

## REQUIRED COURSES

1. Molecular Medicine I & II
2. Molecular Genetics of Diseases
3. Molecular Pharmacology and Toxicology
4. Molecular Epidemiology and Biostatistics
5. Medical Informatics and Bioinformatics
6. Ethics in Molecular Medicine
7. Research Topics in Molecular Medicine

## SCHOLARSHIPS AND GRANTS

1. SCHOLARSHIP GRANTS inclusive of tuition, laboratory and miscellaneous fees may be granted upon evaluation of the applicant.
2. THESIS GRANT will be given to any student whose thesis is part of an ongoing research program of the medical center, provided that the proposal has gone through the review process of the Research and Biotechnology Division.
3. DOST SCHOLARSHIPS under the Accelerated Science and Technology Human Resources Development Program Graduate Science and Technology Scholarships are available to qualified students. Prior endorsement from the Director of the M.S. Molecular Medicine Program may be given upon request.

## IMPORTANT ANNOUNCEMENT

The MS Molecular Medicine Program is now accepting applications for SY 2010-2011.

The Early Application deadline is on  
31 January 2010.

Download application forms at:  
<http://stlukesmedcollege.edu.ph>



# Master of Science in MOLECULAR MEDICINE



### For correspondence and information, please contact:

The Registrar

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Joint Program of the  
St. Luke's College of Medicine WHQM  
and the  
Research and Biotechnology Division  
St. Luke's Medical Center □ Quezon City



## INTRODUCTION

Molecular Medicine stems from knowledge gained from basic science and applied biomedical research. This new medicine has produced the latest biotechnologies, such as, cell-based therapies, gene therapy, targeted therapies, biomarker technology, molecular diagnostics, pharmacogenomics and personalized medicine. The curriculum of this M. S. Molecular Medicine course includes this new knowledge supplemented by background courses on the fundamental science behind it.

Through this program, the St. Luke's College of Medicine will upgrade skills for the application of molecular medicine in the clinical setting, through a unique opportunity for training in the fully-equipped research laboratories of the St. Luke's Research and Biotechnology Division. It will also strengthen the capabilities of the current crop of medical practitioners and allied health professionals towards a new way of doing medicine. Moreover, it will provide an opportunity for medical educators to obtain a post-graduate degree, thus improving the academic profile of our medical schools.

## DESCRIPTION OF PROGRAM

This course is designed for individuals engaged in basic or applied sciences interested in pursuing a research path in translational medicine. As early as possible, students shall be exposed to the various research programs of the Research and Biotechnology Division, so that during their second year in the program, they are able to start their independent research under the guidance of a thesis adviser. Research grants will be available to thesis students who opt to work in conjunction with existing multidisciplinary research groups of the Research and Biotechnology Division.

## OBJECTIVES

The objectives of the program are:

- ❖ To give students a firm foundation in the biomedical sciences and relevant emerging technologies
- ❖ To provide rigorous training in a broad spectrum of applications in molecular medicine such as stem cell technology, point of care diagnostics, pharmacogenomics, medical biotechnology, targeted therapy, molecular diagnostics and genomic medicine
- ❖ To develop a highly trained manpower base for Molecular Medicine including clinicians, med techs, scientists, medical faculty, and other healthcare professionals

## ADMISSION REQUIREMENTS

1. The applicant should submit the following:
  - Letter of application
  - Completed Application Form
  - Transcript of Records
  - Diplomas(s)
  - 2 letters of recommendation
2. Applications shall be processed by the **Admission Committee on MS Molecular Medicine**.
3. Graduates of any of the following courses may apply:
  - Doctor of Medicine
  - Doctor of Veterinary Medicine
  - Doctor of Dentistry
  - Bachelor's Degree in Science with at least the following:
    - 25 units Life Sciences
    - 8 units Mathematics
    - 5 units Physics

## REQUIREMENTS FOR MSc DEGREE

- Completion of: 18 units of core courses
  - 6 units of elective
  - 1 unit seminar
  - 6 units thesis
    - Successful defense of MS thesis
    - Acceptance of bound thesis
- \* To accommodate working students, classes meet once every week and are held after 5PM on weekdays, and at 9AM or 1PM on Saturdays.

## RESEARCH AREAS

- ❖ **Center for Stem Cell Research**
  - Regenerative Medicine
  - Stem Cell technology as applied to diseases
- ❖ **National Center for Human Genomics (Phils.)**
  - Genomics and Biomarkers for various diseases
  - Molecular Epidemiology
  - Bioinformatics and Personalized Medicine
- ❖ **Center for Drug Discovery and Development**
  - Toxicology and Drug Discovery
  - Pharmacogenomics and Animal Models
- ❖ **Molecular Diagnostics**
  - Current and emerging technologies for molecular diagnostics
  - Applications in Infectious Diseases, Genetic Testing; Molecular Oncology Tests

## TUITION and FEES

The expected expenses will be the following:

- ❖ Tuition: PhP 2,500 per unit (lecture and computer laboratory) and PhP 4,500 per unit (research laboratory)
- ❖ School fees: PhP 6,410 for the first semester and PhP 3,660 for the second semester which includes use of library and school facilities and health insurance

These should be paid upon registration at the beginning of the every semester.