

UNIVERSITY OF OULU
Faculty of Biochemistry and Molecular Medicine

DEGREE CERTIFICATE
Master of Science

Quoc Bao Ngo (30 October 1996)

has attained the degree of Master of Science in Master's Programme in Biochemistry, as stipulated by the Government Decree on University Degrees (794/2004). Focus: Protein Science and Biotechnology, International Programme.

The extent of the degree is 120,00 credits and it includes the following studies:

Major Subject		
Biochemistry	115,00 cr	excellent (5)

The Master's thesis included in advanced studies has been approved with the grade *very good*.

Language and Communication Studies	5,00 cr
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Additional information: Ngo Quoc Bao has attained the degree of Master of Science in Biochemistry, with a focus on Protein Science and Biotechnology, as stipulated by the Government Decree on University Degrees (794/2004). As his mother tongue is neither Finnish nor Swedish and since the language of instruction of the degree was completely in English, the student has been exempted from the requisite Finnish and Swedish language skills referred to in subsection 1 of Section 6 of Government Decree on University Degrees (794/2004).

In addition to the lower degree (Bachelor of Science and Technology awarded 25.11.2017 from the Hanoi University of Science and Technology, Hanoi, Vietnam) the student has also completed 6 credits of Supplementary Studies.

The degree of Master of Science is a higher university degree stipulated by Universities Act (558/2009), the Government Decree on University Degrees (794/2004).

The extent of the degree is 120 credits. Courses are quantified according to the work load required. The average input of 1600 working hours needed for studies of one academic year corresponds to 60 credits.

To be awarded a degree, the student must complete advanced studies in the major subject or a corresponding entity or the advanced studies of a degree programme and the internship supervised by the university possibly included in the degree. The student must also complete sufficient studies in minor subject(s), unless these have been completed in education leading to a lower university degree.

The student must demonstrate that he/she has attained the objectives set for the degree, studies and thesis and the language proficiency referred to in the Government Decree on University Degrees.

The student must write a maturity essay which shows command of the topic of the thesis and of the Finnish or Swedish language. This does not concern a student who has been educated in a language other than Finnish or Swedish or a student who has been educated abroad. The language proficiency of such students shall be determined by the university.

The student need not demonstrate command of the Finnish or Swedish language in the maturity essay included in the higher university degree if he/she has demonstrated his/her command of the language in a maturity essay included in a lower university degree studied in same language.

Grades used for assessment of degree components:

- excellent (5)
- very good (4)
- good (3)
- satisfactory (2)
- sufficient (1)
- pass.



Oulu, July 31, 2020

Tuomo Glumoff
Education Dean

Piia Rantakokko
Lead Specialist, Academic Affairs

This certificate includes two attachments. The official transcript of study records and the Diploma Supplement for international use with sufficient information about the university and about the studies or study attainments recorded in the diploma or certificate, and about their level and status in the education system.

DIPLOMA SUPPLEMENT

The purpose of the Diploma Supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It is free from any value judgements, equivalence statements or suggestions about recognition. This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO.

1 INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

- | | |
|---|------------|
| 1.1 Last name(s) | Ngo |
| 1.2 Given name(s) | Quoc Bao |
| 1.3 Date of birth (day/month/year) | 30/10/1996 |
| 1.4 Student identification number or code | 2595856 |

2 INFORMATION IDENTIFYING THE QUALIFICATION

- | | |
|---|--|
| 2.1 Name of qualification and title conferred (in original language) | Filosofian maisteri
Master of Science |
| 2.2 Main field(s) of study for the qualification | Biochemistry |
| 2.3 Name (in original language) and status of awarding institution | Oulun yliopisto
(University of Oulu),
state recognised university.
The quality assurance system of the university has passed the audit conducted by the Finnish Education Evaluation Council. |
| 2.4 Name and status of institution (if different from 2.3) administering studies (in original language) | Not applicable |
| 2.5 Language(s) of instruction/examination | English |

3 INFORMATION ON THE LEVEL OF THE QUALIFICATION

- | | |
|--|--|
| 3.1 Level of qualification | Second cycle higher education degree (master level).
The degree is on level 7 in the National and the European Qualifications Framework. |
| 3.2 Official duration of programme in credits and/or years | At least 120 credits, appr. 2 years of full-time study |
| 3.3 Access requirement(s) | The admission requirement for the second-cycle university degree is a first-cycle degree or education of a corresponding level. There is numerus clausus, i.e. restricted entry, to all fields of study. |

4 INFORMATION ON THE CONTENTS AND RESULTS GAINED

- | | |
|--|--|
| 4.1 Mode of study | Full-time |
| 4.2 Programme learning outcomes | See 8, second-cycle university degree.
Compulsory studies in major subject: advanced studies, minimum of 60 credits; Master's thesis 20-40 credits.
Minor subject(s) can be chosen freely. |
| 4.3 Programme details (e.g. modules or units studied), and the individual grades/marks/credits obtained: | See transcript of records.
Thesis topic as follows:

Deciphering the effects of leptin single amino acid mutations on leptin/leptin receptor interactions using in silico techniques. |
| 4.4 Grading scheme and, if available, grade distribution guidance | See transcript of records for grading scheme. |



4.5 Overall classification of the qualification Not applicable

5 INFORMATION ON THE FUNCTION OF THE QUALIFICATION

5.1 Access to further study

Eligible for doctoral studies

5.2 Access to a regulated profession (if applicable)

Under the Finnish legislation, a person who has taken the degree of "filosofian maisteri" is qualified for posts or positions in the public sector for which the qualification requirement is a second-cycle higher education degree. In some cases, the qualification requirement also includes the completion of studies in certain specified fields of study.

The degree falls under the Article 11 of the Directive 2005/36/EC of the European Parliament and of the Council on the recognition of professional qualifications, level e.

6 ADDITIONAL INFORMATION

6.1 Additional information

Ngo Quoc Bao has attained the degree of Master of Science in Biochemistry, with a focus on Protein Science and Biotechnology, as stipulated by the Government Decree on University Degrees (794/2004). As his mother tongue is neither Finnish nor Swedish and since the language of instruction of the degree was completely in English, the student has been exempted from the requisite Finnish and Swedish language skills referred to in subsection 1 of Section 6 of Government Decree on University Degrees (794/2004). In addition to the lower degree (Bachelor of Science and Technology awarded 25.11.2017 from the Hanoi University of Science and Technology, Hanoi, Vietnam) the student has also completed 6 credits of Supplementary Studies.

6.2 Further information sources

University of Oulu, <http://www.oulu.fi/yliopisto/>
Ministry of Education and Culture, www.minedu.fi
The Finnish National Agency of Education, the ENIC: European Network of Information Centres in the European Region, and the NARIC: National Academic Recognition Information Centres in the European Union), and the National Coordination Point for the European Qualifications Framework (EQF), www.oph.fi/recognition, www.oph.fi/qualificationsframework
The Finnish Education Evaluation Centre, www.karvi.fi

7 CERTIFICATION OF THE SUPPLEMENT

7.1 Date

31/07/2020

7.2 Signature


Piia Rantakokko
Lead Specialist, Academic Affairs

7.3 Capacity

7.4 Official stamp or seal

8 INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

The description of the higher education system has been prepared by the Finnish National Agency of Education and approved by the Ministry of Education and Culture. See the enclosed attachment.

TRANSCRIPT OF RECORDS

1 (1)

24.08.2020

Ngo Quoc Bao

2595856

30.10.1996

Date of enrolment

01.08.2018

PRIMARY RIGHT OF STUDY

Decree on Degrees

Decree on Degrees 794/2004

Degree

Master of Science

Degree Programme

Master's Programme in Biochemistry

Area of specialization

Protein Science and Biotechnology, International Programme

Major subject

Biochemistry


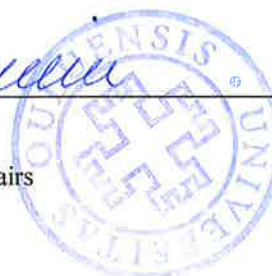
Valid 01.08.2018 - 31.07.2022

Date of
commencement 01.08.2018**COMPLETED COURSES****Other courses**

		Credits	Grade	Date	Examiner
A300095	Supplementary Studies	6,00	pass	30.07.2020	Kastaniotis
740080Y	Bridging studies	6,00	pass	31.08.2018	Kastaniotis

Total number of credits 6,00

Total of study units 6,00

SIGNATURE
Eeva-Kaisa Tuominen
Secretary, Academic Affairs

24.08.2020

Ngo Quoc Bao

2595856

301096-303Y

Kirjoilletulopvm

01.08.2018

Suoritukset

- 31.07.2020

SUORITETUN TUTKINNON OPINTO-OIKEUS

Tutkintoasetus	Tutkintoasetus 794/2004
Tutkinto	Filosofian maisteri, luonnontieteellinen ala
Koulutusohjelma	Biokemian maisteriohjelma
Suuntautumisvaihtoehto / opintosuunta	Protein Science and Biotechnology, International Programme
Pääaine	Biokemia
Voimassa	01.08.2018 - 31.07.2022
Aloituspvm	01.08.2018

SUORITETTU TUTKINTO

		Op	Suor.pvm	Hyväksyjä
FM-LUON	Filosofian maisteri, luonnontieteellinen ala	120,00	31.07.2020	BMTK

TUTKINTOON SISÄLTYVÄT OPINTOSUORITUKSET

Pääaine		Op	Arv.	Suor.pvm	Hyväksyjä
A3254	Biokemia	115,00	5	30.07.2020	Kastaniotis
A325403	Biokemian syventävät opinnot	115,00	hyv	30.07.2020	Kastaniotis
744691S	MSc thesis (Pro gradu)	30,00	4	09.06.2020	BMTK
	Deciphering the effects of leptin single amino acid mutations on leptin/leptin receptor interactions using in silico techniques.				
	Opinnäytetyö on tarkistettu viitteiden tarkistamiseen tarkoitettun Urkund-tietojärjestelmän avulla.				
740672S	Kypsyysnäyte (FM-tutkinto)	0,00	hyv	26.05.2020	BMTK
743663S	Developmental biology, stem cells and tissue engineering	5,00	5	10.06.2019	Rak-Raszewska, Vainio
743666S	Introduction to immunology	5,00	4	12.03.2019	Chen
744627S	Molecular biology II	5,00	hyv	24.10.2018	Dimova
744630S	Systems biology	5,00	5	18.04.2019	Wei
747615S	Introduction to structure-based drug discovery	5,00	4	08.04.2019	Lehtiö
747616S	Biochemical methodologies II	10,00	5	17.01.2019	Bergmann
747617S	Biochemistry and biotechnology of protein folding	5,00	5	27.05.2019	Ruddock
747618S	Protein production and analysis	10,00	4	19.11.2018	Ruddock
744628S	Orientation to research work	15,00	hyv	02.08.2019	Kastaniotis
744692S	MSc thesis, additional experimental work	20,00	hyv	13.03.2020	Kastaniotis

Opintopisteet yhteensä 115,00

Kieli- ja viestintäopinnot

A300091	Kieli- ja viestintäopinnot	5,00	hyv	30.07.2020	Kastaniotis
902154Y	Scientific Communication for Biochemists	5,00	hyv	02.05.2019	McAnsh



24.08.2020

Ngo Quoc Bao

2595856


301096-303Y

TUTKINTOON SISÄLTYVÄT OPINTOSUORITUKSET

	Op	Arv.	Suor.pvm	Hyväksyjä
Opintopisteet yhteensä 5,00				

Opiskelijan opintopisteet yhteensä 120,00

ALLEKIRJOITTAJA


Eeva-Kaisa Tuominen
Opintoasiainsihtööri

Tutkintojen laajuudet:

Kandidaatin tutkinto: 180 opintopistettä

Maisterin/Diplomi-insinöörin/Arkkitehdin tutkinto: 120 opintopistettä

Lääketieteen lisensiaatin tutkinto: 360 opintopistettä

Hammaslääketieteen lisensiaatin tutkinto: 300 opintopistettä (asetus 794/2004) tai 330 op (asetus 351/2011)

Yhden lukuvuoden opintojen suorittamiseen keskimäärin vaadittava 1 600 tunnin työpanos vastaa 60 opintopistettä.

Opintosuoritusten arvostelussa on käytössä kaksi asteikkoa: 1) numeerinen asteikko 0 - 5 kokonaislukuina, jossa nolla merkitsee hylättyä suoritusta; 2) sanallinen arvio hyväksytty (hyv) tai hylätty.

Tutkielmien arvostelussa on numeerisen asteikon lisäksi käytössä myös asteikko: L = laudatur, E = eximia cum laude approbatur, M = magna cum laude approbatur, C = cum laude approbatur, N = non sine laude approbatur, B = lubenter approbatur, A = approbatur. Lisensiaatintutkimusten ja väitöskirjojen arvostelussa on käytössä lisäksi asteikko kiittäen hyväksytty (khy), hyväksytty (hyv), hylätty.

24.08.2020

Ngo Quoc Bao

2595856

301096-303Y

Date of enrolment

01.08.2018

Completed courses

- 31.07.2020

RIGHT OF STUDY

Decree on Degrees

Decree on Degrees 794/2004

Degree

Master of Science

Degree Programme

Master's Programme in Biochemistry

Area of specialization

Protein Science and Biotechnology, International Programme

Major subject

Biochemistry

Valid 01.08.2018 - 31.07.2022

Date of commencement 01.08.2018

DEGREE

		Credits	Date	Examiner
FM-LUON	Master of Science	120,00	31.07.2020	FBMM

COMPLETED COURSES

Major Subject		Credits	Grade	Date	Examiner
A3254	Biochemistry	115,00	5	30.07.2020	Kastaniotis
A325403	Biochemistry, advanced studies	115,00	pass	30.07.2020	Kastaniotis
744691S	MSc thesis (Pro gradu)	30,00	4	09.06.2020	FBMM
	Deciphering the effects of leptin single amino acid mutations on leptin/leptin receptor interactions using in silico techniques. The thesis has been analysed in the Urkund anti-plagiarism system.				
740672S	Maturity test (M.Sc. degree)	0,00	pass	26.05.2020	FBMM
743663S	Developmental biology, stem cells and tissue engineering	5,00	5	10.06.2019	Rak-Raszewska, Vainio
743666S	Introduction to immunology	5,00	4	12.03.2019	Chen
744627S	Molecular biology II	5,00	pass	24.10.2018	Dimova
744630S	Systems biology	5,00	5	18.04.2019	Wei
747615S	Introduction to structure-based drug discovery	5,00	4	08.04.2019	Lehtiö
747616S	Biochemical methodologies II	10,00	5	17.01.2019	Bergmann
747617S	Biochemistry and biotechnology of protein folding	5,00	5	27.05.2019	Ruddock
747618S	Protein production and analysis	10,00	4	19.11.2018	Ruddock
744628S	Orientation to research work	15,00	pass	02.08.2019	Kastaniotis
744692S	MSc thesis, additional experimental work	20,00	pass	13.03.2020	Kastaniotis

Total number of credits 115,00

Language and Communication Studies

A300091	Language and Communication Studies	5,00	pass	30.07.2020	Kastaniotis
902154Y	Scientific Communication for Biochemists	5,00	pass	02.05.2019	McAnsh

Total number of credits 5,00



24.08.2020

Ngo Quoc Bao


2595856

301096-303Y

COMPLETED COURSES

Total of study units 120,00

SIGNATURE


Eeva-Kaisa Tuominen
Secretary, Academic Affairs



The extent of degrees:

Bachelor's degree: 180 credits

Master's degree: 120 credits

Licentiate of Medicine: 360 credits

Licentiate of Dentistry: 300 credits (decree 794/2004) or 330 credits (decree 351/2011)

On average 1 600 hours of student work is required to achieve 60 credits annually. 1 Finnish credit equals 1 ECTS credit.

Grades used in assessment of studies are pass/failed or numeric values: 5 (excellent; ECTS A), 4 (very good; ECTS B), 3 (good; ECTS C), 2 (satisfactory; ECTS D), 1 (sufficient; ECTS E), 0 failed.

In addition to numeric values, grades used in assessment of the Master's Thesis can also be: L = laudatur (outstanding; ECTS A), E = eximia cum laude approbatur (excellent; ECTS B), M = magna cum laude approbatur (very good; ECTS B), C = cum laude approbatur (good; ECTS C), N = non sine laude approbatur (fairly good; ECTS C), B = lubenter approbatur (satisfactory; ECTS D), A = approbatur (pass; ECTS E). Grades used in assessment of the Doctoral Thesis and Licentiate Thesis can also be excellent/pass/failed.