

Certificate Number: 248/2020/AO  
Institution Identification Number: FI17198  
HUQF Level: 7  
EQF Level: 7

# DEGREE CERTIFICATE

It is hereby certified that

**Giorgi Tchitashvili**

(born Giorgi Tchitashvili, on 1 October 1994 in Abasha, Georgia) having completed an approved master's degree programme and fulfilled the academic requirements of the

**University of Debrecen**

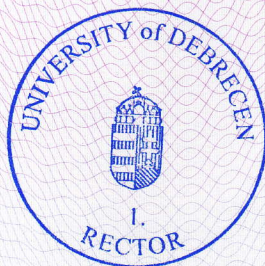
was duly admitted to the degree of Master in Molecular Biology and has qualified as a

**Molecular Biologist.**

The duration of the programme of study was 4 semesters.

Overall classification of the qualification: good.

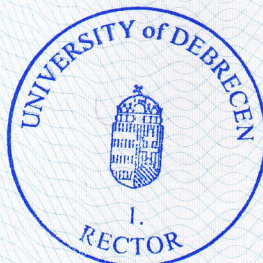
Debrecen, 30 July 2020



Rector

**Clause:** The bearer of this certificate completed the programme of study and took the examinations in the **English** language. The bearer of this certificate fulfilled the requirements of the **Immunology, Cell and Microbiology** specialisation.

Debrecen, 30 July 2020



Rector



# DIPLOMA SUPPLEMENT



Number of diploma in the registry of diplomas: 248/2020/AO, year: 2020

## 1. HOLDER OF THE QUALIFICATION

- |   |  |
|---|--|
| 1.1. Family name(s)<br>Tchitashvili   | 1.2. Given name(s)<br>Giorgi   |
| 1.3. Born country, Born place, Date of birth<br>(day/month/year)<br>Georgia, Abasha, 01.10.1994 | 1.4. Student identification number or code (if available)<br>JPV87D, 73349223084 |
|   | 1.5. Number of registry<br>T111544/FI17198                                       |

## 2. INFORMATION ON IDENTIFYING OF THE QUALIFICATION

- 2.1. Name of qualification and (if applicable) title conferred  
Molecular Biologist
- 2.2. Main field(s) of study for the qualification  
Molecular Biology
- 2.3. Name and status of awarding institution  
University of Debrecen, FI17198, state university
- 2.4. Name and status of institution (if different from 2.3) administering studies  
University of Debrecen Faculty of Medicine
- 2.5. Language(s) of instruction/examination  
English

## 3. INFORMATION ON THE LEVEL OF THE QUALIFICATION

- |   |  |
|---|--|
| 3.1. Level of qualification, EQF Level<br>MA/MSc<br>7 | 3.2. Official length of program<br>4 semesters |
|---|--|
- 3.3. Access requirements  
1. At least Bachelor's degree in on of the subjects: Biology, Chemistry, Ecology, Natural Sciences, Bioengineering and Agriculture, Medical and Health sciences.

Giorgi Tchitashvili

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2. The students must have at least 60 credit points in the following fields:

- at least 10 credit points in the general field of natural sciences (biology, physics, chemistry),
- at least 50 credit points in topics directly related to the molecular biology training, like anatomy, physiology, biochemistry, evolutionary biology, genetics, microbiology, basic knowledge in molecular biology, botany, population genetics, cell biology and cellular physiology.

The requirement for the admission to the Molecular Biology Master's program is at least 40 credit points in the fields of knowledge listed above, the remaining credit points (to have at least 60 as described above) within 2 semesters from the admission to the Master's program.

#### 4. INFORMATION ON THE CONTENTS AND RESULTS GAINED

##### 4.1. Program requirements

###### 4.1.1. Program requirements act number

15/2006. (IV. 3.) OM, MNR 18/2016. (VIII. 5.)

###### 4.1.2. Aim of study

The goal of the studies is to train specialists who are familiar with the most important results, application, perspectives and methodology in the field of molecular biology. These specialists are expected to be able to approach the problems from a multidisciplinary point of view. They should be able to apply methods on their own using the techniques of molecular biology in the field of basic and applied research. They are expected to carry out innovative activities in addition to analyzing and interpreting the results and take an active part in the further development of their scientific field. They should be able to continue their studies in a relevant PhD program on the basis of their acquired knowledge.

###### 4.1.3. Required number of credit points

120

###### 4.1.4. System of knowledge checking

Exams (five-grade scale practice grade, End Semester Exam, Final Exam), State Exam: defending the thesis and oral part

###### 4.1.5. Required professional practice, credit value

##### 4.2. Program details and the individual grades / marks / credits obtained

###### 4.2.1. Knowledge acquired during the programme of study (requirement designation, credit points, marks)

Subject	Subject code	Lessons per week(W) semester(S)	Requirement	Credit	Grade	Term
Biochemistry of Metabolism	AO_MBE_ACS01	S: 28/0/14	Exam	4	Satisfactory (3)	2018/19/1





Subject	Subject code	Lessons per week(W) semester(S)	Requirement	Credit	Grade	Term
Biochemistry Practical I	AO_MBE_BKG3	S: 0/42/0	Term grade (on five-grade scale)	2	Excellent (5)	2018/19/1
Human Physiology I.	AO_MBE_HET01	S: 28/0/0	Exam	3	Satisfactory (3)	2018/19/1
Medical Genom Biology	AO_MBE_GRB01	S: 28/0/0	Exam	3	Excellent (5)	2018/19/1
Medical Genom Biology Practicals	AO_MBE_GRG01	S: 0/42/0	Term grade (on five-grade scale)	2	Satisfactory (3)	2018/19/1
Molecular Genetics	AO_MBE_GEN01	S: 28/28/0	Exam	4	Good (4)	2018/19/1
Molecular Immunology	AO_MBE_IMM01	S: 28/0/10	Exam	3	Good (4)	2018/19/1
Radioisotope Techniques in Biomedicine Practicals	AO_MBE_ITG01	S: 0/14/0	Term grade (on five-grade scale)	1	Good (4)	2018/19/1
Work and Fire Safety	AOFOGY_WFS	S:	Lecturer's signature	0	Signed	2018/19/1
Bioinformatics	AO_MBE_BIE02	S: 28/0/0	Exam	3	Excellent (5)	2018/19/2
Bioinformatics Practicals	AO_MBE_BIG02	S: 0/14/0	Term grade (on five-grade scale)	1	Excellent (5)	2018/19/2
Cell and Organ Biochemistry	AO_MBE_CBI02	S: 28/14/14	Exam	4	Satisfactory (3)	2018/19/2
Human Physiology II.	AO_MBE_HET02	S: 28/0/0	Exam	3	Good (4)	2018/19/2
Human Physiology Practicals	AO_MBE_HEG02	S: 0/28/0	Term grade (on five-grade scale)	2	Good (4)	2018/19/2
Physiology of Prokaryotes and Molecular Virology	AO_MBE_PRO02	S: 28/14/0	Exam	4	Good (4)	2018/19/2
Problem-solving Exercises in Molecular Biology	AO_MBE_PMF02	S: 0/45/0	Term grade (on five-grade scale)	2	Excellent (5)	2018/19/2
Thesis I.	AO_MB_DD02	S: 0/75/0	Term grade (on five-grade scale)	5	Excellent (5)	2018/19/2
Bio Inorganic Chemistry	AO_MBE_BSZ03	S: 28/0/0	Exam	3	Good (4)	2019/20/1
Biochemistry of Apoptosis	AO_MBE_ABI03	S: 28/0/0	Exam	3	Excellent (5)	2019/20/1
Biophysics	AO_MBE_BIF01	S: 28/0/0	Exam	3	Excellent (5)	2019/20/1
Gene Expression Regulation – Functional Genomics	AO_MBE_GES03	S: 14/28/0	Exam	3	Pass (2)	2019/20/1
Genomic Bioinformatics	AO_MBE_BGI02	S: 14/28/0	Exam	3	Good (4)	2019/20/1
Impaired Signal Transduction in the Immune System	AO_MBE_ITZ03	S: 15/0/0	Exam	2	Excellent (5)	2019/20/1
Introduction to Molecular Medicine	AO_MBE_IMM03	S: 25/0/0	Exam	2	Excellent (5)	2019/20/1
Methods of Molecular Biology	AO_MBE_MBE01	S: 28/0/0	Exam	3	Good (4)	2019/20/1
Radioisotope Techniques in Biomedicine	AO_MBE_ITE01	S: 28/0/0	Exam	3	Pass (2)	2019/20/1
Signalling Pathways in the Cells	AO_MBE_SJF03	S: 28/0/0	Exam	3	Excellent (5)	2019/20/1
Thesis II.	AO_MB_DD03	S: 0/150/0	Term grade (on five-grade scale)	10	Excellent (5)	2019/20/1
Basis of Conventional and Biological Immunotherapies	AO_MBE_HBI03	S: 30/0/0	Exam	2	Excellent (5)	2019/20/2
Biostatistics	AO_MBE_BST02	S: 14/0/0	Exam	1	Pass (2)	2019/20/2
Cell Biology	AO_MBE_SBI022	S: 28/0/0	Exam	3	Good (4)	2019/20/2
Immunological Methods In Molecular Biology	AO_MBE_IMM02	S: 15/15/0	Exam	3	Pass (2)	2019/20/2
Methods in Molecular Biology Practicals	AO_MBE_MBG01	S: 0/46/0	Term grade (on five-grade scale)	2	Excellent (5)	2019/20/2
New System Biology Paradigms in Immunology	AO_MBE_UPI02	S: 0/0/11	Exam	3	Excellent (5)	2019/20/2
Nobel prize and molecular biology	AOG4871203	S: 14/0/0	Exam	1	Good (4)	2019/20/2
Physical Education	SI-003	S: 0/28/0	Lecturer's signature	0	Signed	2019/20/2
Plant Molecular Biology	AO_MBE_NBI02	S: 28/28/0	Exam	4	Good (4)	2019/20/2
Proteomics	AO_MBE_PRO04	S: 28/28/0	Exam	4	Good (4)	2019/20/2
Thesis III.	AO_MB_DD04	S: 0/225/0	Term grade (on five-grade scale)	15	Excellent (5)	2019/20/2

\*Lessons per week (W) / semester (S) \*If the number of lessons contains / marks, like in le/p/ly, its meaning is: number of lectures/class practices/laboratories.



Number of credits: 122

4.2.2. Knowledge acquired earlier and during parallel or exchange programmes of study  
(requirement designation, credit points)

Subject name	Subject code	Recognised	Requirement	Credit	Grade	Date
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Number of credits: 0

4.2.3. Recognised knowledge acquired informally or during work and other experience  
(requirement designation, credit points)

Subject name	Subject code	Recognised	Requirement	Credit	Grade	Date
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Number of credits: 0

Total number of credits: 122

4.3. Grading scheme and, if available, grade distribution guidance

The grading system is a five-grade scale: excellent (5), good (4), satisfactory (3), pass (2), fail (1).

The completion of the course is certified by signature in activities where no grading is being made (e.g. physical education).

4.4. Overall classification of the qualification  
good (4,5)

## 5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1. Access to further study

Graduated students should be able to continue their studies in a relevant PhD program on the basis of their acquired knowledge.

5.2. Professional status (if applicable)

Eligible for PhD training and entitled with the Master's degree (MSc.) in Molecular Biology.

## 6. ADDITIONAL INFORMATION

6.1. Information concerning the holder of the diploma





## 6.2. Information on the Institution

## UNIVERSITY OF DEBRECEN

## Date of Foundation:

1912 Hungarian Royal University of Sciences

2000 University of Debrecen

## Legal predecessors:

Debrecen University of Agricultural Sciences

Debrecen Medical University

Wargha István College of Education, Hajdúböszörmény

Kossuth Lajos University of Arts and Sciences

Balásházy János Agricultural and Economic Secondary Technical School and Student Residence Hall

Kenézy Gyula Hospital and Outpatient Clinic

John von Neumann University

Legal status of the University of Debrecen: state university

Founder of the University of Debrecen: State Parliament

Supervisory body of the University of Debrecen: Ministry of Human Capacities

## Accreditation date and statute number:

University of Debrecen: 23 February 2018, 2018/2/VI/1. MAB

Number of Faculties at the University of Debrecen: 14

1. Faculty of Law
2. Faculty of Medicine
3. Faculty of Humanities
4. Faculty of Health
5. Faculty of Dentistry
6. Faculty of Economics and Business (before 1 August 2014 the predecessors of the Faculty were the Faculty of Applied Economics and Rural Development and the Faculty of Economics and Business Administration)
7. Faculty of Education for Children and Special Educational Needs (before 1 February 2018 the name of the Faculty was Faculty of Child and Adult Education)
8. Faculty of Pharmacy
9. Faculty of Informatics
10. Faculty of Agricultural and Food Sciences and Environmental Management (before 1 March 2010 the name of the Faculty was the Faculty of Agriculture)
11. Faculty of Engineering
12. Faculty of Public Health
13. Faculty of Sciences and Technology
14. Faculty of Music

Number of accredited programmes at the University of Debrecen:

## Pre-Bologna programmes

73 degree programmes with the pre-Bologna 5-year-system university education, 41 supplementary degree programmes offering transfer-degree continuation of studies towards the university degree (MSc), 50 degree programmes with the pre-Bologna 3-year-system college education

## Bologna-type programmes

73 BSc and 87 MSc programmes according to the Bologna system, 6 unified one-cycle



linear training programmes, 14 specializations offering post-secondary vocational certificates and 261 vocational programmes.

Number of students at the University of Debrecen (15 Oct, 2019): 28593

Full time teachers of the University of Debrecen: 1541

of which 1214 lecturers hold a PhD. The number of full college/university professors is 208.

### 6.3. Further information sources

## 7. CERTIFICATION OF THE SUPPLEMENT

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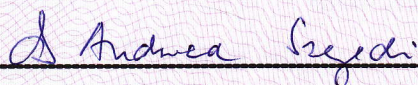
7.1. Date

30.07.2020

7.4. Official stamp or seal

7.2. Name and signature

László Mátyus M.D., Ph.D., D.Sc.





7.3. Capacity

Dean

## 8. INFORMATION ON THE HUNGARIAN HIGHER EDUCATION SYSTEM

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(modified in April 2020)

### 8.1. Types of Institutions and Institutional Control

The establishment and operation of higher education institutions are regulated by Act No. 204 of 2011 (National Higher Education Act). Operating within the legal framework of the National Higher Education Act, Hungarian higher education institutions are recognized state (public) or non-state (church or private) institutions. The list of recognized institutions is indicated in Annex 1 of the National Higher Education Act. Higher education studies are offered at two types of higher education institutions, egyetem (university) and főiskola (college). Universities and colleges may offer courses in all three training cycles. The programmes are identical at both types of institutions.

### 8.2. Types of Programmes and Degrees Awarded

The consecutive training cycles of higher education leading to a higher education degree are alapképzés (Bachelor course), mesterképzés (Master course) and doktori képzés (Doctoral course). In cases set by government decree or legislation, Master degrees can also be awarded after the completion of integrated, one-tier training.

In addition to the aforementioned, higher education institutions may conduct non-degree vocational higher education programmes and postgraduate specialist trainings and may offer adult education within the framework of lifelong learning as well.

Higher education institutions apply a credit system based on the European Credit Transfer and Accumulation System. Accordingly, one credit stands for an average of 30 hours of student workload.





### 8.3. Approval/Accreditation of Programmes and Degrees

In the case of each vocational higher education programme, Bachelor and Master course, the programme and outcome requirements are set in legal regulations, i.e. the level of the training, the professional qualification that can be obtained and all the competencies the acquisition of which are the preconditions for obtaining the diploma in the given programme.

Upon request of the higher education institution, the Educational Authority – after having obtained the expert opinion of the Hungarian Accreditation Committee – licenses and registers the launching of all vocational higher education programmes, a Bachelor or Master courses or Doctoral schools. Also, the operating licenses of higher education institutions are revised by the Educational Authority in every 5 years, taking into account the expert opinion of the Hungarian Accreditation Committee. The above mentioned procedures apply for all recognized, state or non-state higher education institutions, except for religious studies, since the Hungarian Accreditation Committee and the Educational Authority have no competence over the quality assurance in this field. In the case of religious studies only the requirements in respect of infrastructure can be examined.

### 8.4. Organisation of Studies

Students studying in vocational higher education programmes, Bachelor and Master courses, as well as postgraduate specialist trainings complete their studies by passing a final examination. The final examination may consist of the defense of the degree thesis or diploma project, and additional oral, written or practical examinations.

#### 8.4.1. Vocational Higher Education Programmes

The diploma obtained on completion of a vocational higher education programme testifies a vocational higher education qualification, but it is not per se an academic degree. A vocational higher education programme requires the completion of at least 120 credits, and the duration of the programme is a minimum of 4 semesters.

#### 8.4.2. First/Second Cycle Degree Programmes

The first higher education degree is the alapfokozat (Bachelor degree) ending in a professional qualification. A Bachelor course requires the completion of 180 to 240 credits. The length of the programme is 6-8 semesters.

The second higher education degree is the mesterfokozat (Master degree) ending in a professional qualification. Based on a Bachelor course, Master courses require the completion of 60 to 120 credits. The length of the programme is 2-4 semesters.

#### 8.4.3. Integrated Programmes

The integrated, one-tier programmes, which are based on the secondary school leaving examination (érettségi vizsga), lead to mesterfokozat (Master degree), have the length of 10-12 semesters and require the completion of 300 to 360 credits. Besides teacher education, religious studies and some programmes of arts, e. g. the following programmes are offered as integrated programmes: veterinary medicine, architecture, dentistry, pharmaceuticals, law and medicine.

#### 8.4.4. Specialised Graduate Studies

Higher education institutions may also offer szakirányú továbbképzés (postgraduate specialist training) for Bachelor and Master degree holders in this type of a training. Through the completion of 60 to 120 credits a specialised qualification can be obtained. The length of the programme is 2-4 semesters.

#### 8.4.5. Doctoral Programmes

Doctoral courses that began before 1 September 2016 require the completion of at least 180 credits. The duration of the programme is 36 months.

Doctoral courses beginning after 1 September 2016 require the completion of at least 240 credits. The duration of the programme is 8 semesters. During the programme, at the end of the fourth semester a complex examination must be completed. The doctoral thesis must be submitted within three years after the completion of the examination.

Regardless the date of entering a doctoral course, either within the framework of the doctoral course or following it, through a separate degree obtaining procedure, the scientific degree "Doctor of Philosophy" (abbreviated as PhD),



or in the field of art “Doctor of Liberal Arts” (abbreviated as DLA) may be obtained. The maximum duration of the degree obtaining procedure is 2 years.

#### 8.5. Grading Scheme

The performance of students is generally assessed following a five-grade scale: excellent (5), good (4), satisfactory (3), pass (2), and fail (1) or a three-grade scale: pass with merit (5), pass (3), and unsatisfactory (1). Nevertheless, higher education institutions may also use other systems for assessment if they are comparable to those mentioned above.

#### 8.6. Access to Higher Education Programmes

The ranking of students applying for higher education programmes is primarily based on their secondary school grades and their érettségi vizsga (secondary school leaving examination) results or based solely on the latter. The requirement for admission to vocational higher education programmes, Bachelor and integrated Master courses is the secondary school leaving examination taken – as a rule – after the completion of the 12th grade of a secondary school, certified by the Érettségi bizonyítvány (secondary school leaving certificate). The admission to certain programmes may also be based on health or professional requirements or aptitude tests. To Master courses students holding a Bachelor degree can be admitted. To postgraduate specialist trainings students holding a Bachelor or a Master degree may be admitted. To Doctoral courses only applicants holding a Master degree can be admitted. Higher education institutions may set additional requirements for admission to Master, postgraduate specialist and Doctoral courses.

#### 8.7. Additional Sources of Information

Hungarian ENIC/NARIC<sup>5</sup>, Ministry for Innovation and Technology<sup>6</sup>, Educational Authority<sup>7</sup>, Hungarian Accreditation Committee<sup>8</sup>.

<sup>1</sup> Web site: [www.naric.hu](http://www.naric.hu)

<sup>2</sup> Web site: [www.kormany.hu/hu/innovacios-es-technologiai-minisztterium](http://www.kormany.hu/hu/innovacios-es-technologiai-minisztterium)

<sup>3</sup> Web site: [www.oktatas.hu](http://www.oktatas.hu)

<sup>4</sup> Web site: [www.mab.hu](http://www.mab.hu)

<sup>5</sup> Web site: [www.felvi.hu](http://www.felvi.hu)

