

Dual Master Degree Program (DMDP) Agreement

between

Faculty of Biology and Pharmacy, University of Cagliari (“UniCa”), VAT registration no. 80019600925, via Università no. 40 - 09124 Cagliari, Italy,

and

College of Medicine, Taipei Medical University (“TMU”), addressed in No. 250, Wuxing Street, Xinyi District, 11031 Taipei City, Taiwan.

Faculty of Biology and Pharmacy, UniCa and College of Medicine, TMU are hereinafter referred to as the “parties”, “universities” or “institutions” jointly and as a “party”, “university” or “institution” separately.

Applicable to the corresponding degrees:

- *Laurea Magistrale in Biologia Cellulare e Molecolare* (Master Degree in Cellular and Molecular Biology, curriculum Advanced Cellular Studies, UniCa, Italy)
- *Master of Science Degree* from the Graduate Institute of Medical Sciences (GIMS) or the International Master Program in Medicine (IGPM), College of Medicine, TMU, Taiwan; students from UniCa can choose either the IGPM or GIMS program when entering enrollment at TMU

Preamble

1. Since 2015 common research has existed between TMU and UniCa in the field of Chinese herbal medicine and antiviral research with faculties in College of Pharmacy and College of Medicine. Four potential areas of collaboration are identified, and a Global Internship Facilitation of Taiwan (GIFT) project in Neurosciences has been implemented.
2. An official cooperation framework agreement was signed between TMU and UniCa on April 20th, 2015. Four students from TMU participated in the Summer School “Innovative approaches for the identification of antiviral agents” organized by UniCa, from September 28th to October 3rd, 2016.
3. An official Dual Degree in Ph.D program agreement was signed between TMU and UniCa on December 28th, 2018, between the Ph.D. Program in Life, Environmental and Drug Sciences at UniCa and Ph.D. Programs from the Graduate Institute of Medical Sciences and the International Ph.D. Program in Medicine from the College of Medicine at TMU.
4. The intention of a mutual recognition for Italian and Taiwanese graduate degrees and 2nd cycle degrees encourages the partners to cooperate more closely to expand the scope of international collaborative student traineeships by awarding a M.Sc. Dual Degree.

Management of the Dual Master Degree Program

Each partner should appoint a local academic coordinator from amongst the academic staff teaching in the Dual Master Degree Program, who is responsible for (1) ensuring that the requirements of their

home universities are met; (2) managing the Dual Master Degree Program efficiently in collaboration with partner coordinator; and (3) coordinating the Dual Master Degree Program management (including recruitment procedures, examinations and assessments) with local administrative representatives (including institution for international academic relationships, course board and registrar offices).

The governing board of this Dual Master Degree Program is composed of the 2 program-coordinators and the boards of programs involved from each institution.

Each institution will afford the mobility of its staff inherent to this partnership, although most meetings should be organized via video-conference, wherever possible.

The details set out below are in accordance with the following regulations:

- For TMU, the Taipei Medical University Regulation for Joint Dual Degree Programs, the Taipei Medical University Students Overseas Training Guidelines regarding joint Master degree training, and the Academic Regulations of Taipei Medical University.
- For UniCa, Ministerial Decree no 270/2004 on the rules concerning the teaching autonomy of Universities, Ministerial Decree 16th March 2007, Definition of standards for Master degree programs, Ministerial Decree no 6/2019, Self-assessment, assessment, initial and periodic accreditation of universities and Study Programs; UniCa Student careers Regulation and University Educational Regulation.

Description of the Dual Master Degree Program

Article 1 – Duration of the Dual Master Degree Program and Student’s Mobility

The duration of the Dual Master Degree Program at UniCa and TMU is 4 semesters (corresponding to 120 ECTS at UniCa and 33 credits at TMU (students enrolled in this Dual Master Degree Program must complete 33 TMU credits).

The duration of the study in the partner country will be 2 semesters full-time equivalent.

TMU’s Master Programs in the Graduate Institute of Medical Sciences (GIMS) or the International Master Program in Medicine (IGPM) include mandatory course credits, elective course credits, and dissertation credits. 1 TMU credit consists of 18 hours of frontal lectures. Students are additionally expected to complete at least 500 laboratory hours in the first year of study and 700 laboratory hours in the second year of study.

UniCa’s Master Program consists of 120 ECTS credits that include mandatory course credits, elective course credits, internship and dissertation credits. 1 credit at UniCA consists of 25 hours of student work that be: i) 8 hours of class time + 17 hours of individual study; ii) 12 hours of laboratory work + 13 hours of individual study; iii) 25 hours of internship and dissertation preparation.

Article 2 – Admission Procedure and Criteria

The students enrolling to the Dual Master Degree Program will be recruited, separately, by UniCa and TMU.

The students should express the intent to be enrolled into the Dual Master Degree Program at the latest by the end of their 1st year and follow the application submission deadline.

The language of both degrees is **English**. Within each institution, the selection criteria will be in place to ensure that the capacities and potential of each candidate, once recruited, will enable them to make progress and succeed within an international academic context.

Students participating in the Dual Master Degree Program from UniCa or TMU are selected and recommended by each institution according to their own regulations. All students are expected to have a skill-level in spoken and written (scientific) English corresponding to the European level B2 or above before departure. The required English level can also be demonstrated through other internationally recognized qualifications (e.g. IELTS).

From the signed date of this Agreement, the maximum number of students enrolled in the program will be 2 from each institution per year. This number may be revised every year at the request of one or both of the partner institutions. If it is not revised, the number will remain as stated in the present Agreement, for the entire duration of the Agreement.

Article 3 – Registration and Enrolment Fees

Students should register in their home institution for the complete M.Sc. duration and in the host institution for 2 semesters in order to allow for delivery of a completed dual diploma workload at the end of the program.

Students must pay all relevant fees to their home institution only.

Each institution should help enrolled students in their initiatives to apply for any financial support.

Article 4 – Guidance and Learning Schedule

To optimize the pathway of each student, according to his/her prerequisites and professional expectation, a learning schedule will be defined by the coordinators before the mobility.

In particular, coordinators and local boards will also define the Master-thesis subject or topic along with supervisor based on:

- (1) student interest as exposed in a motivational letter;
- (2) student professional-project; and
- (3) timeliness and relevance of the thesis project to be sure that it will be suitable for carrying out a high-quality Master thesis project in terms of scientific output and complementary skill training. Master thesis co-supervised by scientists from both institutions should be favored.

Article 5 – Structure of the Dual Master Degree Program and Mobility Schedule

Students enrolled in the Dual Master Degree Program, in the period spent at the partner institution, will have a workload of:

- for UniCa students 16 credits at TMU Graduate Institute of Medical Sciences (GIMS) or the International Master Program in Medicine (IGPM), including mandatory credits, elective credits, plus laboratory hours, and dissertation credits
- for TMU students 64-65 credits at UniCa, including course-based units, elective credits, laboratory practice, and dissertation credits.

The program is full-time and runs over 2 academic years.

TMU and UniCa students are expected to validate the indicated required credits (see examinations and assessments below and Appendix 1) according to their Master degree program.

A conversion and equivalence chart is detailed in Appendix 1 for credit accumulation at both institutions and credit transfer.

The research training and/or preparation of the Master thesis or the job placement can be conducted at either or both institutions.

Students will follow the units as listed in Appendix 1 (according to the recruitment conditions below and the non-sequential schedules of the proposed courses).

Article 6 – Examinations and Assessments

The students must comply with the program and examination regulations in force in the partner institution in which they are studying.

Examination includes written or oral exams complemented by seminar presentation/discussions, project work, laboratory and/or fields reports. Details for each course will be made available to each candidate by both institutions at the beginning of the program. All examinations will take place in the institution where the units are taught. Examination can take place also through online platforms.

Each party undertakes to keep appropriate records of the students attending the program at their institution and to provide all students and partners the certification of the student's career.

In the last semester before the thesis defense, the students are responsible to ensure the delivery of the number of credits obtained and the marks through the transcript of records released in English to the home institution's academic office before the established local deadlines, so to ensure the student achievements would be validated on time.

A single Master Thesis Defense Committee and Oral Examination will be organized at only one location (either UniCa or TMU) in accordance with the regulations of both institutions. Committee members for the thesis will include members of both institutions who will participate in presence or online. To receive the dual Master degree, awarded separately by UniCa and TMU in two parchments, the student who entered the program must complete all courses and meet all requirements from both institutions during the designated study period, including completion of the final oral thesis defense.

After the completion of the requirements and a successful single thesis defense with juries from TMU and UniCa, UniCa will award a degree entitled Master in Cellular and Molecular Biology and TMU will award a degree entitled Master of Science from the Graduate Institute of Medical Sciences or from the International Master Program in Medicine.

The nomination of the Master Thesis Defense Committee must comply with the regulations in force at the university where the defense takes place, ensuring that Master thesis supervisors (wherever placed at UniCa or TMU) will be included as members of the Master Thesis Defense Committee. The Master Thesis Defense Committee will be composed of a number of members in accordance with the regulations in force at the university where the defense takes place, including the Master thesis supervisor and co-advisor from the respective institution. The participation of the representatives of the partner university can be guaranteed in person or via videoconference.

Lack of Completion of the Dual Master Degree Program: If a student has been admitted to the partner institution and begins his or her coursework yet is unable, for any reason, to complete the academic requirements for a Master degree, such student may, if permitted by the home institutions, return to the home institution to continue and complete his or her Master degree program. Any credit hours earned from the partner institution may be transferred to the home institution in accordance with the regulations of such home institution. However, in such case, only a single Master degree will be awarded (by the home institution).

Student's Rights and Responsibilities

Article 7 – General Outlines

The students' rights and responsibilities are the same as those valid for each degree student at the institution where the student is studying at the time. The student must comply with the demands of the institution in question with regard to the documentation required for registration procedures and eventual visa purposes.

Both institutions shall provide, through the coordinators, appropriate information to students about the academic requirements, the services for the mobility, the administrative requirements and the financial regulations the mobility implies.

Article 8 – Secret and Publications

Without a prior written agreement by and between the parties, both parties and the student participating in this Dual Master Degree Program are expressly forbidden from sharing with any third party, under any form, information relative to confidential information of the other party.

The abovementioned specifications do not apply to information for which it would be possible to be proven:

- that the information is shared after the preliminary written authorizations of the parties are obtained;
- that was known by the receiving party at the time of disclosure to it by such disclosing party, or that is independently developed or discovered by the receiving party after disclosure by such disclosing party, without the aid, application or use of any item of such disclosing party's confidential information;
- that the information was accessible to the public at the time that it was shared, or that it had been made so after being communicated without fault on his or her behalf; or
- that the sharing was imposed by the application of an imperative law or regulation, a definitive court decision or an arbitral award. In this case, such party or the student must, as far as possible, alert the other party beforehand and, if need be, request the application of all measures or procedures for confidentiality possible in the given circumstances.

All communication or publication by the student participating in this Dual Master Degree Program of either party of information about his/her activity during the abroad stay under the Dual Master Degree Program should be submitted to the other party prior to release for authorization or modification. It shall be understood that the contribution of both parties should be mentioned in the aforementioned communications or publications.

Article 9 – Ownership of Results

Each party shall remain the owner of knowledge, whether patented or not, that it held before this Agreement takes effect or that it obtained outside of the Agreement's framework. Neither party may obtain the rights to the aforementioned knowledge of the other party under the present convention.

The student participating in this Dual Master Degree Program shall inform both parties of the existence of results incurred under the Dual Master Degree Program (the "RESULTS"). The student, UniCa, and TMU will decide together the distribution of their shares of co-ownership, as well as whether or not it is necessary to protect the RESULTS with a certificate of industrial property in another written agreement. In the case that UniCa and TMU become co-owners of the RESULTS, they commit to specifying, in a separate agreement, the terms of management for the property and the usage of the aforementioned RESULTS.

Article 10 – Services

Students participating in the Dual Master Degree Program shall benefit from all services offered by the host university. The services should be the same as those given to regular students at the respective institution. In addition to the regular services offered by each institution, each party undertakes to provide ad hoc services to non-EU students including support for obtaining visas and residence permits and support for local language courses, special integration activities, etc.

To the extent possible, UniCa shall assist incoming students of the Dual Master Degree Program in arranging suitable housing accommodations by providing a listing of possible living locations. At TMU, students under the Dual Master Degree Program may apply for student dormitory or rent off-campus apartments. The student of the Dual Master Degree Program shall be responsible for the accommodation costs.

Each party will endeavor to ensure that each TMU or UniCa student is suitably prepared for his/her overseas experience at TMU or UniCa, in academics as well as in appropriate matters of health and medicine, language preparation, local customs, and all other issues that may ease the learning and transition to university life at UniCa or TMU.

Article 11 – Insurance

Both parties undertake to cover each student admitted to the Dual Master Degree Program with insurance coverage for any accidents incurred within the university buildings and third-party liability for damage, which they may involuntarily cause to a person or their properties.

Students participating in the Dual Master Degree Program are required to obtain the appropriate health insurance if so required. Each party undertakes to provide appropriate information to students for their registration in the national health system or for the provision of other kinds of health insurance, which may be required either before their arrival or once they have registered at the host institution.

Article 12 – Prevention and Security

Both parties shall provide each Dual Master Degree Program participant with detailed information about the specific risk existing in the Dual Master Degree Program, in which they will operate and carry out their functions and will provide the necessary documentation about the prevention and emergency security measures and provisions in force in relation to their activities and about the individuals/subjects in charge of this, in conformity with the legislative norms and regulations in force in the country of the host institution.

Promotion of the Dual Master Degree Program

The promotion of the program is the responsibility of both parties. Each party agrees to use its name and logo for the purpose of promotional material, program literature and other documentation of the Dual Master Degree Program. The strategy for promoting the Dual Master Degree Program will be discussed annually by the parties; the strategy for promoting the Dual Master Degree Program shall include at least a webpage on the website of each party dedicated to the Dual Master Degree Program.

Financial Conditions

As far as possible, the mobility for students and staff will be made within the different programs of funding in the home institution and home country. Mission expenses for staff will be borne by the staff or home university according to existing regulations.

Amendment & Written Notice

Mutual written consent of both parties is required for all and any changes and amendments to the Agreement. All official communication between the parties under this Agreement shall be by written notice and shall be sent via email to the other party.

Disputes and Applicable Law

Both parties shall take every possible measure to solve any dispute amicably regarding to this Agreement. The interpretation of this Agreement and the adjudication of any claim or dispute arising therefrom, shall be in accordance with the laws of the country of the defending party and each and every cause of action shall be regarded as having arisen within the jurisdiction of the courts of the country of the defending party.

Nothing in this Agreement shall be deemed to require a party to breach any mandatory statutory law under which that party is operating.

Privacy and Data Protection

If applicable, any laws and regulations regarding to privacy and data protection shall be complied with by both parties during the execution of the Dual Master Degree Program, with particular reference to the EU Regulation 2016/679 (General Data Protection Regulation – GDPR).

Duration of the Agreement & Miscellaneous

This Agreement shall be effective upon the date of signature by duly authorized representatives of both Institutions and shall remain in full force for a period of 5 years (the “Term”).

Either party may terminate this Agreement by giving a six (6) months’ written notice to the other party. However, students who have commenced their studies at any of the cooperating university at the date of termination are entitled to complete their courses of study and the program at both universities.

If both parties agree to terminate the Dual Master Degree Program and this Agreement, both parties are obliged to make arrangements for all students who have commenced their studies to complete their courses of study and the program in a satisfactory way.

This Agreement may be renewed by another written agreement at the end of the Term, subject to the negotiation of the parties of the specific modifications (program content, recruitment procedures, etc.) before the date of renewal.

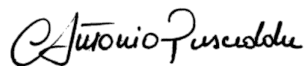
This Agreement is completed in English and is hereby signed in two (2) copies, with one (1) copy remaining in the possession of each party.

Signed in Cagliari,

on 29/09/2021

For
Faculty of Biology and Pharmacy,
University of Cagliari

Prof. Antonio Pusceddu
Coordinator of the Biology Programs



Prof. Alessandra Carucci
Vice-Rector for International Affairs

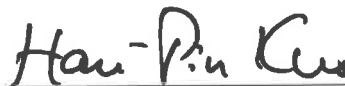


Signed in Taipei,

on Sep 24 '21

For
College of Medicine,
Taipei Medical University

Prof. Han Bin Kuo
Dean of the College of Medicine



Prof. Ruei-Ming Chen
Director, Graduate Institute of Medical Sciences



Prof. Shing-Chuan Shen
*Director, International Graduate Program in
Medicine*



Prof. Chieh-Hsi Wu
Vice-President for International Affairs



APPENDIX 1 – Master courses and required credits for DMDP

► (A) Course Mapping for UniCa Students

Type 1: UniCa Students Choosing IGPM at TMU

	YEAR 1	YEAR 2
Location of Teaching	UniCa	TMU (International Master Program in Medicine - IGPM)
School Score To Be Completed In Each Institution	65 credits (60 Courses / Optional Teaching Activities / Laboratory Practice / English Level credits + 5 Master Thesis Preparation)	16 TMU credits (10 Courses credits + 6 Dissertation credits + 700 Laboratory Hours)
Curriculum	<ul style="list-style-type: none"> • Courses: <ol style="list-style-type: none"> 1. [Mandatory] Bioinformatics (9 credits) 2. [Mandatory] Advanced Biological Methodologies (9 credits) 3. [Mandatory] Metabolic Biochemistry (7 credits) 4. [Mandatory] Molecular Virology (7 credits) 5. [Mandatory] Evolutionary Genomics (7 credits) 6. [Mandatory] Basis of Scientific Methodology (7 credits) • English (level B2) (3 credits) • Optional Teaching Activities (6 credits) • Laboratory Practice (5 credits) • Master Thesis Preparation (5 credits)¹ 	<ul style="list-style-type: none"> • Courses: <ol style="list-style-type: none"> 1. [Mandatory] A003E001 Research Ethics (0 credits) 2. [Mandatory] A014E003 Seminar (1 credit) 3. [Mandatory] A014E004 Seminar (1 credit) 4. [Elective] 3075E011 Molecular Biology in Nutrition (2 credits) 5. [Elective] 3515E002 Special Topics in Cell Therapy & Regeneration Medicine (2 credits) 6. [Elective] 3215E001 Molecular Cancer Biology (2 credits) 7. [Elective] A013E007 Tropical Medicine Research (2 credits) • Dissertation (6 credits) • 700 Laboratory Hours²
Subtotal	65 UniCa credits	16 TMU credits
	+ 55 converted UniCa credits	+ 17 converted TMU credits
Total	UniCa = 120 UniCa CREDITS TMU = 33 TMU CREDITS	

Note:

¹ Master Thesis Preparation (5 credits) from UniCa if taken in the first year at UniCa will be counted towards UniCa credits but not converted into TMU credits.

² Completion of the laboratory hours at TMU will be provided in form of a signed memo from the supervisor at TMU.

Course Credit Equivalence

UniCa Courses Year I

UniCa Courses Year II

TMU IGPM	UniCa
1. [Elective] 3105E192 Special Topics in	5. [Mandatory] Bioinformatics (9 credits)

Biomedical Informatics (2 credits)	
2. [Elective] 3105E189 Immunoinformatics (2 credits)	
3. [Elective] 3105E019 Seminar in Medical Informatics (1 credit)	
4. [Elective] 3105E062 Seminar in Medical Informatics (1 credit)	
6. [Mandatory] 3420E001 Experimental Principle & Methods (2 credits)	7. [Mandatory] Advanced Biological Methodologies (9 credits)
8. [Mandatory] A013E004 Molecular Biology (3 credits)	9. [Mandatory] Metabolic Biochemistry (7 credits)
10. [Group-Specific Core / Elective] A013E010 Special Topics in Immunology & Virology (2 credits)	11. [Mandatory] Molecular Virology (7 credits)
12. [Mandatory] A014E001 Seminar (1 credit)	14. [Mandatory] Evolutionary Genomics (7 credits)
13. [Mandatory] A014E002 Seminar (1 credit)	
15. [Mandatory] 3425E025 Medical Statistics (2 credits)	16. [Mandatory] Basis of Scientific Methodology (7 credits)
17. 500 Laboratory Hours	18. English Level B2 (3 credits) 19. Optional Teaching Activities (6 credits) 20. Laboratory Practice (5 credits)
21. [Elective] 3075E011 Molecular Biology in Nutrition (2 credits)	22. [Mandatory] Cellular and Molecular Basis of Nutrition (7 credits)
23. [Elective] 3515E002 Special Topics in Cell Therapy & Regeneration Medicine (2 credits)	25. [Mandatory] Cellular and Molecular Bases of Cancer and Tissue Regeneration (7 credits)
24. [Elective] 3215E001 Molecular Cancer Biology (2 credits)	
26. [Elective] A013E007 Tropical Medicine Research (2 credits)	27. [Mandatory] Molecular Microbiology (7 credits)
28. [Mandatory] A014E003 Seminar (1 credit)	31. Optional Teaching Activities (9 credits)
29. [Mandatory] A014E004 Seminar (1 credit)	32. Laboratory Practice (13 credits)
30. 700 Laboratory Hours ²	33. Master Thesis Preparation (12 credits)

Type 2: UniCa Students Choosing GIMS at TMU

	YEAR 1	YEAR 2
Location of Teaching	UniCa	TMU (Graduate Institute of Medical Sciences - GIMS)
School Score To Be Completed In Each Institution	65 credits (60 Courses / Optional Teaching Activities / Laboratory Practice / English Level credits + 5 Master Thesis Preparation)	16 TMU credits (10 Courses credits + 6 Dissertation credits + 700 Laboratory Hours)
Curriculum	<ul style="list-style-type: none"> • Courses: <ol style="list-style-type: none"> 1. [Mandatory] Bioinformatics (9 credits) 2. [Mandatory] Advanced Biological Methodologies (9 credits) 3. [Mandatory] Metabolic Biochemistry (7 credits) 4. [Mandatory] Molecular Virology (7 credits) 5. [Mandatory] Evolutionary Genomics (7 credits) 6. [Mandatory] Basis of Scientific Methodology (7 credits) • English (level B2) (3 credits) • Optional Teaching Activities (6 credits) • Laboratory Practice (5 credits) • Master Thesis Preparation (5 credits)¹ 	<ul style="list-style-type: none"> • Courses: <ol style="list-style-type: none"> 1. [Mandatory] A003E001 Research Ethics (0 credits) 2. [Mandatory] A014E003 Seminar (1 credit) 3. [Mandatory] A014E004 Seminar (1 credit) 4. [Elective] 3075E011 Molecular Biology in Nutrition (2 credits) 5. [Elective] 3515E002 Special Topics in Cell Therapy & Regeneration Medicine (2 credits) 6. [Elective] 3215E001 Molecular Cancer Biology (2 credits) 7. [Elective] A013E007 Tropical Medicine Research (2 credits) • Dissertation (6 credits) • 700 Laboratory Hours²
Subtotal	65 UniCa credits	16 TMU credits
	+ 55 converted UniCa credits	+ 17 converted TMU credits
Total	UniCa = 120 UniCa CREDITS TMU = 33 TMU CREDITS	

Note:

¹ Master Thesis Preparation (5 credits) from UniCa if taken in the first year at UniCa will be counted towards UniCa credits but not converted into TMU credits.

² Completion of the laboratory hours at TMU will be provided in form of a signed memo from the supervisor at TMU.

Course Credit Equivalence

UniCa Courses Year I

UniCa Courses Year II

TMU GIMS	UniCa
1. [Elective] 3105E192 Special Topics in Biomedical Informatics (2 credits)	5. [Mandatory] Bioinformatics (9 credits)
2. [Elective] 3105E189 Immunoinformatics (2 credits)	
3. [Elective] 3105E019 Seminar in Medical	

4. Informatics (1 credit) [Elective] 3105E062 Seminar in Medical Informatics (1 credit)	
6. [Mandatory] A0140006 Experimental Principle & Methods (2 credits)	7. [Mandatory] Advanced Biological Methodologies (9 credits)
8. [Mandatory] 31900026 Molecular Biology (3 credits)	9. [Mandatory] Metabolic Biochemistry (7 credits)
10. [Group-Specific Core / Elective] 31900087 Advanced Topics in Viral Infectious Diseases (2 credits)	11. [Mandatory] Molecular Virology (7 credits)
12. [Mandatory] A014E001 Seminar (1 credit)	14. [Mandatory] Evolutionary Genomics (7 credits)
13. [Mandatory] A014E002 Seminar (1 credit)	
15. [Mandatory] A0150002 Medical Statistics (2 credits)	16. [Mandatory] Basis of Scientific Methodology (7 credits)
17. 500 Laboratory Hours	18. English Level B2 (3 credits) 19. Optional Teaching Activities (6 credits) 20. Laboratory Practice (5 credits)
21. [Elective] 3075E011 Molecular Biology in Nutrition (2 credits)	22. [Mandatory] Cellular and Molecular Basis of Nutrition (7 credits)
23. [Elective] 31900079 Tumor Biology (2 credits)	25. [Mandatory] Cellular and Molecular Bases of Cancer and Tissue Regeneration (7 credits)
24. [Elective] 31900078 Stem Cells & Tissue Regeneration (2 credits)	
26. [Elective] 31900027 Special Topics in Applied Microbiology (2 credits)	27. [Mandatory] Molecular Microbiology (7 credits)
28. [Mandatory] A014E003 Seminar (1 credit)	31. Optional Teaching Activities (9 credits) 32. Laboratory Practice (13 credits) 33. Master Thesis Preparation (12 credits)
29. [Mandatory] A014E004 Seminar (1 credit)	
30. 700 Laboratory Hours ²	

► (B) Course Mapping for TMU GIMS Students

	YEAR 1	YEAR 2
Location of Teaching	TMU (Graduate Institute of Medical Sciences - GIMS)	UniCa
School Score To Be Completed In Each Institution	16 TMU credits (10 Course credits + 6 Dissertation credits + 500 Laboratory Hours)	64 credits (52 Courses / Optional Teaching Activities / Laboratory Practice / English Level credits + 12 Master Thesis Preparation credits)
Curriculum	<ul style="list-style-type: none"> • Courses: <ol style="list-style-type: none"> 1. [Mandatory] A0030001 Research Ethics (0 credits) 2. [Mandatory] A014E001 Seminar (1 credit) 3. [Mandatory] A014E002 Seminar (1 credit) 4. [Mandatory] A0140006 Experimental Principle & Methods (2 credits) 5. [Group-Specific Core / Elective] 31900087 Advanced Topics in Viral Infectious Diseases (2 credits) 6. [Mandatory] A0150002 Medical Statistics (2 credits) 7. [Elective] 31900027 Special Topics in Applied Microbiology (2 credits) • 500 Laboratory Hours¹ • Dissertation (6 credits)² 	<ul style="list-style-type: none"> • Courses: <ol style="list-style-type: none"> 1. [Mandatory] Bioinformatics (9 credits) 2. [Mandatory] Metabolic Biochemistry (7 credits) 3. [Mandatory] Cellular and Molecular Bases of Cancer and Tissue Regeneration (7 credits) 4. [Mandatory] Cellular and Molecular Basis of Nutrition (7 credits) • Optional Teaching Activities (9 credits) • Laboratory Practice (13 credits) • Master Thesis Preparation (12 credits)
Subtotal	16 TMU credits	64 UniCa credits
	+ 17 converted TMU credits	+ 56 converted UniCa credits
Total	TMU = 33 TMU CREDITS UniCa = 120 UniCa CREDITS	

Note:

¹ Completion of the laboratory hours at TMU will be provided in form of a signed memo from the supervisor at TMU.

² The Dissertation (6 credits) from TMU is listed for conversion (see Course Credit Equivalence table below) to obtain Master Thesis Preparation (5 credits) from UniCa but not the other way around.

Course Credit Equivalence

UniCa Courses Year I

UniCa Courses Year II

TMU GIMS	UniCa
1. [Elective] 3105E192 Special Topics in Biomedical Informatics (2 credits)	5. [Mandatory] Bioinformatics (9 credits)
2. [Elective] 3105E189 Immunoinformatics (2 credits)	

3. [Elective] 3105E019 Seminar in Medical Informatics (1 credit)	
4. [Elective] 3105E062 Seminar in Medical Informatics (1 credit)	
6. [Mandatory] A0140006 Experimental Principle & Methods (2 credits)	7. [Mandatory] Advanced Biological Methodologies (9 credits)
8. [Mandatory] 31900026 Molecular Biology (3 credits)	9. [Mandatory] Metabolic Biochemistry (7 credits)
10. [Group-Specific Core / Elective] 31900087 Advanced Topics in Viral Infectious Diseases (2 credits)	11. [Mandatory] Molecular Virology (7 credits)
12. [Mandatory] A014E001 Seminar (1 credit)	14. [Mandatory] Evolutionary Genomics (7 credits)
13. [Mandatory] A014E002 Seminar (1 credit)	
15. [Mandatory] A0150002 Medical Statistics (2 credits)	16. [Mandatory] Basis of Scientific Methodology (7 credits)
17. 500 Laboratory Hours ¹	18. English Level B2 (3 credits)
	19. Optional Teaching Activities (6 credits)
	20. Laboratory Practice (5 credits)
21. Dissertation (6 credits) ²	22. Master Thesis Preparation (5 credits)
23. [Elective] 3075E011 Molecular Biology in Nutrition (2 credits)	24. [Mandatory] Cellular and Molecular Basis of Nutrition (7 credits)
25. [Elective] 31900079 Tumor Biology (2 credits)	27. [Mandatory] Cellular and Molecular Bases of Cancer and Tissue Regeneration (7 credits)
26. [Elective] 31900078 Stem Cells & Tissue Regeneration (2 credits)	
28. [Elective] 31900027 Special Topics in Applied Microbiology (2 credits)	29. [Mandatory] Molecular Microbiology (7 credits)
30. [Mandatory] A014E003 Seminar (1 credit)	33. Optional Teaching Activities (9 credits)
31. [Mandatory] A014E004 Seminar (1 credit)	34. Laboratory Practice (13 credits)
32. 700 Laboratory Hours	35. Master Thesis Preparation (12 credits)

► (C) Course Mapping for TMU IGPM Students

	YEAR 1	YEAR 2
Location of Teaching	TMU (International Master Program in Medicine - IGPM)	UniCa
School Score To Be Completed In Each Institution	16 TMU credits (10 Course credits + 6 Dissertation credits + 500 Laboratory Hours)	64 credits (52 Courses / Optional Teaching Activities / Laboratory Practice / English Level credits + 12 Master Thesis Preparation credits)
Curriculum	<ul style="list-style-type: none"> • Courses: <ol style="list-style-type: none"> 1. [Mandatory] A003E001 Research Ethics (0 credits) 2. [Mandatory] A014E001 Seminar (1 credit) 3. [Mandatory] A014E002 Seminar (1 credit) 4. [Mandatory] 3420E001 Experimental Principle & Methods (2 credits) 5. [Group-Specific Core / Elective] A013E010 Special Topics in Immunology & Virology (2 credits) 6. [Mandatory] 3425E025 Medical Statistics (2 credits) 7. [Elective] A013E007 Tropical Medicine Research (2 credits) • 500 Laboratory Hours¹ • Dissertation (6 credits)² 	<ul style="list-style-type: none"> • Courses: <ol style="list-style-type: none"> 1. [Mandatory] Bioinformatics (9 credits) 2. [Mandatory] Metabolic Biochemistry (7 credits) 3. [Mandatory] Cellular and Molecular Bases of Cancer and Tissue Regeneration (7 credits) 4. [Mandatory] Cellular and Molecular Basis of Nutrition (7 credits) • Optional Teaching Activities (9 credits) • Laboratory Practice (13 credits) • Master Thesis Preparation (12 credits)
Subtotal	16 TMU credits	64 UniCa credits
	+ 17 converted TMU credits	+ 56 converted UniCa credits
Total	TMU = 33 TMU CREDITS UniCa = 121 UniCa CREDITS	

Note:

1. Completion of the laboratory hours at TMU will be provided in form of a signed memo from the supervisor at TMU.
2. The Dissertation (6 credits) from TMU is listed for conversion (see Course Credit Equivalence table below) to obtain Master Thesis Preparation (5 credits) from UniCa but not the other way around.

Course Credit Equivalence

UniCa Courses Year I

UniCa Courses Year II

TMU IGPM	UniCa
1. [Elective] 3105E192 Special Topics in Biomedical Informatics (2 credits)	5. [Mandatory] Bioinformatics (9 credits)
2. [Elective] 3105E189 Immunoinformatics (2 credits)	
3. [Elective] 3105E019 Seminar in Medical	

Informatics (1 credit) 4. [Elective] 3105E062 Seminar in Medical Informatics (1 credit)	
6. [Mandatory] 3420E001 Experimental Principle & Methods (2 credits)	7. [Mandatory] Advanced Biological Methodologies (9 credits)
8. [Mandatory] A013E004 Molecular Biology (3 credits)	9. [Mandatory] Metabolic Biochemistry (7 credits)
10. [Group-Specific Core / Elective] A013E010 Special Topics in Immunology & Virology (2 credits)	11. [Mandatory] Molecular Virology (7 credits)
12. [Mandatory] A014E001 Seminar (1 credit)	14. [Mandatory] Evolutionary Genomics (7 credits)
13. [Mandatory] A014E002 Seminar (1 credit)	
15. [Mandatory] 3425E025 Medical Statistics (2 credits)	16. [Mandatory] Basis of Scientific Methodology (7 credits)
17. 500 Laboratory Hours ¹	18. English Level C1 (3 credits) 19. Optional Teaching Activities (6 credits) 20. Laboratory Practice (5 credits)
21. Dissertation (6 credits) ²	22. Master Thesis Preparation (5 credits)
23. [Elective] 3075E011 Molecular Biology in Nutrition (2 credits)	24. [Mandatory] Cellular and Molecular Basis of Nutrition (7 credits)
25. [Elective] 3515E002 Special Topics in Cell Therapy & Regeneration Medicine (2 credits)	27. [Mandatory] Cellular and Molecular Bases of Cancer and Tissue Regeneration (7 credits)
26. [Elective] 3215E001 Molecular Cancer Biology (2 credits)	
28. [Elective] A013E007 Tropical Medicine Research (2 credits)	29. [Mandatory] Molecular Microbiology (7 credits)
30. [Mandatory] A014E003 Seminar (1 credit)	33. Optional Teaching Activities (9 credits) 34. Laboratory Practice (13 credits) 35. Master Thesis Preparation (12 credits)
31. [Mandatory] A014E004 Seminar (1 credit)	
32. 700 Laboratory Hours	

APPENDIX 2 – Mobility Schedule

► (1) Example of Mobility Schedule for UniCa M.Sc. Students

Type A			
Year	Semester	Location	UniCa Student Activity
M.Sc.1	Fall	UniCa	<ul style="list-style-type: none"> • Curriculum in Progress • <u>October</u>: Dual Degree application for the intended Master Program TMU
	Spring	UniCa	<ul style="list-style-type: none"> • Curriculum in Progress
	Summer	UniCa	<ul style="list-style-type: none"> • Curriculum in Progress • <u>August</u>: Eligible to start the abroad stay at TMU
M.Sc.2	Fall	TMU	<ul style="list-style-type: none"> • Curriculum in Progress • Credit transfer from UniCa to TMU
	Spring	TMU	<ul style="list-style-type: none"> • Curriculum in Progress • Graduation Photo Taken for TMU Diploma
	Summer	TMU / UniCa	<ul style="list-style-type: none"> • Curriculum in Progress • <u>March</u>: Presentation of preliminary thesis content to professors' board • <u>July</u>: Thesis defence • Graduation

► (2) Example of Mobility Schedule for TMU M.Sc. Students in Graduate Institute of Medical Sciences (GIMS) and International Graduate Program in Medicine (IGPM)

Type A			
Year	Semester	Location	TMU Student Activity
M.Sc. Year 1	Fall	TMU	<ul style="list-style-type: none"> Curriculum in Progress
	Spring	TMU	<ul style="list-style-type: none"> Curriculum in Progress
	Summer	TMU	<ul style="list-style-type: none"> Curriculum in Progress Graduation photo taken for TMU diploma <u>June</u>: Dual Degree application for the intended Master Program at UniCa
M.Sc. Year 2	Fall	UniCa	<ul style="list-style-type: none"> <u>September/October</u>: Eligible to start the abroad stay at UniCa <u>October</u>: **For TMU GIMS— Submit progress report (signed by supervisors from UniCa and TMU) Curriculum in Progress
	Spring	UniCa	<ul style="list-style-type: none"> Curriculum in Progress Credit transfer from UniCa to TMU
	Summer	TMU UniCa /	<ul style="list-style-type: none"> Curriculum in Progress <u>March</u>: Presentation of annual research and thesis contents to professors' board <u>July</u>: Thesis defence Graduation

Type B			
Year	Semester	Location	TMU Student Activity
M.Sc. Year 1	Fall	TMU	<ul style="list-style-type: none"> <u>June-September</u>: Dual Degree application for the intended Master Program at UniCa Curriculum in Progress
	Spring	UniCa	<ul style="list-style-type: none"> <u>February</u>: Start abroad stay at UniCa Curriculum in Progress
	Summer	UniCa	<ul style="list-style-type: none"> Curriculum in Progress
M.Sc. Year 2	Fall	UniCa	<ul style="list-style-type: none"> Curriculum in Progress <u>October</u>: **For TMU GIMS —Submit progress report (signed by supervisors from UniCa and TMU)
	Spring	TMU	<ul style="list-style-type: none"> Return to TMU Curriculum in Progress Credit transfer from UniCa to TMU Graduation photo taken for TMU diploma
	Summer	TMU UniCa /	<ul style="list-style-type: none"> Curriculum in Progress <u>March</u>: Presentation of annual research and thesis contents to professors' board <u>July</u>: Thesis defence Graduation

*TMU students may also choose to complete their program at UniCa if they meet the requirement from both institutions as detailed in this agreement. In such case, it is the **student's responsibility** to ensure that the necessary paperwork and documentation concerning oversea thesis defense, thesis submission, and degree completion procedures conform to TMU regulations. All documents must arrive by the deadline set by TMU to ensure completion of the degree.

APPENDIX 3 – Contacts

	Master Degree Program in Cellular and Molecular Biology [UniCa]	Master Program in Graduate Institute of Medical Sciences (GIMS) and International Master Program in Medicine (IGPM) [TMU]
Head of the Master Degree	Prof. Antonio Pusceddu apusceddu@unica.it	Prof. Ruei-Ming Chen (GIMS) rmchen@tmu.edu.tw Prof. Shing-Chuan Shen (IGPM) scshen@tmu.edu.tw
Coordinator for the dual degree program	Prof. Enzo Tramontano tramon@unica.it	Ms. Shih-Bin Fang, chun0415@tmu.edu.tw
Department Administration Manager/	Ms. Grazia Contu grazia.contu@amm.unica.it Teaching manager Faculty of Biology and Pharmacy	Ms. Chien-Pei Lu (GIMS) lu99@tmu.edu.tw International Graduate Program in Medicine (IGPM) igpm@tmu.edu.tw
Division of Student Administration	Ms. Anna Rita Piludu apiludu@amm.unica.it	Same Contacts as Above
Registration and Tutor	Same Contacts as Above	Same Contacts as Above