D., MACP
Interim Dean
University of Miami Miller School of Medicine

MEMORADUM

DATE: January 23, 2017

TO: Dr. Tomas Salerno
Chair, Faculty Senate

FROM: Laurence Gardner, MD, MACP
Interim Dean
University of Miami Miller School of Medicine

SUBJECT: Master of Science in Skin Biology and Dermatological Sciences Program

The Department of Dermatology and Cutaneous Surgery submitted a new degree program proposal entitled "Master of Science in Skin Biology and Dermatological Sciences". As in my previous letter dated on October 27th, 2016, the proposed Master program is unique in its scope and structure, and will foster future generations of research scientists and physician scientist as well as industrial leaders in skin research and skincare product development. This program will certainly fulfill an unmet need at the School of Medicine here and in the United States. I fully support the program.

In addition, I have reviewed and approved the proposed budget.

Sincerely,

Laurence Gardner, MD, MACP
Miller Professor of Medicine
Executive Dean for Education and Policy
Interim Dean
University of Miami Miller School of Medicine

Laurence B. Gardner, M.D., MACP
Interim Dean
University of Miami Miller School of Medicine

October 27th, 2016

Jie Li, MD, PhD, Associate Professor
Department of Dermatology and Cutaneous Surgery
University of Miami Miller School of Medicine
1600 NW 10th Ave, Miami, FL 33136

Dear Dr. Li,

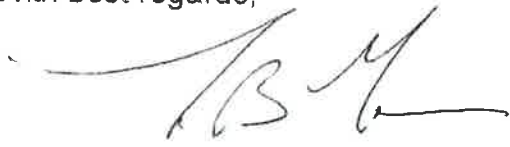
On behalf of the University of Miami Miller School of Medicine (UMMSM), I wish to express my strong support for the development of Master of Science in Skin Biology and Dermatological Sciences Program.

The Department of Dermatology and Cutaneous Surgery at the UMMSM has been in the forefront of dermatology education, research and patient care. As another example of your departmental efforts, the proposed Master program will be the first of its kind in the United States to serve as the model Master of Sciences program in the field. The proposed Master program aligns well with our institutional goals to expand educational offerings. The program would be attractive to students from diverse background including underrepresented minorities and create yet another path for them into advanced doctoral programs or professional careers.

The Master of Science in Skin Biology and Dermatological Sciences program is unique in its scope and structure imparting education not only in the science of skin research but also entrepreneurship, grants management and regulatory affairs. The program will foster future generations of research scientists and physician scientists as well as industrial leaders in skincare product development. Currently no formal mechanism exists in the United States to accommodate such comprehensive science-based training in skin biology and skincare product research. This proposed Master program will fulfill an unmet need in the field and serve as a formal mechanism for those looking for advanced knowledge in skin sciences or seeking a career in skincare or related fields.

You have my full support in your efforts.

With best regards,

A handwritten signature in black ink, appearing to read 'LBG', with a long horizontal flourish extending to the right.

Laurence B. Gardner, M.D., M.A.C.P.
Miller Professor of Medicine
Executive Dean for Education and Policy
Interim Dean
University of Miami Miller School of Medicine

UNIVERSITY OF MIAMI
MILLER SCHOOL
of MEDICINE



August 8, 2016

Jie Li, MD, PhD, Associate Professor
Department of Dermatology & Cutaneous Surgery
University of Miami Miller School of Medicine
1600 NW 10th Ave, RMSB 2049, Miami, FL 33136

Dear Jie:

It was a pleasure discussing your proposed Master of Science in Skin Sciences program. I am pleased to support your proposal to create this new program. A program such as this would be very attractive to a wide variety of individuals, including MD/PhD students wishing to pursue a dermatology residency at the conclusion of their studies. It will certainly help us fill an unmet need here at the School of Medicine.

The program would attract tuition-paying students who wish to improve their chances of getting into medical school. However, students who do not get into medical school, but have enrolled in this program, may become interested in one of our biomedical sciences doctoral programs after completing this degree. Your vision for the proposed degree aligns well with institutional goals to expand educational offerings. Among many benefits to the school, I see this program attracting underrepresented minorities and creating yet another pipeline into our existing doctoral programs for those not immediately ready following undergraduate studies.

I support your commitment to improving graduate education at the Miller School of Medicine and wish you the best for a successful proposal.

Sincerely,

Zafar Nawaz, Ph.D.
Professor of Biochemistry and Molecular Biology
Senior Associate Dean of Graduate and Postdoctoral Studies



UNIVERSITY OF MIAMI
MILLER SCHOOL
of MEDICINE

August 24, 2016

Jie Li, MD, PhD, Associate Professor
Department of Dermatology & Cutaneous Surgery
University of Miami Miller School of Medicine
1600 NW 10th Ave, RMSB 2049, Miami, FL 33136

Dear Dr. Li,

I am pleased to provide my strong support for your proposed Master of Science in Skin Biology and Dermatological Sciences program. After reviewing this degree proposal, I felt your department efforts align well with the Miller School's institutional goals of expanding our educational offerings.

I agree that the proposed program will serve those needing a mastery of dermatology. I was delighted to see there will be a thesis option offered to your students, because it will provide more opportunities for your graduates in Industry and Academia alike. I also felt it will promote meaningful collaborations between departments and institutions. It is yet another example of how the Miller School of Medicine promotes innovation and sustainable growth.

Thank you for your department's continued commitment to research and education. I wish you the best with the development of this promising program.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dushyantha T. Jayaweera', with a long horizontal line extending to the right.

Dushyantha T. Jayaweera MD, MRCOG (UK), FACP, CIP
Executive Dean for Research and Research Education
Professor of Medicine, Miller School of Medicine
Faculty Member AIDS Education and Training Center
1120 N W 14 Street, Executive Offices CRB 360F
Miami, FL 33136

October 26, 2016

Tomas Salerno, M.D.
Chair, Faculty Senate
University of Miami
Ashe Building, Suite #325
252 Memorial Drive
Coral Gables, FL 33146

Re: Council Approved a Proposal for a Master of Science in Skin Biology and Dermatological Sciences

Dear Dr. Tomas Salerno,

This is to inform the Faculty Senate that the Medical School Faculty Council met on October 25th, 2016 to review the **Proposal for a Master of Science in Skin Biology and Dermatological Sciences**.

The proposed degree earning program in Skin Biology and Dermatological Sciences would be the first of its kind in the United States, and will serve as the model Masters of Science program in the field.

The council members voted to *approve* the proposal.

Respectfully submitted,



Carl Schulman, M.D., M.S.P.H., Ph.D.
Speaker, Medical Faculty Council

MEMORADUM

DATE: January 24, 2017

TO: Dr. Tomas Salerno
Chair, Faculty Senate

FROM: Robert Kirsner, MD, PhD
Chairman and Harvey Blank Professor
Department of Dermatology and Cutaneous Surgery
University of Miami Miller School of Medicine

SUBJECT: Master of Science in Skin Biology and Dermatological Sciences Program

This memo is to confirm my support and approval of implementing a new degree program of "Master of Science in Skin Biology and Dermatological Sciences" in the Department of Dermatology and Cutaneous Surgery, University of Miami Miller School of Medicine.

This is also to confirm my approval of the proposed budget (for details see my previous approval letter, dated July 29th, 2016, addressed to Dr. Jie Li, Associate Professor, the director of proposed MS program).

The proposal was reviewed and unanimously approved by the faculty in the Department of Dermatology and Cutaneous Surgery at its meeting of March 30th, 2016.

Sincerely yours,



Robert Kirsner, MD, PhD
Chairman & Harvey Blank Professor
Department of Dermatology and Cutaneous Surgery
University of Miami Miller School of Medicine


UNIVERSITY OF MIAMI



MEMORANDUM

DATE: January 23, 2017

TO: Dr. Jie Li, Associate Professor
Department of Dermatology and Cutaneous Surgery
School of Medicine

FROM: Dr. Patricia Murphy, Executive Director 
Office of Assessment and Accreditation

SUBJECT: Master of Science Degree in Skin Biology and Dermatological Sciences (M.S. Degree in S.B.D.S.)

On 01/19/2017, the School of Medicine's Department of Dermatology and Cutaneous Surgery submitted a proposal notifying our office of its intent to implement a new Master of Science degree in Skin Biology and Dermatological Sciences (M.S. degree in S.B.D.S) program beginning in the fall of 2017.

The program is being created in order to fill unmet needs in the skin biology and dermatological sciences by providing formal comprehensive science-based, non-clinical training in this area. It will help prepare students for careers in skin sciences by providing the essential background of scientific knowledge, management and administrative skills.

The program will offer a thesis track, which will require completion of a laboratory research project and thesis; and a non-thesis track, designed for students who wish to improve their knowledge in Skin Biology and related sciences through a rigorous series of courses. The non-thesis track requires 30 credits and can be completed within 12 months. The thesis track requires 37 credits and can be completed in 16 months. Students in the non-thesis track will be required to submit an independent portfolio demonstrating how they will contribute to the profession.

While the new M.S. degree in S.B.D.S. will involve the development of 25 new courses and labs, there are currently a sufficient number of faculty in the department to support the program. Dr. Jie Li will serve as the Program Director. Dr. Li is a tenured Associate Professor of Dermatology and Cutaneous Surgery. She has a MD from Nanjing Medical College (China) and a residency in dermatology. She has a PhD in Pathobiology and Molecular Medicine from the University of Cincinnati. As Program Director, she will be responsible program planning and administration including curriculum and program development. The department anticipates enrolling 10 students in the first year and up to 20 new students admitted per year once the program is fully implemented.

Based on the details on the proposal, the new program is not likely to be considered substantive and should only require notification to the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) in order to proceed with its implementation.

Please feel free to contact our office should you have any questions or require additional assistance (305) 284-9431.

cc: Faculty Senate
Dr. Laurence Gardner, Interim Dean, Miller School of Medicine
Dr. Zafar Nawaz, Graduate Dean, UMMSM
Dr. Robert Kirsner, Professor and Chair, Dermatology and Cutaneous Surgery, UMMSM
Dr. Dushyantha Jayaweera, Dean, Research and Research Education, UMMSM
Dr. David Lewis, Senior Program Manager, Dermatology and Cutaneous Surgery, UMMSM

EXECUTIVE SUMMARY OF THE PROPOSAL

1. The Program Outlines:

- **Title of the Degree:**
Master of Science in Skin Biology and Dermatological Sciences (MS in SBDS)
- **Two Tracks, Durations and Credits required:**
 - 1) Non-thesis: 12 months, 30 core courses credits
 - 2) Thesis: 16 months, 30 core credits + 1 lab rotation credit + 6 lab research credits

2. Rationale:

In past two decades there have been revolutionary developments in Biomedical Science. From human genome to stem cells, and from targeted therapies to personalized medicine, biomedical science has changed traditional medicine, and as a result has changed our thinking. The proposed degree earning program in Skin Biology and Dermatological Sciences would **be the first of its kind in the United States**, and will serve as a formal mechanism for those individuals who seek to enrich themselves with advanced knowledge and will fulfill an unmet needs in the skin biology and dermatological sciences.

3. Program Resources:

1) Classroom, Computer and Infrastructure

- **Dermatology Library:** RMSB2090, ~909 sf, with two newly installed 90 inch LED TV screens, a new desk-top computer and live auto-recording system;
- **Dermatology Conference Room:** RMSB 2023, 318 sf, will install a 75 inch LED TV screen with a laptop computer;
- **Video studio system:** including Canon camera, Blackmagic Design H264 Pro recorder, computer, software, monitor, green screen and lighting equipment, etc.

2) Research Laboratories

- **Research laboratories in the department:** 7 labs are located in the RMSB, 1 at Biomedical Research Center. All labs will be open to the students for related teaching and research activities;
- **Each individual faculty's laboratories:** students in thesis track will be placed in each individual mentors' lab for their research thesis work.

3) Other Resources:

- Calder Medical Library access to PubMed, journals and books (see the ASSESSMENT OF LIBRARY COLLECTIONS)
- Senior Program Manager, full time, started July 5, 2016 (see Program Administration).

4. Curriculum Outlines:

1) Structure and unique aspects of the curriculum:

No undergraduate courses in skin biology and dermatological science currently exist at the UM. There are courses taught for medical students, residents and graduate

students in biochemistry and biology which may have some common elements, but the proposed master's courses will be advanced and specialized in skin and related fields. Another unique feature of this MS program is a training process for translational research in skin science and dermatology, which covers basic aspects of skin biology as well as clinical problems.

2) A summary list of proposed courses, lead instructor(s) and credits:

Fall 2017 (Aug. 22 –Dec. 14, 2017): 13 credits

Courses (Lead instructors)		Credits
DERM601	Introduction to Dermatology (Miteva/Lev-Tov)	1.0
DERM602	Skin Anatomy & Histology (Elgart/Romanelli/Badiavas)	2.0
DERM603	Skin Biology & Pathophysiology (Li/Pastar/Tosti)	2.0
DERM604	Microbiology of the Skin (Ajdic/Davis)	1.0
DERM605	Immunology of the Skin (Jimenez)	2.0
DERM606	Dermatoepidemiology (Kirsner/Hu)	2.0
DERM631	Advances in Dermatology (Cao-Wikramanayake)	1.0
DERM641	Frontiers in Sciences (Pastar/Miteva)	1.0
DERM661	Research Lab Rotation (elective) (Research faculty)	1.0

Spring 2018 (Jan. 17 –May 15, 2018): 13 credits

Courses (Lead instructors)		Credits
DERM607	Dermatopharmacology (Hu/Keri/Nichols)	2.0
DERM608	Photobiology and Photomedicine (Romanelli)	1.0
DERM609	Skin Carcinogenesis (Nouri)	2.0
DERM610	Clinical Skin Diseases (Keri/Schachner/Tosti)	2.0
DERM611	Visualizing the Skin (Cao)	2.0
DERM612	Grant Writing (Tomic/Badiavas)	1.0
DERM632	Advances in Dermatology (Cao-Wikramanayake)	1.0
DERM642	Frontiers in Sciences (Pastar/Miteva)	1.0
DERM662	Research Lab Rotation (elective) (Research faculty)	1.0

Summer 2018 (May 22 – Aug. 11, 2018): 7 credits

Courses (Lead instructors)		Credits
DERM613	Techniques in Skin Research (Badiavas/Davis/Tomic)	2.0
DERM614	Innovation in Dermatology (Yosipovitch)	1.0
DERM615	Dermatology Health Care Delivery (Burdick)	1.0
DERM633	Advances in Dermatology (Cao-Wikramanayake)	1.0
DERM643	Frontiers in Sciences (Pastar/Miteva)	1.0
DERM663	Research Lab Rotation (elective) (Research faculty)	1.0

Total Required Credits 30, Duration 12 months

Elective Credits 3 (a minimum 1 lab rotation is required for thesis track)

Note: In addition to the required 30 credit core courses, thesis students are required to take minimal 1 lab rotation prior to their lab selection for thesis by the end of 2nd semester.

Fall 2018 (Aug. – Dec. 2018): Thesis Track only

Courses (Lead instructors)		Credits
DERM700	Laboratory Research	6.0

Total Required Credits 37 for thesis student,

Duration 16 months

5. Admission Requirements

- A bachelor's degree from an accredited institution must be conferred before the intended start date.
- A cumulative grade point average (GPA) of 3.0 is required for candidates with bachelor's or Master's degrees. GPA is waived for candidates with MD or PhD.
- A GRE general test score of a minimum 60th percentile for the quantitative reasoning and analytical writing is required. GRE is not required for candidates with MD or PhD.
- English proficiency requirement: a Test of English as a Foreign Language (TOEFL) score of 80 for internet based test (iBT), 550 for paper based test (PBT) or 215 for computer based test (CBT) is required for those who graduated from foreign institutes.
- A personal statement including past experience and future career goals

6. Evaluation and Assessment

Direct measures will assess student learning by requiring students to demonstrate their knowledge and each course will contribute a graded independent portfolio assignment demonstrating how the students will contribute to the profession. In addition, a thesis student is required to have an oral defense and a written paper evaluated and approved by the thesis committee. The written paper should be of quality to be submitted for publication as first author or a co-author.

7. Administration

1) Program Director and Program Committees

- **Master Program Director:** faculty member (Dr. Jie Li)
- **Mater Program Committee:** 4-5 faculty members
 - Program Director: Jie Li, MD, PhD, Associate Professor (tenured)
 - Research faculty: Tongyu Cao, PhD, Associate Professor
Irena Paster, PhD, Assistant Professor
 - Clinical faculty: Mariya Miteva, MD, Assistant Professor
Keyvan Nouri, MD, Professor
- **Thesis Committees:** 3-5 faculty members
 - 1 basic science mentor
 - 1 clinical mentor
 - 1-3 faculty members (1 from outside)

2) Sr. Program Manager:

David Lewis, PhD (Curriculum & Instruction), MLIS, MA (ET), BS (biol), full time, started July 5, 2016. Dr. Lewis office is located at RMSB 2047 next to Dr. Li's office at RMSB 2049.

MISSION

Rationale

The last quarter century has produced revolutionary developments in Biomedical Science. From understanding the human genome to unleashing the potential of stem cells, from targeted therapies for diseases to personalized medicine, biomedical science has changed traditional medicine, and as a result has changed our thinking.

Part of the strategic vision of the University of Miami (UM) is to have nationally and internationally prominent graduate programs. The proposed Master degree earning program in Skin Biology and Dermatological Sciences would be the first of its kind in the United States, and will serve as the model Masters of Science program in the field. Those looking for advanced knowledge about the science and biology of the skin such as college graduates, medical students and medical school graduates (MDs), practicing dermatologists from foreign countries (oversea medical graduate), as well as those from skin care, pharmaceutical and cosmeceutical industries related to dermatologic, skin and skin care products frequently seek to enrich themselves with advanced knowledge and/or research training. Currently, no formal mechanism exists to accommodate such comprehensive science-based, non-clinical training in skin science, skin diseases and skin related research. This proposed Master of Science program will serve as a formal mechanism for those individuals and will fulfill an unmet needs in the skin biology and dermatological sciences.

Skin biology encompasses plethora of biological processes: development, perpetual differentiation and barrier maintenance, stem cell biology, tissue repair and regeneration, neogenesis, native and adapted immunity, and genetic disorders are a few, among many. Therefore, areas represented in our research base include aging, biochemistry, cell and stem cell biology, genomics, microbiology, inflammation, immunology, pharmacology as well as clinical research using areas of a variety of skin disorders, aging, aesthetics, cancer, and wounds as a clinical touchpoint, to name a few. In addition to causing suffering from its biological effects on health and wellbeing, skin disorders may cause a significant psychological and social impact. With rapid economic growth, improving the skin health and skin beauty, has naturally become one of the top goals in the pursuit of improved quality of life and happiness for consumers and for professionals.

Training in all these aspects is currently not provided by any single program in the US. Thus, a Master's program in Skin Biology and Dermatological Sciences will impart unique training and skill set. The business and growing need for knowledge about the skin exists. Health care providers, policy makers, research scientists, academic practices in the US and in the rest of the world, as well as makers of skin and skin care products from devices, drugs and cosmeceuticals and their workers, need such trained personnel. The proposed courses will also offer essential background of scientific knowledge, management and administrative skills that will be helpful for individuals desiring a Skin Sciences oriented career.

Purpose and Goals:

Our mission is to foster future generations of skin scientists, physician scientists and industrial leaders in skin sciences, skin care as well as skin related drug and device development. In alignment with the university's strategic vision, **the Goals of the programs** are:

(i) Train Master's students in a focused knowledge area of Skin Biology and Dermatological Science, (ii) Train Master's students in requisite research and research management skills, (iii) Generate revenue that will more broadly support the graduate program and overall departmental missions.

As stated above, developing a Master's program will provide a unique education training base, offering fertile ground and nurturing scientific environment resulting in a vibrant program that provides training for those graduates with bachelor, medical and graduate degrees, fellows, and those professionals in skincare industries that share common interests in understanding human skin biology and pathological basis of skin diseases.

Diversity: One of our priorities is to attract underrepresented minority students. Based on the population distribution in Miami area, we expect this program will attract students from diverse background including underrepresented minorities and create yet another path for them into advanced doctoral programs or professional careers.

The proposed Master's program will also be of great interests to international students, both clinicians and non-clinicians. The Department of Dermatology and Cutaneous Surgery is well respected with an excellent reputation nationally and internationally. The department has attracted clinicians and non-clinicians interested in the research training offered. Currently, there are more than 50 postdoctoral fellows, graduate and undergraduate students in the research training in the department. The program will provide a formal mechanism for teaching foreign medical graduates and other individuals who are interested in this unique and useful training for their careers.

Although there are Master's programs in Dermatology in Britain, Canada and China, no such program to the best of our knowledge is offered by any American universities. There is a Graduate Training Program in Dermatology at Boston University, however, the program is offered to international candidates with MD degree and with an emphasis in clinical training (<http://www.bumc.bu.edu/derm/training-programs-overview/international-graduate-training-program/admissions-and-graduation-requirements/>), distinct from our proposed program.

The proposed program is unique in its breadth and depth, covering not only basic science and laboratory techniques, but also aspects such as management skills, grant overview, regulatory issues and enterprise formation issues, and clinical problems as well. This program is consistent with the University's vision of building an academic and research profile consistent with the Association of American University (AAU) membership criteria by initiating nationally and internationally prominent graduate programs.

MARKET ANALYSIS/DEMAND

Demand for Masters level trained personnel exists in skincare industry, among policy makers and in regulatory bodies, in philanthropic missions/non-profit bodies, and in academic research and clinical practice settings. Individuals who are interested in a Master degree program in skin biology and dermatological sciences can be categorized as the following:

(a) Pharmaceutical, drug, device and cosmeceutical and skincare related company employees: Our department faculty are frequently sought for the advice on product design, development, clinical trials and evaluations. We have performed due diligence about job prospects. We have made inquiries in large established skin care pharmaceutical companies such as "3M", "Johnson & Johnson", "Procter & Gamble", "The LVMH Group", "Smith & Nephew", as well as smaller companies such as "HS Pharmaceuticals" and "Keraplast Technologies".

Skincare product companies seek personnel with special training in skin biology, skin related research knowledge (basic, translational and clinical) including trial design and management. The training program will fill a void for industry jobs that require training higher than at the undergraduate level and will be suitable for someone at the Master's level. Usually in industry, this results in recruitment of doctoral-trained personnel who are over-trained in some aspects but lack of comprehensive grasp for these kinds of jobs.

(b) Venture capitals and other funds: these groups are interested in recruiting personnel with training in grants, business, regulatory and management issues, and accordingly "problem-based learning" modules have been incorporated in the course curriculum.

(c) Philanthropic or non-profit organizations are in need of trained individuals as officers for their organizations. Currently, such personnel are not available with the appropriate field specific training.

(d) Non-terminal degree students. College and master degree graduates seeking to pursue knowledge and advanced training with the purpose of pursuing skin related careers.

(e) Pre- and post-residency medical graduates. Those seeking to advanced training with the purpose of pursuing a career in dermatology.

(f) International medical graduates: international dermatologists or non-dermatology physicians who wish to pursue an academic career in dermatology related health care. While numerous workshops are offered at various national/international scientific meetings, which are directed and or lectured by our faculty members and others, but a unified degree earning program does not exist. A great deal of interest exists from foreign countries in training their clinicians and medical graduates to improve their knowledge of basic skin biology as well as dermatology science, and to enable them to pursue research and become future leaders in their home countries after training.

ASSESSMENT OF LIBRARY COLLECTIONS

Students will have full access to all resources including PubMed online through Calder Medical Library at the University of Miami Miller School of Medicine. The Calder Library will suffice for reading materials and library support (an informal assessment from the library was sought which has indicated the sufficient reading materials exist in the Medical Calder Library (see attached email from JoAnn Van Schaik, MLS, Chair, Department of Health Informatics, Director, Calder Medical Libraries, and a list of skin-related journals and books).

APPENDIX

Program Budget

1. Projected Program Expenses
2. Projected Program Revenue

Other Supporting Letters

- Dr. Pedro Salas, MD, PhD, Professor of Cell Biology, Director of Program in Biomedical Sciences, UMMSM
- Dr. Erin Kobetz, PhD, MPH, Senior Associate Dean for Health Disparities, Associate Director, Sylvester Comprehensive Cancer Center, UMMSM
- Dr. Gregory Plano, PhD, Professor of Microbiology & Immunology, UMMSM
- Dr. Steven Ullmann, PhD, Professor & Chair, Department of Health Sector Management & Policy, School of Business Administration
- Dr. Anuj Mehrotra, PhD, Dean, School of Business Administration
- JoAnn Van Schaik, MLS, Chair, Department of Health Informatics, Director, Calder Medical Libraries (email memo)

List of skin-related books and journals

Biographies of core graduate faculty

UNIVERSITY OF MIAMI
MILLER SCHOOL
of MEDICINE

PIBS



Program in Interdisciplinary Biomedical Sciences

September 6, 2016

Jie Li, MD, PhD, Associate Professor
Department of Dermatology and Cutaneous Surgery
University of Miami Miller School of Medicine
1600 NW 10th Ave, RMSB 2049, Miami, FL 33136

Dear Dr. Li,

It was a pleasure meeting with you. I am happy to support your proposal to create a new Master Science program in Skin Biology and Dermatological Sciences. While some of your graduates may pursue their MD degrees, many will want to continue their academic careers upon graduation. So I believe this program will provide a valuable pathway toward the PhD. The Program in Interdisciplinary Biomedical Sciences (PIBS) has been working together with the Dermatology Department and faculty for a few years already. Some PIBS courses or education seminars could be made available to your program students after consultation with the Operations Committee and the Dean for Graduate Students.

Thank you for your continued support of Education here at the Miller School of Medicine. I wish you well and a successful program.

A handwritten signature in blue ink, reading 'Pedro J. Salas'.

Pedro J. Salas, M.D., Ph.D.
Professor of Cell Biology
Director, Program in Biomedical Sciences
Univ. of Miami Miller School of Medicine



July 29, 2016

Jie Li, MD, PhD
Associate Professor
Department of Dermatology and Cutaneous Surgery
University of Miami Miller School of Medicine

Dear Dr. Li,

It would be my pleasure to participate in the Master of Science in Skin Biology and Dermatological Sciences Program. I would be happy to serve as a guest lecturer for a session on "Key aspects of clinical epidemiology" for the course of Dermato-epidemiology.

Sincerely,

A handwritten signature in black ink, appearing to read 'Erin Kobetz'.

Erin Kobetz, PhD, MPH
Associate Professor, Department of Medicine
Senior Associate Dean for Health Disparities
Associate Director, Sylvester Comprehensive Cancer Center
University of Miami Miller School of Medicine

UNIVERSITY OF MIAMI
MILLER SCHOOL
of MEDICINE



July 11, 2016.

Jie Li, MD, PhD, Associate Professor
Department of Dermatology & Cutaneous Surgery
University of Miami Miller School of Medicine
1600 NW 10th Ave,
Miami, FL 33136

Dear Dr. Li,

I agree to participate in the Skin Masters program course entitled "Microbiology of the Skin". I will give one lecture on *Yersinia pestis* infections.

Sincerely,

Gregory Plano, PhD
Professor
Department of Microbiology and Immunology
University of Miami Miller School of Medicine
1600 NW 10th Ave,
Miami, FL 33136



Department of Health Sector Management and Policy
P.O. Box 248223
Coral Gables, FL 33124

Ph: 305-284-9920
Fax: 305-284-5161
sullmann@miami.edu

July 8, 2016

To Whom It May Concern:

Please note that I am happy to support and participate in the Skin MS Program at the Department of Dermatology & Cutaneous Surgery, University of Miami – Miller School of Medicine; and provide lecture (s) in the course on “Dermatology Health Care Delivery”, “Health Care Organization, Economics and Ethics” and “Essentials of Health Care Administration in Skin Care”. I find this focus to be very important.

Please do not hesitate in contacting me if I can provide additional information.

Best regards,

A handwritten signature in blue ink, appearing to read 'S. Ullmann'.

Steven G. Ullmann, Ph.D.,
Professor and Chair
Department of Health Sector Management and Policy
Director, Center for Health Sector Management and Policy
Special Assistant to the Provost
University of Miami
SGU/cc

UNIVERSITY OF MIAMI
SCHOOL of BUSINESS
ADMINISTRATION



Dean Anuj Mehrotra
5250 University Drive, Jenkins 219
Coral Gables, FL 33146

Phone: 305-284-6515
Fax: 305-284-6526
<http://www.bus.miami.edu>

August 16, 2016

Jie Li, MD, PhD, Associate Professor
Department of Dermatology & Cutaneous Surgery
University of Miami Miller School of Medicine
1600 NW 10th Ave, RMSB 2049, Miami, FL 33136

Dear Dr. Li,

I am pleased to provide a letter of support for your proposed Master of Science in Skin Biology and Dermatological Sciences.

The School of Business and the School of Medicine have a long history of collaboration and I'm sure Dr. Ullmann's involvement in your program will be of great benefit to your graduates. Health care is a very important sector in the United States, so a background in Health Care Policy and Administration will help your graduates succeed.

Warm regards,

A handwritten signature in black ink, appearing to read 'Anuj Mehrotra'.

Anuj Mehrotra, Ph.D.
Dean, School of Business Administration
Professor, Management Science
5250 University Drive
Jenkins, Office 219
Coral Gables, FL 33146

Li, Jie

From: Van Schaik, JoAnn
Sent: Tuesday, July 26, 2016 4:30 PM
To: Li, Jie
Cc: Lewis, Dave
Subject: skin related journals--lists
Attachments: Dermatolgy Skin books and journals.xlsx

Hi Jie,

Attached please find an Excel spreadsheet with three tabs--one for e-books, one for currently subscribed e-journals, and one for print books. The Library has no more print journal subscriptions; they are all electronic.

Please let me know if you need anything else.

Best regards,

JoAnn

JoAnn Van Schaik, M.L.S.
Interim Chair, Department of Health Informatics
Interim Executive Director of Libraries
Louis Calder Memorial Library
Miller School of Medicine
University of Miami
P.O. Box 016950 (R-950)
Miami, FL 33101

JVanSchaik@med.miami.edu

305-243-6441 (Voice)

305-325-8853 (Fax)

From: Li, Jie
Sent: Tuesday, July 26, 2016 11:40 AM
To: Van Schaik, JoAnn <JVanSchaik@med.miami.edu>
Cc: Lewis, Dave <rdl53@miami.edu>
Subject: RE: skin related journals

Ok, thank you so much, and looking forward to!
Jie

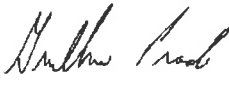
From: Van Schaik, JoAnn
Sent: Tuesday, July 26, 2016 11:31 AM
To: Li, Jie <j.li@med.miami.edu>



MEMORANDUM

DATE: February 27, 2017

TO: Tomas Salerno
Chair, Faculty Senate

FROM: Guillermo ("Willy") Prado 
Dean, The Graduate School

SUBJECT: Master of Science degree in Skin Biology and Dermatological Sciences

The Department of Dermatology and Cutaneous Surgery at the Miller School of Medicine submitted a proposal for a Master of Science degree program in Skin Biology and Dermatological Sciences. The proposal was discussed at the meeting of the Graduate Council on Tuesday, February 21, 2017, and was approved by those present.

cc: Laurence Gardner, Interim Dean, Miller School of Medicine
Zafar Nawaz, Senior Associate Dean, Graduate and Postdoctoral Studies
Jie Li, Associate Professor, Department of Dermatological and Cutaneous Surgery
Office of Planning, Institutional Research and Assessment