

HHMI



Howard Hughes Medical Institute
Vanderbilt University Medical Center

Certificate Program in Molecular Medicine





We are drowning in information, while starving for wisdom. The world henceforth will be run by synthesizers, people able to put together the right information at the right time, think critically about it, and make important choices wisely.

E. O. Wilson

Certificate Program in Molecular Medicine



To train a cadre of basic science researchers
with experiences that provide:

- Knowledge of clinical medicine
- Skills for effective communication with clinicians
- Productive research collaborations with clinicians

Certificate Program in Molecular Medicine



Integration of basic science and clinical interests

- Mentoring and Guidance
 - *Basic Science Mentor*
 - *Clinical Mentor*
- Oversight
 - *Program Committee*

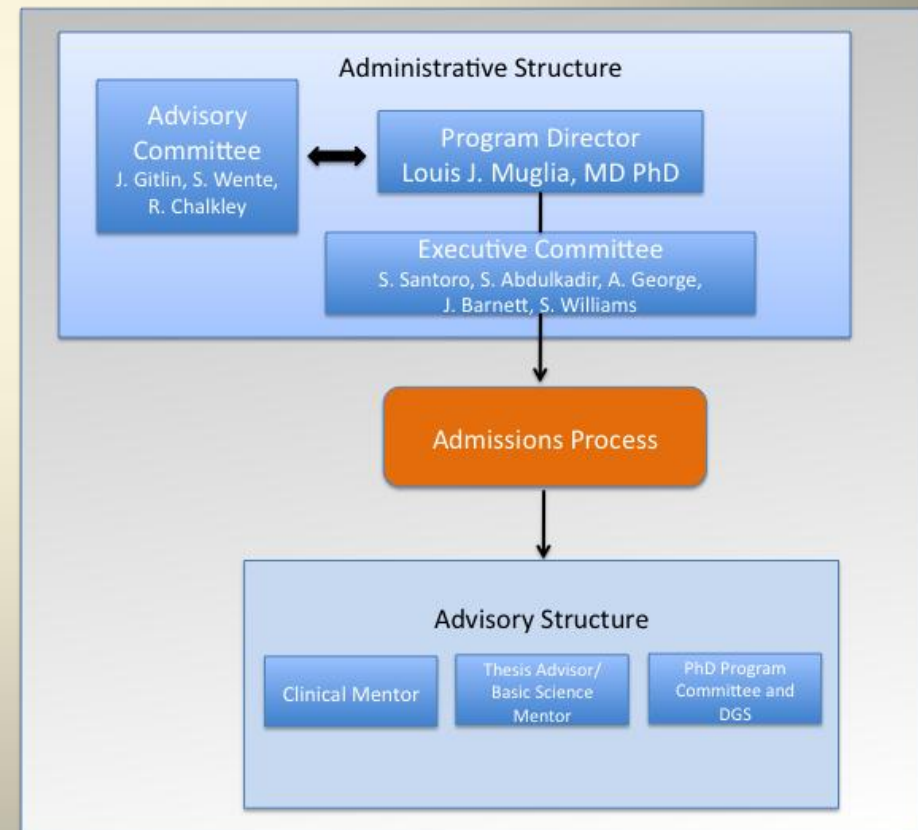


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Advisory Structure

- Basic Science and Clinical Mentors
 - *Regular meetings to discuss plans and review progress*
 - *Choice of didactic and clinical program components*
- Program Committee
 - *Semi-annual meetings with trainee and both mentors*



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Training Requirements

- **Didactic Courses**
 - *Modular structure*
 - *Flexible, self-created units*
- **Seminar Series**
 - *Review/Update Forum*
 - *Research Presentation*
 - *Visiting Scientists*
- **Clinical Conferences**
 - *Department Grand Rounds*
 - *Case Conferences*
 - *Tumor Boards*
- **Physician/Patient Observations**
 - *Educational Rounds*
 - *Ambulatory Clinics*
 - *Imaging*

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Training Requirements

Individual Selections

100 contact hours
from over 30 courses

20 contact hours of
physician-patient
interactions

15 contact hours of
clinical conferences

Cohesion Events

4 introductory core
content sessions

Monthly seminars

Joint annual retreat
with MD, PhD
students

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Administration

Web-based course management and communication tool

- Trainee Module
 - Select or create didactic units
 - Enter details of clinical experiences
 - Enter details of clinical conferences attended
 - Keep track of pending and completed program components

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Administration

Web-based course management and communication tool

- Mentor Module
 - Notification of trainee's component selection
 - Approve didactic units created or selected by trainee
 - Review details of clinical experiences by trainee
 - Review details of clinical conferences attended by trainee
 - Review pending and completed program components



VANDERBILT

Biomedical Research
Education & Training



The HHMI/VUMC Certificate Program in Molecular Medicine

Guest, Welcome to The HHMI/VUMC Certificate Program in Molecular Medicine

Home

Didactic

Clinical
Conference

Rounding
with a
Physician

Status Summary

	Hours Completed	Hours Registered	Hours Remaining
Didactic	50	13	37
Clinical Conference	8	3	4
Rounding	10	2	8



Register for Program
Component

Permissions Status

Messages

Component	Title	Message	From	Date/Time
Didactic	My Pharmacology Unit	Approved	Mike Shannahan <i>(Clinical Mentor)</i>	4/1/2009
Rounding with a Physician	John Doe <i>(Plastic Surgery)</i>	Completed	Program Administration	3/15/2009
Rounding with a Physician	Jane Black <i>(Plastic Surgery)</i>	Completed	Program Administration	3/15/2009
Rounding with a Physician	Jane Black <i>(Plastic Surgery)</i>	Approved	Program Administration	3/10/2009
Clinical Conference	VDDRC Seminar Series Presentation	Approved	David Beckham <i>(Research Mentor)</i>	3/1/2009
Clinical Conference	Pediatric Grand Rounds	Approved	David Beckham <i>(Research Mentor)</i>	2/10/2009
Clinical Conference	Pediatric Grand Rounds	Completed	Program Administration	2/12/2009
Didactic	Autonomic and Cardiovascular Unit	Rejected	Mike Shannahan <i>(Clinical Mentor)</i>	2/17/2009

Certificate Program in Molecular Medicine

Home

Didactic

Clinical
Conference

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Instructions

1. Please select the course(s) you wish to register for by clicking on the + button.
2. Once you submit your choices your research and clinical mentors will be notified and will be asked to approve your course selections.
3. Once both mentors approve your registration, please contact the course administrator to inform them of your intention to attend. You will also be responsible for having your attendance record signed by the instructors.
4. If one or both mentors reject your course selection, please submit alternative choices after consultation with them.

#7218 (32 total hours)

+ Cardiovascular Pharmacology
#7219 (34 total hours)

+ Pathobiology of Early Human Development
#7311 (15 total hours)

+ Basic Responses
#Path 351-7312 (6 total hours)

+ Pathology of the Cardiovascular System
#Path 351-7313 (9 total hours)

+ Cancer Metastasis
#Path 351-7314 (9 total hours)

Lecture	Hours
Basic introduction to metastasis	1.5
Clinical relevance, case study- Metastasis in the clinic.	1.5
Molecular mechanisms of adhesion and local dissemination	1.5
Molecular mechanisms-The actin cytoskeleton and invasion	1.5
Molecular mechanisms- Tissue specific metastasis and the metastatic niche	1.5
Journal Club	1.5

+ Pathogenesis of Obesity
#Path 351-7315 (9 total hours)

+ Neuropathology
#Path 351-7316 (9 total hours)

submit cancel

Cancer Metastasis

Lecture	Hours
Basic introduction to metastasis	1.5
Clinical relevance, case study- Metastasis in the clinic.	1.5
Molecular mechanisms of adhesion and local dissemination	1.5
Molecular mechanisms-The actin cytoskeleton and invasion	1.5
Molecular mechanisms- Tissue specific metastasis and the metastatic niche	1.5
Journal Club	1.5



Certificate Program in Molecular Medicine



Eligibility and Application

- Any biomedical department or training program at Vanderbilt
 - Must be in a Ph.D. track program
 - Must have selected thesis mentor
- Online application available in summer
 - Statement of Purpose
 - Description of thesis research and proposal for integration with clinical experience
 - Names of three potential clinical mentors
 - Letter of support from thesis mentor

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More Information

- Visit our website for updates
- Join the CPMM mailing list
- Online application available in summer
- Contact Program Leadership
 - Dr. Lou Muglia (Director)
 - Dr. Joey Barnett (co-Director)
 - Dr. Sarki Abdulkadir (co-Director)
- Contact Program Administrator
 - Nadia Ehtesham (BRET Office)