

# PROSPECTUS 2017/18

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 **CYPRUS SCHOOL**  
**of molecular medicine**

 **THE CYPRUS INSTITUTE OF**  
**NEUROLOGY & GENETICS**

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## Message from the Provost

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Professor Leonidas A. Phylactou

*Provost of the Cyprus School  
of Molecular Medicine*



Dear Prospective Student,

I would like to introduce you to the Cyprus School of Molecular Medicine (CSMM) which is the postgraduate school of The Cyprus Institute of Neurology & Genetics. The CSMM has successfully completed five years of operation, with 4 PhD graduates and 84 MSc graduates.

The Cyprus Institute of Neurology & Genetics (CING), as a Center of Excellence and a Referral Center in basic and applied research in biomedical and clinical sciences combines services, research and education so as to produce novel knowledge in biology and diseases and upgrade the quality of life of people. In its 26-year history, the CING has proven the implementation of its mission and established its presence and reputation not just in our country, but also internationally.

The CSMM functions as a catalyst for the implementation of the Institute's objectives by contributing to the research output and clinical applications. Our postgraduate programs give our students a unique education in the areas of neurology, genetics and biomedical sciences with direct application in the area of Health. Like CING, CSMM is a School based on international standards of excellence. The CSMM was established with the purpose of providing high standard education in biomedical sciences, by offering its students a unique environment for Masters and Doctoral studies. This is achieved by the CSMM's highly qualified Professors and Lecturers who are ready to impart relevant expert knowledge to students.

Our academic programs are demanding and accept the top students in Cyprus and internationally. Our programs are designed to train students who are committed to become active and successful scientists in the years to come. Through our academic programs, our students learn how to weave together theory and practice, since the programs combine taught courses and research in our highly specialized laboratories to experience in real work from first-hand. Inevitably, our students contribute and play a vital role in our research programs. Our students represent our next generation of scientists.

We, at the CSMM, are committed to ensuring quality and rigorous academic programs that will challenge our students. I invite you to explore our academic programs described in the Prospectus. You may also visit our website for more information. You can always get in touch with our Faculty and the Education Office for assistance.



## Message from the Dean

Professor Kyriacos Kyriacou

*Dean of the Cyprus School of Molecular Medicine*

Dear Prospective Students,

It is with great pride that I welcome you to the Cyprus School of Molecular Medicine, the brain child of the Cyprus Institute of Neurology and Genetics. The CSMM was established in 2012 and with four successful years behind us we are entering the fifth year of operations, fully committed and determined to deliver a high calibre education to our growing student community. The highlight of 2016 was the graduation of the first PhD graduates, which was a milestone event in both the history of the CSMM and the CING.

A unique characteristic of all CING departments is that their activities are based on the following three pillars: the delivery of specialized diagnostic services, the execution of competitive research and the organization of educational programs. The CSMM provides the educational platform through which the substantial experience gained by the CING personnel in both the diagnostic and research fields, is transmitted to the students. The CSMM programs offer a unique teaching and learning environment that stimulates and benefits the students. Thus the CSMM provides the springboard, for training the next generation of scientists in an environment that fosters excellence and ensures a high calibre of education. Already highly trained students have graduated from the CSMM and many of them have been employed in the local labour market despite the economic recession. The experience gained while at the CSMM prepares our graduates for employment in a competitive and challenging environment.

Please take time to go through our prospectus and you will soon appreciate that our innovative MSc and PhD programs, cover a wide spectrum of interesting disciplines, which are organized around taught courses and research in our highly advanced laboratories. The CSMM programs are specialized, but within each program there is multidisciplinary and complementarity in an effort to expose you to

the latest advances in the field but at the same time inform you about the challenges that lie ahead. Our academic staff is experienced and passionate about their work so we promise you a high calibre education that will reflect on your life and shape your future career. A unique feature of our programs is that students are exposed to the everyday uses of new knowledge and thus obtain first-hand experience on real life diagnostic and research applications. Two exciting new additions to our existing programs of Medical Genetics and Molecular Medicine are the programs in Neuroscience and Biomedical Research, giving prospective students a selection of 7 post-graduate programs to choose from. Students benefit from the vast experience gained by the CING staff/CSMM Faculty, who have been working for over 25 years in these challenging fields. For further information about our programs do not hesitate to contact our very able staff in the academic office.

One new and exciting development is the approval for constructing a new Research and Innovation Centre next to the CING, which secures a bright future for both CSMM and the Institute. This makes the function of CSMM even more important as it is involved in training the new generation of scientists thus securing a bright future for CING.

I invite you to join the CING community and experience first-hand the professional, stimulating and challenging environment in which we operate. It is an environment based on academic excellence which ensures that all our efforts are invested in offering quality education and specialised services, which in turn improve the quality of life of Cypriot citizens.

My sincere wishes for a fruitful continuation of your studies and career!

## About the CING

Investing a quarter of a century of research excellence,  
in training the new generation of scientists



The Cyprus Institute of Neurology and Genetics (CING), which is the parent organisation of the Cyprus School of Molecular Medicine, was established in 1990, as a bi-communal, non-profit, private, academic, medical organisation. The Vision of the CING is to function as an International Centre of Excellence and a Regional Referral Centre in the areas of Neurology, Genetics, Biomedical, Medical and other similar and related Sciences.

The Mission of the CING is to develop and provide high level medical and clinical laboratory services, organise and pursue advanced research programs and provide education in the areas of Neurology, Genetics, Biomedical, Medical and other similar and related Sciences.

Cyprus is known to have an increased frequency of inherited disorders, which place a heavy burden on the patients' families and the Government. The CING provides specialised services and research which aim towards early detection and prevention of disease, the provision of high quality medical services and improvement in the quality of life of the community. The Institute is dedicated to lessening the suffering of patients and their families and preventing diseases through patient care, research, education and prevention programs. As a result, it has over the past quarter of a century, established departments within its premises which are each dedicated to specific research areas dealing with neurological and genetic conditions such as muscular dystrophy, multiple sclerosis, epilepsy, chromosomal abnormalities and all other aspects of molecular biology and genetics such as thalassaemia, molecular virology, mental retardation,

cardiovascular disease, stroke, cystic fibrosis and neurogenetics. Moreover, CING plays a key role in the fight against crime by providing specialised DNA services to the police authorities and expert court testimony for criminal and civil investigations. The Institute provides services, upon request, to all Doctors, Clinics, Hospitals, Lawyers and the Police Authorities.

A unique feature of the Institute is the combination of services, research and education. In biomedical sciences and medicine the ultimate aim of research is to solve medical problems and improve the health and quality of life of the community. Services, in turn provide opportunities for research.

EXCELLENCE

SOCIAL SERVICE

PROFESSIONALISM

INNOVATION

TEAMWORK

**CING VALUES**



Cyprus School of Molecular Medicine  
**About the CING**



HR EXCELLENCE IN RESEARCH



The bigger the volume of services, the greater the opportunity for the scientists to come in contact with clinical problems; also the bigger the volume of material available for research, the higher the possibilities of attracting major research grants. With major grants, better solutions to clinical problems can be found, resulting in the provision of higher quality services, as well as the creation of an innovative educational environment for students. Thus, services, research and education enter into a positive feedback loop.

The Institute's personnel and the School's Faculty is comprised of leading scientists and clinicians, who are devoted to the well-being of the local, regional and international communities. Both the CING and the CSMM have established partnerships with outstanding international institutions and welcome students, faculty and staff of all nations. The CING is considered to be the most advanced tertiary medical academic center in Cyprus in the health sector and provides education and training to doctors, scientists, students and paramedical personnel.

## About the CSMM

Cyprus School of Molecular Medicine

The Cyprus Institute of Neurology and Genetics (CING) established its postgraduate school, the Cyprus School of Molecular Medicine (CSMM) in September 2012, aimed at students with research interests applicable to the Institute's activities. The postgraduate school is organised as a distinct entity within the CING. CSMM programs are headed by the Provost of the School who is also the Chief Executive Medical Director and the Chairman of the Scientific Council of the Cyprus Institute of Neurology and Genetics.

The CSMM provides an unrivalled educational experience to the highest achieving students, who can expect to be taught and mentored by the leading Biomedical Scientists and Neurologists in Cyprus, while also working alongside them in their respective laboratories.

### What you gain as a CSMM student

Upon completing their selected program of study, graduates of the CSMM can expect to have acquired in-depth knowledge of topics covered by the specialist Departments and Clinics of the CING, while also advancing their analytical skills, comprehension of problems and ability to propose innovative solutions, thus contributing to the international scientific community. The vibrant environment of the CING, within which the CSMM is housed, provides the ideal setting for students to experience and benefit from the 3-pillars working seamlessly together to form a positive feedback loop: SERVICES (day clinics and in-patient ward), RESEARCH (6 Clinical Sciences departments and 9 Biomedical Sciences departments) and EDUCATION (4 MSc programs, 3 PhD programs and Executive/Professional Education Courses).

It is the goal of both the Institute and the School for our students to acquire, not only academic proficiency and critical thinking while at the CSMM, but also valuable transferable skills. Therefore as a student of the CSMM you can expect to acquire skills which will help you to stand out and give you the best possible chance of succeeding in your future plans as a scientist, researcher, academic, or otherwise. In an increasingly competitive field, it is vital to ensure that in addition to your academic competencies, you are also gaining these essential skills. For this reason each of our programs and their respective courses have been built to include practical and crucial skills, such as the ability to work diligently and productively on challenging projects, the ability to set goals and successfully manage a study/laboratory schedule, teamwork skills, good communication skills and effective communication of ideas both verbally and in writing. As an employer, the CING also contributes to the professional development and career advancement of CSMM students.

## Objectives of the School

**To establish** an educational center of excellence for postgraduate programs of international standing and reputation

**To attract and educate** students who can engage in competitive work and to enable them to be immediately inducted into the local and international workforce, scientific and academic community, so that they can make valuable contributions to the global socioeconomic landscape

**To produce** high quality research output from students' projects (PhD programs) which will contribute towards the improvement of the quality of human life

**To challenge** students with a wide variety of concepts and approaches and enforce international standards of excellence in the fields of Medicine and Biomedical Sciences

**To offer** exceptional curricula for its students which will provide the theoretical and applied knowledge necessary to achieve international caliber doctoral research

**To cooperate** with high level international research and educational centers and to promote cooperation and understanding through education, research and innovation

**To attract** excellent local and international students through the international visibility of the School's faculty, staff, and students

**To develop** effective communication skills for all its students and to help the students exercise these skills in a competitive environment

**To promote** the School as a center of excellence for students and scholars internationally.



## Programs of Study

The Cyprus School of Molecular Medicine of the Cyprus Institute of Neurology and Genetics has been established and operates according to the laws of the Ministry of Education and Culture of the Republic of Cyprus.

The accreditation of the four postgraduate programs of the CSMM, listed below, has successfully been passed via the Council of Educational Evaluation Accreditation (CEEA) and the Ministry of Education and Culture of the Republic of Cyprus, with effect as of the date of establishment of the School:

MSc Molecular Medicine, MSc Medical Genetics, PhD Molecular Medicine, PhD Medical Genetics.

Continuing our dynamic expansion, three additional programs were added in September 2015: MSc Neuroscience, MSc Biomedical Research, PhD Neuroscience. At the time of publication of this prospectus, these programs were undergoing the accreditation process, with effect as of the date of the addition of the programs.

The programs of the School begin in September of each year.

## Infrastructure

The Cyprus Institute of Neurology and Genetics has state-of-the-art equipment in all its Departments and Clinics which is used for specialised diagnostic services and research activities. Some of the equipment has been purchased as a result of awards from competitive research funding and is unique in Cyprus. Students carry out their research projects in the facilities of the various Departments and Clinics.

The list of equipment available is extremely long and for practical purposes, a summary is presented below.

PCR machines, real-time PCR machines, heating and cooling incubators, regular and deep freezers, light microscopes, fluorescence microscopes, time-lapse microscope, confocal microscope, electron microscope, flow cytometer, cell incubators, cell culture biological cabinets, chemical cabinets, DNA microarray facility, automated DNA sequencing facility, mouse facility, laser capture microdissector, automated DNA extractor, benchtop centrifuges, ultracentrifuge, automated nucleic acids imaging facility.

Recently the above list has been enriched with high throughput analytical equipment including Next Generation Sequencing (NGS) equipment for DNA analysis as well as M Mass Spectrometer platforms MS/MS for analysis and identification of proteins.





# Program Titles Awarded

## MSc Programs

**Master in Science  
(MSc) Molecular Medicine  
(accredited)**

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**Master in Science  
(MSc) Medical Genetics  
(accredited)**

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**Master in Science  
(MSc) Neuroscience  
(new\*)**

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**Master in Science  
(MSc) Biomedical Research  
(new\*)**

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\*New program undergoing the accreditation process

## Executive/Professional Courses

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Information regarding the Executive/Professional courses offered by the CING is available on request.

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## PhD Programs

**Doctor of Philosophy  
(PhD) Molecular Medicine  
(accredited)**

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**Doctor of Philosophy  
(PhD) Medical Genetics  
(accredited)**

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**Doctor of Philosophy  
(PhD) Neuroscience  
(new\*)**

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# MSc Programs

MSc Molecular Medicine | MSc Medical Genetics  
\* MSc Neuroscience | \*MSc Biomedical Research

## General Information

The MSc programs are structured on a combination of taught courses (including lectures and tutorial sessions for each course on a weekly basis) and a research or a library project. MSc Students are inducted into the research departments of the Cyprus Institute of Neurology and Genetics while simultaneously attending core and elective courses.

Successful students must pass all course examinations and the MSc Thesis Examination in order to be awarded an MSc degree.

### *MSc Molecular Medicine*

### *MSc Medical Genetics*

### \**MSc Neuroscience*

A minimum number of 50 ECTS from the taught courses of the program and a minimum number of 40 ECTS from the research or library project must be completed while enrolled on one of the CSMM's MSc programs. Students will take compulsory and elective courses.

**Molecular Medicine / Medical Genetics programs:** 4 mandatory courses and 1 elective course

**Neuroscience program:** 3 mandatory courses and 2 elective courses.

### \**MSc Biomedical Research*

A minimum number of 20 ECTS from the taught courses of the program and a minimum number of 70 ECTS from the research project must be completed while enrolled on the MSc Biomedical Research program. Students will take elective courses.

The above criteria apply to the current programs of study but may be subject to change for future programs.

*Language of instruction: English*

## General Schedule

### **Full-Time (12 months)**

Taught Courses & Research or Library Project

### **Part-Time (up to 24 months)**

Minimum of one course per semester, among those offered in the referred semester

### **AUTUMN SEMESTER (30 ECTS)**

#### *MSc Molecular Medicine*

#### *MSc Medical Genetics*

#### \* *MSc Neuroscience*

2 Mandatory Courses and 1 Elective Course

#### \* *MSc Biomedical Research*

2 Research Modules and 1 Elective Course

### **SPRING SEMESTER (30 ECTS)**

#### *MSc Molecular Medicine*

#### *MSc Medical Genetics*

2 Mandatory Courses and 1 Research or Library Module

#### \* *MSc Neuroscience*

1 Mandatory Course, 1 Elective Course and 1 Research or Library Module

#### \* *MSc Biomedical Research*

2 Research Modules and 1 Elective Course

### **JUNE – SEPTEMBER (30 ECTS)**

#### *MSc Molecular Medicine*

#### *MSc Medical Genetics*

#### \* *MSc Neuroscience*

Research or Library Module, project preparation and thesis examination

#### \* *MSc Biomedical Research*

Research Module, Project preparation and Thesis examination

\* *New program undergoing the accreditation process*

# PhD Programs

PhD Molecular Medicine | PhD Medical Genetics | \*PhD Neuroscience

## General Information

Year 1 of the CSMM PhD programs is structured on a combination of taught courses (including lectures and tutorial sessions for each course on a weekly basis) so that PhD students obtain the necessary theoretical knowledge prior to proceeding with their research projects during years 2-4, based in the laboratories of the Cyprus Institute of Neurology and Genetics.

Successful students must pass all course examinations, the PhD Thesis Examination and have at least one first author publication in a peer-reviewed journal to be awarded a PhD degree.

A minimum of 50 ECTS from the taught courses of the programs and 190 ECTS from the research part of the programs must be completed while enrolled on one of the CSMM's PhD programs. During year 1 of the program, students will take compulsory and elective courses.

The above criteria apply to the current programs of study but may be subject to change for future programs.

*Language of instruction: English*

## General Schedule

### Year 1

#### AUTUMN SEMESTER (30 ECTS)

*PhD Molecular Medicine*

*PhD Medical Genetics*

*\*PhD Neuroscience*

2 Mandatory Courses and either 1 Elective Course or 1 Research Module

#### SPRING SEMESTER (30 ECTS)

*PhD Molecular Medicine*

*PhD Medical Genetics*

2 Mandatory Courses and either 1 Elective Course or 1 Research Module

*\*PhD Neuroscience*

1 Mandatory Course and 2 Elective Courses or 1 Mandatory Course, 1 Elective Course and 1 Research Module

### Research: Years 2– 4

**Year 2 Total:** 60 ECTS = PhD Research Part II 50 ECTS  
PhD Thesis Progress Report and Examination 10 ECTS

**Year 3 Total:** 60 ECTS = PhD Research Part III

**Year 4 Total:** 60 ECTS = PhD Research Part IV 30 ECTS  
PhD Thesis and Examination 30 ECTS

*In the event that students require additional time to complete their work, they will be able to register for additional research/writing modules during year 5 and year 6.*

- *It is compulsory to register for at least 30 ECTS per semester*

*\* New program undergoing the accreditation process*

# MSc Program Schedules

## MSc Molecular Medicine

### Autumn Semester – Full Time

Required: 30 ECTS - 2 Mandatory Courses and 1 Elective Course

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#### MANDATORY COURSES

<b>MM101</b> Molecular Basis of Monogenic Diseases	<b>MM102</b> Molecular Basis of Complex Diseases
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#### ELECTIVE COURSES

<b>MG101</b> Molecular Genetics	<b>MG102</b> Cytogenetics and Genomics	<b>NEURO101</b> Cellular and Molecular Neuroscience	<b>NEURO102</b> Brain and Behaviour	<b>MVI</b> Molecular Virology and Immunology
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### Spring Semester – Full Time

Required: 30 ECTS - 2 Mandatory Courses and 1 Research or Library Module

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#### MANDATORY COURSES

<b>MM103/NEURO103</b> Neurosciences and Neurogenetics	<b>MM104</b> Gene and Cell Therapy
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#### RESEARCH/LIBRARY MODULES

<b>MRP101</b> MSc Research Project Part I	<b>MLP101</b> MSc Library Project Part I
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### Months June to August – Full Time

Required: 30 ECTS – 1 Research or Library Module

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#### RESEARCH/LIBRARY MODULES

<b>MRP 102</b> MSc Research Project Part II	<b>MLP102</b> MSc Library Project Part II
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## MSc Medical Genetics

### Autumn Semester – Full Time

Required: 30 ECTS - 2 Mandatory Courses and 1 Elective Course

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#### MANDATORY COURSES

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**MG101**  
Molecular Genetics

**MG102**  
Cytogenetics and Genomics

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#### ELECTIVE COURSES

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**MM101**  
Molecular Basis  
of Monogenic  
Diseases

**MM102**  
Molecular Basis of  
Complex Diseases

**NEURO101**  
Cellular and  
Molecular  
Neuroscience

**NEURO102**  
Brain and  
Behaviour

**MVI**  
Molecular  
Virology and  
Immunology

### Spring Semester – Full Time

Required: 30 ECTS - 2 Mandatory Courses and 1 Research or Library Module

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#### MANDATORY COURSES

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**MG103**  
Methodologies and Technologies Applied  
in Medical Genetics

**MG104**  
Biochemical Basis of Genetic Diseases

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#### RESEARCH/LIBRARY MODULES

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**MRP101**  
MSc Research Project Part I

**MLP101**  
MSc Library Project Part I

### Months June to August – Full Time

Required: 30 ECTS – 1 Research or Library Module

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#### RESEARCH/LIBRARY MODULES

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**MRP 102**  
MSc Research Project Part II

**MLP102**  
MSc Library Project Part II

## MSc Neuroscience

### Autumn Semester – Full Time

Required: 30 ECTS - 2 Mandatory Courses and 1 Elective Course

MANDATORY COURSES				
<b>NEURO101</b> Cellular and Molecular Neuroscience		<b>NEURO102</b> Brain and Behaviour		
ELECTIVE COURSES				
<b>MM101</b> Molecular Basis of Monogenic Diseases	<b>MM102</b> Molecular Basis of Complex Diseases	<b>MG101</b> Molecular Genetics	<b>MG102</b> Cytogenetics and Genomics	<b>MVI</b> Molecular Virology and Immunology

### Spring Semester – Full Time

Required: 30 ECTS - 1 Mandatory Course, 1 Elective Course and 1 Research or Library Module

MANDATORY COURSES		
<b>MM103/NEURO103</b> Neurosciences and Neurogenetics		
ELECTIVE COURSES		
<b>MM104</b> Gene and Cell Therapy	<b>MG103</b> Methodologies and Technologies Applied in Medical Genetics	<b>MG104</b> Biochemical Basis of Genetic Diseases
RESEARCH/LIBRARY MODULES		
<b>MRP101</b> MSc Research Project Part I	<b>MLP101</b> MSc Library Project Part I	

### Months June to August – Full Time

Required: 30 ECTS –1 Research or Library Module

RESEARCH/LIBRARY MODULES	
<b>MRP 102</b> MSc Research Project Part II	<b>MLP102</b> MSc Library Project Part II

**NOTE:** No more than one elective course from the MM codes

## MSc Biomedical Research

### Autumn Semester – Full Time

Required: 30 ECTS - 2 Research Modules and 1 Elective Course

#### RESEARCH MODULES

##### MBR101A

MSc Research Project Part I

##### MBR101B

MSc Research Project Part I

#### ELECTIVE COURSES

##### MM101

Molecular Basis of  
Monogenic Diseases

##### MM102

Molecular Basis of  
Complex Diseases

##### MG101

Molecular Genetics

##### MG102

Cytogenetics and  
Genomics

##### NEURO101

Cellular and Molecular Neuroscience

##### NEURO102

Brain and Behaviour

##### MVI

Molecular Virology  
and Immunology

### Spring Semester – Full Time

Required: 30 ECTS - 2 Research Modules and 1 Elective Course

#### RESEARCH MODULES

##### MBR101C

MSc Research Project Part I

##### MBR101D

MSc Research Project Part I

#### ELECTIVE COURSES

##### MM103/NEURO103

Neurosciences and  
Neurogenetics

##### MM104

Gene and Cell Therapy

##### MG103

Methodologies and  
Technologies Applied  
in Medical Genetics

##### MG104

Biochemical Basis of  
Genetic Diseases

### Months June to August – Full Time

Required: 30 ECTS - 1 Research Module

#### RESEARCH MODULE

##### MBR102

MSc Research Project Part II

### Applies to all MSc programs

The above courses for all MSc programs (apart from the research or library project of the spring semester and the months June - September) are composed of:

- Two lectures per week (duration 90 minutes each) and one tutorial per week (duration 60 minutes each)
- The total number of lectures per academic semester is 26 for each course and 13 tutorials for each course
- Each course/research module/library module is worth 10 ECTS with the exception of MRP102, MLP102 and MBR102 which are worth 30 ECTS each
- Sessions/courses run parallel.

# PhD Program Schedules

## PhD Molecular Medicine

### Autumn Semester – Full Time (Year 1)

Required: 30 ECTS - 2 Mandatory Courses and either 1 Elective Course or 1 Research Module

#### MANDATORY COURSES

##### MM101

Molecular Basis of Monogenic Diseases

##### MM102

Molecular Basis of Complex Diseases

#### ELECTIVE COURSES & RESEARCH MODULE

##### MG101

Molecular  
Genetics

##### MG102

Cytogenetics  
and Genomics

##### NEURO101

Cellular and  
Molecular  
Neuroscience

##### NEURO102

Brain and  
Behaviour

##### MVI

Molecular  
Virology and  
Immunology

##### DRP101

PhD Research  
Project Part I

### Spring Semester – Full Time (Year 1)

Required: 30 ECTS - 2 Mandatory Courses and either 1 Elective Course or 1 Research Module

#### MANDATORY COURSES

##### MM103/NEURO103

Neurosciences and Neurogenetics

##### MM104

Gene and Cell Therapy

#### ELECTIVE COURSES & RESEARCH MODULE

##### MG103

Methodologies and  
Technologies Applied in  
Medical Genetics

##### MG104

Biochemical Basis of Genetic  
Diseases

##### DRP101

PhD Research Project Part I

## PhD Medical Genetics

### Autumn Semester – Full Time (Year 1)

Required: 30 ECTS - 2 Mandatory Courses and either 1 Elective Course or 1 Research Module

#### MANDATORY COURSES

<b>MG101</b> Molecular Genetics	<b>MG102</b> Cytogenetics and Genomics
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#### ELECTIVE COURSES & RESEARCH MODULE

<b>MM101</b> Molecular Basis of Monogenic Diseases	<b>MM102</b> Molecular Basis of Complex Diseases	<b>NEURO101</b> Cellular and Molecular Neuroscience	<b>NEURO102</b> Brain and Behaviour	<b>MVI</b> Molecular Virology and Immunology	<b>DRP101</b> PhD Research Project Part I
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### Spring Semester – Full Time (Year 1)

Required: 30 ECTS - 2 Mandatory Courses and either 1 Elective Course or 1 Research Module

#### MANDATORY COURSES

<b>MG103</b> Methodologies and Technologies Applied in Medical Genetics	<b>MG104</b> Biochemical Basis of Genetic Diseases
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#### ELECTIVE COURSES & RESEARCH MODULE

<b>MM103/NEURO103</b> Neurosciences and Neurogenetics	<b>MM104</b> Gene and Cell Therapy	<b>DRP101</b> PhD Research Project Part I
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## PhD Neuroscience

### Autumn Semester – Full Time (Year 1)

Required: 30 ECTS - 2 Mandatory Courses and either 1 Elective Course or 1 Research Module

#### MANDATORY COURSES

##### NEURO101

Cellular and Molecular Neuroscience

##### NEURO102

Brain and Behaviour

#### ELECTIVE COURSES & RESEARCH MODULE

<b>MM101</b> Molecular Basis of Monogenic Diseases	<b>MM102</b> Molecular Basis of Complex Diseases	<b>MG101</b> Molecular Genetics	<b>MG102</b> Cytogenetics and Genomics	<b>MVI</b> Molecular Virology and Immunology	<b>DRP101</b> PhD Research Project Part I
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### Spring Semester – Full Time (Year 1)

Required: 30 ECTS - 1 Mandatory Course and either 1 Elective Course  
and 1 Research Module or 2 Elective Courses

#### MANDATORY COURSES

##### MM103/NEURO103

Neurosciences and Neurogenetics

#### ELECTIVE COURSES & RESEARCH MODULE

<b>MG103</b> Methodologies and Technologies Applied in Medical Genetics	<b>MG104</b> Biochemical Basis of Genetic Diseases	<b>MM104</b> Gene and Cell Therapy	<b>DRP101</b> PhD Research Project Part I
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**NOTE:** No more than one elective course from the MM codes

### Applies to all PhD programs

The above courses (apart from the Research Project of the spring semester) are composed of:

- Two lectures per week (duration 90 minutes each) and one tutorial per week (duration 60 minutes each)
- The total number of lectures per academic semester is 26 for each course
- The total number of tutorials per academic semester is 13 for each course
- Each course is credited with 10 ECTS with the exception of DRP102 (50 ECTS), DRP104 (60 ECTS), DRP105 (up to 120 ECTS) and DRP106 (up to 60 ECTS each)
- In the event that students require additional time to complete their work, they will be able to register for additional research/writing modules during year 5 and year 6, under the following schedule: Years 5-6 (up to 120 ECTS: PhD research part IV, PhD thesis report and examination). All students are required to complete their research modules, prior to registering for the PhD thesis report and examination modules
- For all PhD programs: Research Modules parts 2 – 4 are carried out during years 2 – 4 of study
- Sessions/courses run parallel.



# Course Descriptions

## MM101: Molecular Basis of Monogenic Diseases

*COORDINATOR: Marina Kleanthous, Professor*

The course Molecular Basis of Monogenic Diseases is aimed at postgraduate students of biology and medical genetics and reviews all key aspects of the field of monogenic (or single-gene) disorders. Individually, monogenic diseases are rare but taken together affect about 1% of the population.

Moreover, owing to their accessibility to genetic and functional assays, monogenic disorders have contributed disproportionately to the development of modern tools and methods in genetics and to our knowledge of human gene function in health and disease. The scope of this course is to analyse the molecular mechanisms underlying exemplary monogenic diseases.

The course will further provide an overview of tools to study and understand monogenic diseases, with an emphasis on new technologies for gene discovery, on bioinformatics tools and on the prediction of disease severity based on primary genotype and on the presence of genetic and epigenetic modifiers. Attention will also be given to the more applied aspects of monogenic diseases, such as disease management and prevention, current and novel therapeutic approaches and the concepts of pharmacogenetics and personalised medicine.

## MM102: Molecular Basis of Complex Diseases

*COORDINATOR: Kyriacos Kyriacou, Professor*

Complex diseases are common polygenic disorders that develop as a result of interactions of multiple genes with each other, as well as with the environment. This lecture course will discuss the current aspects in the field of complex disorders. Despite the complex pathogenic mechanisms that operate towards the development of complex diseases, our understanding of their molecular basis has been greatly improved in recent years.

Therefore this course will describe the modes of inheritance, as well as the molecular mechanisms implicated in complex disorders. By drawing on specific examples of complex human diseases, such as cancer, skin and respiratory disorders, current concepts of molecular mechanisms involved in their pathogenesis will be reviewed and discussed. A number of study designs will be employed to review the tools, past and present, used to investigate and understand complex diseases. The use of new technologies for elucidating disease mechanisms, including high throughput genotyping, functional genomics, model organisms and bioinformatics, will be discussed. In addition, the clinical aspects of complex diseases, such as prevention, early diagnosis, therapy, use of biomarkers, as well as evaluation of disease severity, based on modifying factors, genetic and epigenetic, will be reviewed.

## MM103/NEURO103: Neurosciences & Neurogenetics

*COORDINATOR: Theodoros Kyriakides, Professor*

The purpose of the course is to provide an understanding of the molecular basis of a number of peripheral and central neurological diseases. This usually entails an understanding of the structure and function of the central and peripheral nervous system, a basic knowledge of molecular biology and Neurogenetics. Great emphasis will be given to correlating basic scientific principles to disease causation and symptoms as well as approaches to treatment.

The course will cover the anatomy and functional organization of the central and peripheral nervous system at macroscopic, microscopic and sub-cellular level. Common disease mechanisms participating in neurodegeneration such as oxidative stress, apoptosis, protein aggregation, mitochondrial dysfunction will be outlined and subsequently illustrated in a variety of human neurological disorders and animal models. Similarly the contribution of some cellular organelles in the pathophysiology of neurological disease will be illustrated. A variety of molecular biology techniques and the principles of Neurogenetics will be covered. Throughout the course great emphasis will be made to correlate clinical phenotype with the molecular basis of disease and will also include genetic and epigenetic aspects. Lastly a variety of animal models will be covered to illustrate some of the principles of translational medicine.

## MM104: Gene and Cell Therapy

*COORDINATOR: Nikolas Mastrogiannopoulos, Assistant Professor*

The course of Gene and Cell Therapy includes the main topics of the fields of Gene and Cell Therapy. The majority of diseases, inherited or acquired could be candidates for gene and cell therapy. Until now, several approaches have been developed towards this direction. Some of these have been tested in patients but the majority of them are at the research level, since gene and cell therapy are recent disciplines of the biomedical field.

The initial aim of the course is the understanding of the various ways of delivering genetic material in cells and organisms. The genetic "tools" which are currently used for gene and cell therapy will then be described and analysed. A big portion of the course will also deal with the various strategies developed for gene and cell therapy of diseases such as muscular dystrophies, cancer, inherited and infectious diseases.

Finally, gene and cell therapy clinical trials will be described and discussed in the classroom. The course is designed to understand firstly the concepts and tools for gene and cell therapy and then their application in the various strategies against diseases. The students will then comprehend and put together all knowledge received through presentations of research papers and acquaintance and discussions of gene and cell therapy clinical trials. Tutorials will be used to answer specific questions and to deepen students' understanding through group discussions with the aid of research papers.

## MG101: Molecular Genetics

*COORDINATOR: Marios Cariolou, Professor*

The course in Molecular Genetics will focus exclusively on human genetics. Selected areas of emphasis will cover, at the beginning of the course, a broad range of basic concepts including: human DNA structure, gene function and organization and control of gene expression. More complex areas will concentrate on the human genome project, GWAS (Genome Wide Association Studies), understanding the role of genetic polymorphisms in athletic performance and mutations in disease development using as examples cardiovascular conditions, inherited deafness and disorders of sexual differentiation (DSD).

The course will include lectures on the use of genetics in human identification for forensic purposes including crime related investigations, kinship analyses, missing persons and disaster victim identification. Data analysis, interpretation and basic statistical methods used in forensic genetics will also be covered. The course will be completed by the presentation of interesting bioethical issues resulting from the advancement of genetics in health and/or forensic related areas and how genetic studies undergo bioethical review in Cyprus.

## MG102: Cytogenetics & Genomics

*COORDINATOR: Carolina Sismani, Associate Professor*

The aim of this course is to provide in-depth education to students in the area of Human Cytogenetics and Genomics. The course will cover all aspects of human cytogenetics and genomics and will include methodologies from conventional cytogenetics such as tissue culture, karyotype and FISH to more cutting edge technologies used in molecular cytogenetics and genomics such as array-CGH (Comparative Genomic Hybridization) and NGS (Next Generation Sequencing).

The course will also cover the mechanism of formation of chromosomal abnormalities, their pathogenicity and clinical interpretation. Emphasis will also be given in the current research involving the field of cytogenetics and genomics.

The lectures of this course include topics such as, laboratory methodologies, analysis of chromosomes, preimplantation, prenatal and postnatal analysis, chromosomal disorders and syndromes, cancer cytogenetics, epigenetics, genomic disorders, molecular mechanism, non-invasive prenatal diagnosis, NGS and many other topics. The course will include lectures, tutorials, workshops, presentation of actual cases and referrals to current bibliography.



## MG103: Methodologies & Technologies Applied in Medical Genetics

*COORDINATOR: Kyproula Christodoulou, Professor*

The aim of the course is to enable students to understand in-depth, critically discuss, implement and competently interpret and present results of a wide range of methods and techniques that are applied in medical genetics.

The course will consist of lectures, tutorials, laboratory demonstrations and literature studies. Each lecture will be focused on one major method or a group of methods that are applied in medical genetics with relevant application examples.

Methodology and technology to be covered includes: nucleic acids extraction from various tissues, nucleic acids separation methods, amplification of nucleic acids by PCR, restriction enzymes and recombinant DNA technology, Southern blot analysis, DNA sequencing, DNA repeats analysis, SNP analysis, Real Time PCR, MLPA analysis, DHPLC analysis, DGGE analysis, SSCP analysis, Western and Northern blot analyses, microarray technology, proteomics, next generation sequencing, haplotype and linkage analyses, linkage disequilibrium and association analyses and genetic risk assessment.

## MG104: Biochemical Basis of Genetic Diseases

*COORDINATOR: Petros Petrou, Assistant Professor*

Gene mutations primarily affect proper protein function often resulting in cellular pathology and the manifestation of disease. This course is mainly focused on inherited metabolic disorders and aims at providing postgraduate students with a comprehensive background and understanding of the effects of protein dysfunction on cell and organ pathology. Inborn errors of metabolism comprise a large group of disorders which are predominantly caused by inherited deficiencies of enzymes involved in specific biochemical pathways.

The course will deal with the major metabolic pathways and discuss genetic, cellular, clinical and biochemical features of related disorders. Inherited enzymatic deficiencies and their effects on the function of organelles such as lysosomes, peroxisomes and mitochondria will be further highlighted.

Students will also be introduced to the principles, methodology and instrumentation used for the laboratory investigation of inborn errors of metabolism including the latest technological advances. Current approaches, challenges and new trends in the management and treatment of these disorders will be reviewed. The concept of newborn screening for inherited metabolic disorders along with the associated benefits, problems and dilemmas will be discussed.

## NEURO101: Cellular and Molecular Neuroscience

*COORDINATOR: Kleopas Kleopa, Professor*

The aim of this course is to provide an in-depth understanding of basic cellular and molecular processes underpinning brain function. The unique aspects of nervous system development, cellular architecture, excitability, and homeostasis will be highlighted. Examples of neurological disorders resulting from genetic or acquired nervous system disturbances at the cellular and molecular level will further emphasize their importance and provide a link between basic and clinical neuroscience.

In addition to the theoretical basis, the course will include practical aspects of research in the neuroscience laboratory such as imaging, microscopy, DNA recombination, and generation of disease models, all needed for further career in neuroscience research.

The CMN course will provide complementarities with the other core courses within the Neuroscience MSc/PhD program in order to offer a complete coverage of the field. Transferable skills will also be acquired through focused school-wide lectures.

## NEURO102: Brain and Behaviour

*COORDINATOR: Savvas Papacostas, Professor*

The main emphasis of this course will be two-fold. On the one hand it will review and discuss the basic structure of the nervous system and the way its nature and pattern of physiological functioning influence normal and abnormal behaviour; neuronal functioning and its effects on neurotransmitters, structural and anatomical features of the nervous system, hormonal and endocrine functioning and the interrelationships between various biological systems in the regulation of behaviour.

On the other hand it will review and discuss the physiological bases and current research in a number of selected behaviours and neurological/psychiatric conditions such as sleep, eating, reproduction, aggression, memory, communication and mental disorders.

### **Topic areas**

- Physiological, anatomical and communicative functions of neurons in the central nervous system
- Structures and anatomical features of the brain, especially those parts related to behaviour
- The neural and/or hormonal bases of selected behaviours
- Interrelationships between various parts of the brain in the regulation of behaviour
- Contemporary literature in physiological bases of behaviour
- Current research in physiological neuropsychology and comparisons with results of contemporary research with other published information.

## **MVI:** Molecular Virology and Immunology

*COORDINATOR: George Krashias, Lecturer*

The course Molecular Virology and Immunology offered at CSMM includes the main topics in the fields of Virology and Immunology. This course has a dual purpose: to provide an integrated and more advanced understanding of viruses in general and their role in disease pathogenesis, focusing on understanding the molecular basis of these processes; and secondly to provide broad knowledge of the basic concepts in cellular and molecular immunology. Emphasis will also be given to understanding the viral survival strategies and the immune mechanisms that result in elimination of viral pathogens.

An overview of available approaches (vaccines and antiviral drugs) for providing protection and treatment against viral diseases and of various cutting edge methodologies currently used for the diagnosis and monitoring of viral infections will be also be provided by this course. Tutorials held throughout the course will address specific questions, helping students to broaden the knowledge acquired during lectures through group discussions and the use of original research papers.

Finally, the workshops will be used to improve students' communication skills through oral presentations and small group discussions. The course does not require any previous knowledge in virology and immunology.

## **Preparatory Course** Introduction to Molecular Biomedical Sciences

*COORDINATOR: Carsten W. Lederer, Assistant Professor*

The preparatory course Introduction to Molecular Biomedical Sciences provides necessary background information for the main CSMM postgraduate programs.

Attendance and successful completion of a written course exam are/is compulsory for most of the course participants, from non-biomedical backgrounds. The course is also highly recommended as a vocabulary primer for participants originating from non-English-speaking institutions and as an update for participants who graduated a number of years ago. Moreover, attendance may benefit anyone registered for the CSMM postgraduate programs. This preparatory course precedes the main CSMM courses and is organised into a maximum of 10 lecture sessions.

## **Elective Course related to Bioinformatics**

You may enquire with the Education Office regarding the possible addition of a new elective course, organised by the CING's newly-established Bioinformatics Group.



# Admission Criteria & Application Procedure

**To be admitted to an MSc or a PhD program, a student must meet at least the minimum requirements listed below:**

- A Bachelors degree from a recognised accredited institution, in a related field of study
- English Language Certification or other accepted International Standard, if graduated from an institute where English is not the language of instruction.

## Application Process

The CSMM application procedure takes place online, at the beginning of each calendar year. Application announcements are made via email and the School's website.

## Required Documents

- A Completed Online Application Form
- CV and Highschool Leaving Certificate
- Academic and/or Professional References
- Academic Transcripts
- English Language Certificate (see above)
- Copy of I.D/Passport

## European Credit Transfer System (ECTS)

All Programs use the European Credit Transfer System (ECTS) which takes into consideration the workload for:

a) class attendance b) homework c) exam preparation.

In order to be awarded their title, students must successfully complete all courses included in their Program's curriculum including any other MSc or PhD degree requirements such as their Library or Research/Lab project (thesis) or PhD examination

and produce at least one academic publication.

ECTS course exemptions may be granted subject to review on a case by case basis and upon application. For information, contact the Education Office.

## Course Registration

The CSMM offers an online service portal (Extranet) that facilitates the learning experience. It allows faculty and students to communicate and share educational material, view assessment results, statistics and academic transcripts. Also, registration and payment are only possible through Extranet. Students are provided with a unique username and password at the beginning of the academic year which allows them to navigate through the portal.

Students are expected to attend all necessary lectures, tutorials and seminars.

## Adding and Dropping Courses

Students have the right to add or drop a course within a certain period at the beginning of each semester. More information regarding the exact dates to add or drop a course is available in the academic calendar.

## Student Representatives

At the beginning of each Academic year, all students from each Program will be requested to elect one representative. Class representatives will represent the CSMM students in various activities and serve as an intermediary between the students, the faculty and the administration.

# Information for International Students

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## Entry Requirements

### Travel Documents

Travelling to Cyprus requires certain documents which vary, depending on nationality. A valid passport is required for a stay of up to 90 days for all tourists, except citizens of EU, Switzerland, Iceland, Liechtenstein and Norway, who may enter Cyprus with the use of their national identity card provided that it bears a photo. Some non-EU third country nationals require a visa. Further detailed information can be obtained from the Ministry of Foreign Affairs.

### Legal Points of Entry

The legal points of entry into the Republic of Cyprus are the airports of Larnaca and Pafos (Paphos) and the ports of Larnaca, Lemesos (Limassol), Latsi and Pafos (Paphos), which are situated in the area under the effective control of the Government of the Republic of Cyprus. Entry into the territory of the Republic of Cyprus via any other port or airport in which the Government of the Republic does not exercise effective control (Turkish occupied areas) is illegal.

### Health Insurance and Services

All E.U. students who have a European Medical Card E111 are entitled, upon presentation of the card, to free medical and pharmaceutical care by public hospitals in Cyprus.

Non-E.U. students, as well as E.U. students who do not possess the above mentioned card, must obtain private medical insurance for in-hospital and outpatient medical treatment in Cyprus.

Non-E.U. students will also need to obtain private medical insurance immediately upon arrival in Cyprus as it is a requirement to obtain a VISA.

## Diplomatic Missions of the Republic of Cyprus Abroad

Detailed information regarding the Embassies and High Commissions of the Republic of Cyprus abroad can be obtained from the Ministry of Foreign Affairs.

## About Cyprus

Cyprus is geographically located in the north-eastern corner of the Mediterranean Sea, at the crossroads of 3 continents, Europe, Asia and Africa, 75km south of Turkey, 90km west of Syria and 380km east of the Greek island of Rhodes. It covers an area of 9,251 sq. km which makes it the third largest island in the Mediterranean Sea after Sicily and Sardinia. English is widely spoken in Cyprus and regularly used in commerce and government.



## Mobility Opportunities at the CSMM

### Erasmus+

As an educational institution which has been awarded the Erasmus Charter for Higher Education, the CSMM supports mobility of students and staff to improve the quality of higher education by encouraging transnational cooperation between universities and contributing to improved transparency and academic recognition of qualifications and studies throughout the European Union.

Students of the CSMM participate in mobility programs with partner institutes internationally.

Under regulations of the Erasmus Scheme, Alumni of the CSMM are entitled to participate in mobility schemes for up to a year after graduating from the School. This provides a plethora of opportunities for our alumni to gain both work experience and skills in an international setting.

The CSMM Education Office provides assistance and support to all participants of mobility programs. Full details can be found on the CSMM website: [www.cing.ac.cy/csmm/](http://www.cing.ac.cy/csmm/)

## Student Services

We are here to support you every step of the way!

The CSMM Education Office deals with all matters involving student affairs as well as international relations. The Education Office is the first and main point of contact for all applicants, students of the School and participants of mobility programs.

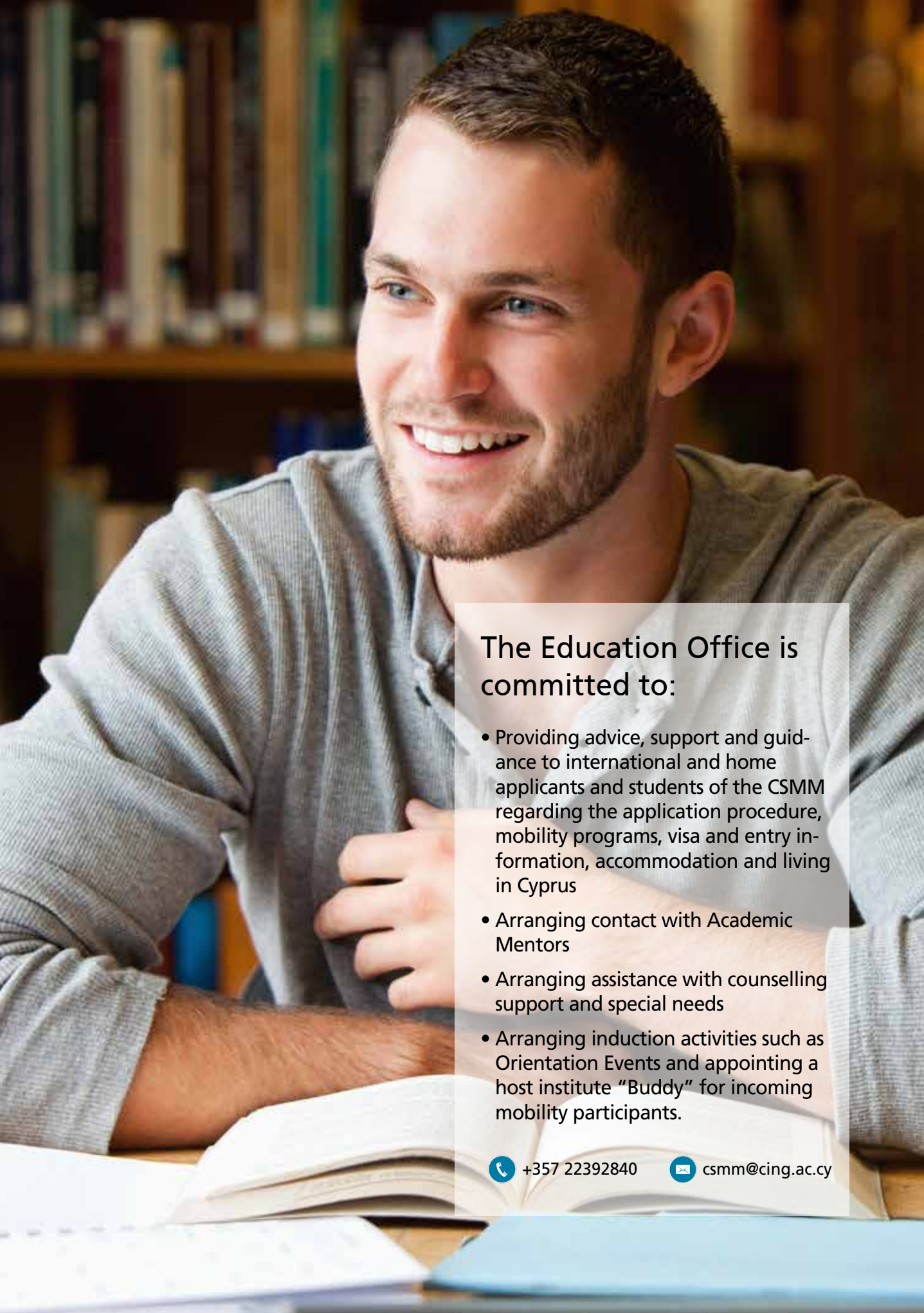
The Education Office is responsible for ensuring a seamless application procedure and smooth induction and study period for students, while also following-up post-study with international students and mobility participants in order to ensure full recognition of their time spent at the CSMM through the Learning Agreement and Transcript of Records.

The Education Office also organises various types of student events and activities such as Orientation Programs, Awards Ceremonies, Charity Events, Graduation Ceremonies, etc.

Careers Office services such as CV Workshops and mock interviews are also organised by the Education Office in cooperation with the Institute's Human Resources Department. The aim of the Careers Office is to assist students and alumni in preparation for all career related issues.

The personnel of the CSMM are committed to enriching the student experience and promoting a full and active student life. We provide the necessary support and resources to ensure that all students will enjoy their experience at the CSMM to the maximum.





## The Education Office is committed to:

- Providing advice, support and guidance to international and home applicants and students of the CSMM regarding the application procedure, mobility programs, visa and entry information, accommodation and living in Cyprus
- Arranging contact with Academic Mentors
- Arranging assistance with counselling support and special needs
- Arranging induction activities such as Orientation Events and appointing a host institute "Buddy" for incoming mobility participants.



+357 22392840



csmm@cing.ac.cy



## Student Services

### **Orientation Event**

Before the beginning of the Autumn Semester, the CSMM organises a warm welcome orientation event for all new students. This is a perfect opportunity for students to become familiar with the School's premises, to meet the Academic Staff and the Administrative Team, take tours, participate in fun activities and to get acquainted before the Autumn semester gets underway.

### **Library**

The Library of the Cyprus School of Molecular Medicine consists of reference books, journals, technical information, dictionaries and other reading material. The academic staff and students of the CSMM have access to information such as electronic journals and databases. The Library is continuously updated with new scientific journals and books, relevant to the CSMM's clinical, educational and research activities.

Student computer laboratories and meeting areas are available in the Library. Students are able to access the internet and work on their assignments. Printing facilities are also available.

There are no laboratory-based courses; however students may have to undertake individual research projects. Students are placed in the Departments or Clinics of CING and will be under the supervision of an Advisor.

### **Academic Advice and Guidance**

All students will be assigned an Academic Advisor who will be responsible to advise students on academic issues.

In addition, students will also be assigned a Research/Library Advisor who will provide supervision regarding their final thesis (research project or library project).

Additionally, students may also consult the Education Office on other topics related to living in Cyprus.

Finally, students will be bound by the existing rules, regulations and policies common to all CING employees and also by the CSMM Student Policies, information within the Student Handbook.

### **Services for Students with Special Needs**

The CSMM is committed to offering practical solutions to any of the students' special needs, such as access to the CSMM facilities, or assistance on their academic issues.

### **Employment**

The CING is a highly respected organisation both locally and internationally. As a result, various important projects are conducted within the Institute. CSMM PhD students will have the opportunity to be part of various important projects towards a reduction in their tuition fees.

### **Café/Restaurant**

A café/restaurant is available on the CING premises with subsidised prices for all CING employees and CSMM students.

### **Accommodation**

Students of the Cyprus School of Molecular Medicine can choose from a great range of private apartments and houses within walking distance of the School. The Education Office may assist students in finding their accommodation for the duration of their studies.

### **Local Area**

Within walking distance from the School, students can find a mall, various shops, coffee shops, restaurants, clubs, banks etc. Monthly living expenses are estimated to be between €680–€850 including rent.

## Social Responsibility and Sustainability

The CING and the CSMM are committed to social responsibility and sustainability. To this extent, CSMM students and CING academic and administrative staff are highly encouraged to:

- Volunteer in various charity events (especially fundraising for TELETHON), blood donations, green events
- Provide open lectures/seminars based on their expertise, given the non-profit character of the organisation
- Recycle non-toxic used lab consumables and other recyclable materials in the CING designated areas
- Make energy savings in the buildings
- Submit innovative ideas to the CING Management regarding additional related actions that can be implemented.



## School Governance & Faculty

### School Council

Prof. Leonidas A. Phylactou - CSMM Provost / CING Chief Executive Medical Director and BoD Member (President)

Mr Alexandros Ioannides - CING BoD Member (Member)

Mr Stelios Stylianou - CING BoD Member (Member)

Prof. Kyriacos Kyriacou - Dean of the CSMM (Member)

Prof. Kyproula Christodoulou - CSMM Faculty (Member)

Prof. Theodoros Kyriakides - CSMM Faculty (Member)

Prof. Marios Cariolou - CSMM Faculty (Member)

Prof. Kleopas Kleopa - CSMM Faculty (Member)

Ms. Marina Stavrou - Elected Student Representative (Member)

### Provost

The Chief Executive Medical Director of the Cyprus Institute of Neurology and Genetics, Prof. Leonidas A. Phylactou, is the ex-officio Provost of the School. He has the overall supervision of the operation of the CSMM. The Provost of the School oversees all external relations and is responsible for promoting the expansion of the CSMM.

### Dean

The Dean of the School has the academic responsibility of the CSMM. Prof. Kyriacos Kyriacou is the appointed Dean of the Cyprus School of Molecular Medicine.

### Program Coordinators

The Program Coordinators are responsible for the management and coordination of the specific programs of the CSMM.

**Molecular Medicine:** Prof. Theodoros Kyriakides

**Medical Genetics:** Prof. Kyproula Christodoulou

**Neuroscience:** Prof. Kleopas Kleopa

**Biomedical Research:** Prof. Marios Cariolou

### Education Office Personnel

*MANAGER:* Marinos Voukis  
(marinosv@cing.ac.cy, +357 22392842)

*OFFICER:* Maria Lagou  
(marial@cing.ac.cy, +357 22392841)

*OFFICER:* Andria Ioakem  
(andriai@cing.ac.cy, +357 22392843)

### Academic Faculty

Leonidas Phylactou, Provost, Professor

Kyriacos Kyriacou, Dean, Professor

Philippos Patsalis, CING BOD's Distinguished Professor

Marios Cariolou, Professor

Kyproula Christodoulou, Professor

Anthi Drousiotou, Professor

Marina Kleanthous, Professor

Kleopas Kleopa, Professor

Theodoros Kyriakides, Professor

Savvas Papacostas, Professor

Andreas Hadjisavvas, Associate Professor

Marios Pantzaris, Associate Professor

Carolina Sismani, Associate Professor

Violetta Anastasiades, Emeritus Assistant Professor

Carsten Lederer, Assistant Professor

Nikolas Mastrogiannopoulos, Assistant Professor

Eleni Papanicolaou-Zamba, Assistant Professor

Petros Petrou, Assistant Professor

Evy Bashiardes, Lecturer

George Krashias, Lecturer

Paschalis Nicolaou, Lecturer

Lefteris Papathanasiou, Lecturer

Irene Sargiannidou, Lecturer

### Finance & Administration

#### Director of Finance and Administration

The Financial and Administrative Director of CING, Mr. Marios Flouros, is the ex-officio Financial and Administrative Director of the School who has the responsibility for the financial and administrative work of the CSMM.

*SECRETARY:* Eleftheria Ioannou  
(eleftheriai@cing.ac.cy, +357 22392840)

*LIBRARIAN:* Maria Ellina  
(ellina@cing.ac.cy, +357 22392670)

*I.T. ASSISTANT:* Aristos Aristodemou  
(aristosa@cing.ac.cy, +357 22392834)





## School Committees

### **Academic Committee**

Prof. Kyriacos Kyriacou (Chairman)  
Prof. Marios Cariolou  
Prof. Kyproula Christodoulou  
Prof. Kleopas Kleopa  
Prof. Theodoros Kyriakides  
Ms. Marina Stavrou (Student Representative)

### **Administration Committee**

Prof. Leonidas A. Phylactou (Chairman)  
Prof. Kyriacos Kyriacou  
Mr. Marios Flouros  
Ms. Marina Stavrou (Student Representative)

### **Disciplinary Committee**

Prof. Kyriacos Kyriacou (Chairman)  
Prof. Marios Cariolou  
Prof. Kyproula Christodoulou  
Ms. Marina Stavrou (Student Representative)

### **Molecular Medicine Admissions Committee**

Prof. Theodoros Kyriakides (Chairman)  
Prof. Kyriacos Kyriacou  
Prof. Marina Kleanthous  
Dr. Nikolas Mastrogiannopoulos

### **Medical Genetics Admissions Committee**

Prof. Kyproula Christodoulou (Chairman)  
Prof. Marios Cariolou  
Dr. Petros Petrou  
Dr. Carolina Sismani

### **Neuroscience Admissions Committee**

Prof. Kleopas Kleopa (Chairman)  
Prof. Theodoros Kyriakides  
Prof. Savvas Papacostas

### **Biomedical Research Admissions Committee**

Prof. Marios Cariolou (Chairman)  
Prof. Leonidas A. Phylactou  
Dr. Petros Petrou

### **Quality Assurance Committee**

Prof. Leonidas A. Phylactou (Chairman)  
Mr. Stelios A. Stylianou (Representative of the CING Board of Directors)  
Prof. Kyriacos Kyriacou  
Prof. Kyproula Christodoulou  
Prof. Kleopas Kleopa  
Mr. Marios Flouros  
Mr. Marinos Voukis  
Ms. Maria Theocharidou  
Ms. Marina Stavrou (Student Representative)

## Tuition Fees & Scholarships

### Tuition Fees

Education is an investment in your future and the CSMM is committed to offering an accessible education to all successful applicants.

Students will be informed by the Education Office about the exact payment deadlines of each semester.

<b>FEE TYPE</b>	<b>AMOUNT (€)</b>	<b>DETAILS</b>
MSc Tuition Fees	8,000	
PhD Tuition Fees	Please see note 3 below	–
Application Fees	40	Per application
Registration Fees	25	Per registration
Late Registration Fees	25	Per late registration
Technology Fees (internet & email use)	10	Per registration
Transcript Fees	5	Per additional copy
Graduation Fees	50	–
Preparatory Course Fees	300	–

#### Notes:

(1) Health Insurance cover is recommended for all students.

(2) International students are required to have health insurance for themselves as well as for their spouse and children.

(3) The total cost for the PhD Programs (Euros 20,750) is divided over the duration of 4 years. The cost for the 1st year of studies amounts to Euros 5,450.

### Scholarships & Grants

#### Publicly-Funded Grants

Students of the CSMM are entitled to apply for a publicly-funded grant based on the Government's assessment criteria.

#### CSMM Scholarships

A number of full and partial scholarships to cover tuition fees are awarded to MSc and PhD students based on academic criteria.

In addition to the above, various types of scholarships are available specifically for PhD students, for years 2, 3 and 4 which may cover costs of consumables and/or a monthly allowance.

The exact amount and number of scholarships that are offered is always subject to the yearly budget of the School.

# Academic Calendar

Calendar for the academic year 2017-2018

	<b>Fall Semester</b>	<b>Spring Semester</b>	<b>Summer Period (only for MSc Progs.)</b>
Registration for Preparatory Course	June - Early Aug 2017	-	-
Preparatory Course	Mid Aug - Early Sept 2017	-	-
Registration Period	Late Aug - Mid Sept 2017	Jan 2018	Early June 2018
Late Registration Period	Mid Sept 2017	Late Jan 2018	-
Beginning of courses / project	Late Sept 2017	Early Feb 2018	Early June 2018
Deadline to ADD / DROP course / project	Early Oct 2017	Mid Feb 2018	-
Last days of lectures	Mid Dec 2017	Mid May 2018	-
Examinations	Jan 2018	Mid - Late May 2018	Mid Sept 2018
Holidays	Late Dec 2017 - Early Jan 2018	Mid Apr - Early May 2018	-

## Public Holidays 2017

01 October	Independence Day
28 October	Greek National Day
24 December	Christmas Eve
25 December	Christmas Day
26 December	Boxing Day
31 December	New Year's Eve

## Public Holidays 2018

01 January	New Year's Day
06 January	Epiphany Day
19 February	Green Monday
25 March	Greek Independence Day
01 April	National Day
05 April	Holy Thursday (Half Day)
06 April	Good Friday
09 April	Easter Monday
01 May	Labour Day
05 June	Whit Monday
15 August	Assumption Day



*Challenge your knowledge*  
*Succeed through excellence*  
**M***aximise your potential*  
**M***ake a difference*

At the **CING** and the **CSMM** all our work and efforts focus on one ultimate goal

**MAKING A POSITIVE DIFFERENCE** to the field of science, to our patients, to our society.

We achieve this and continue to strive for this through our contribution to innovative **RESEARCH**, through exposing our students to exceptional skills and **EDUCATION**, through providing our patients with the best possible care and quality **SERVICES**.

**Join the CING family and make a difference!**

### **Legal Responsibility**

The person legally responsible for the Cyprus School of Molecular Medicine is the Cyprus Institute of Neurology and Genetics.

### **Prospectus Approval**

The prospectus has been approved by the Ministry of Education and Culture by their letter dated 10<sup>th</sup> March 2017.

**Disclaimer:** Information included within this prospectus was correct at the time of publication. The information is to be used as a general guide, changes may occur after publication.





CYPRUS SCHOOL  
of molecular medicine



THE CYPRUS INSTITUTE OF  
NEUROLOGY & GENETICS

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The Cyprus Institute of Neurology and Genetics**

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