

Khue Hua Tran-Minh

Nationality: Vietnamese **Date of birth:** 17/11/1993  **Phone number:** (+46) 0739051659

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 **Home:** Artillerigatan 72A, LGH 1302, 11530 Stockholm (Sweden)

BIOTECHNICAL COMPETENCES

Mass Spectrometry

Targeted Proteomics, Affinity Proteomics, SRM, DIA, DESI

Next-Generation Sequencing

Molecular Biology Techniques

ELISA, PCR, Sanger Sequencing

Cell Culture

Human blood, amniotic fluid

Animal models

In-vitro fertilisation on mice

High-throughput robotics

Hamilton, MGI, Opentron

WORK EXPERIENCE

Research Assistant

Karolinska Institute [01/09/2022 – 31/08/2024]

City: Stockholm

Country: Sweden

Name of unit or department: National Pandemic Center, Centre for Translational Microbiome Research

- Develop product and assay in Mass-Spectrometry.
- Set up and optimise high-throughput Covid-19 diagnostic pipelines, including biobanking.
- Experience with various types of materials in BSL-2 Lab (saliva, feces, bacteria, tissues, etc).

Laboratory Assistant

KTH Royal Institute of Technology [06/2020 – 06/2022]

City: Stockholm

Country: Sweden

Name of unit or department: Proteomics group, Sci-Life Lab

- Develop new assay to precisely high-throughput diagnose Covid-19 using targeted affinity proteomics (see List of publications).
- Develop and optimise affinity proteomics assay to be translated into clinical context.

Biotechnical technician

Tu Du Hospital [11/2015 – 07/2018]

City: Hochiminh

Country: Vietnam

Name of unit or department: Department of Medical Genetics

- Diagnose genetics disorders at different levels using molecular biology techniques.
- Identify chromosomal disorders by karyotyping from amniotic fluid and blood cell culture.

- Give patients advice based on the results.
- Train new employees.
- Trained on Biological Safety in Medical Laboratory.

Research Intern

Dalhousie University [06/2014 – 09/2014]

City: Halifax, Nova Scotia

Country: Canada

Name of unit or department: Novel Tech Ethics

- 12-week summer internship.
- Project title: Bioethics – Research on the Use of Frozen Human Eggs and Embryos.

EDUCATION AND TRAINING

Master of Science in Medical Biotechnology

KTH Royal Institute of Technology [08/2018 – 06/2020]

City: Stockholm

Country: Sweden

Website: www.kth.se

Type of credits: ECTS – Number of credits: 120

Thesis: Development of a novel Immunocapture Mass Spectrometry assay for targeted proteomics

Bachelor of Science in Biotechnology

International University, Vietnam National University [09/2011 – 09/2015]

City: Hochiminh

Country: Vietnam

Final grade: 77

Thesis: Effect of different concentrations of bovine serum albumin in culture media on in vitro development of in vivo fertilized mouse embryos

PUBLICATIONS

Absolute Quantification of Pan-Cancer Plasma Proteomes Reveals Unique Signature in Multiple Myeloma

[2023]

Kotol, D.; Tran Minh, K.H.; et al. Cancers 2023, 15, 4764.

Rapid and sensitive detection of SARS-CoV-2 infection using quantitative peptide enrichment LC-MS analysis

[2021]

Andreas Hober, Khue Hua Tran-Minh, et al. (2021) eLife 10:e70843.

Development of a Novel Immunocapture Mass Spectrometry Assay for Targeted Proteomics

[2020]

Hua, T. M. K. (2020) (Dissertation).

Independent thesis Advanced level (degree of Master (Two Years)), 20 credits / 30 HE credits.

Effect of different concentrations of bovine serum albumin in culture media on in vitro development of in vivo fertilized mouse embryos

[2015]

Hua Tran Minh Khue (2015).

Bachelor's thesis.

International differences in gamete donor limits

[2015]

Khue Tran Minh Hua (2014) impact ethics in Assisted Reproduction, Law & Policy, Reproduction.

Research blog post from Research Internship Project "Bioethics – Research on the Use of Frozen Human Eggs and Embryos".

HONOURS AND AWARDS

Swedish Institute scholarship

Swedish Institute [2018]

Full scholarship for 2-year Master's programme, worth approximately 700.000 SEK.

2014 Globalink Research Intern

Mitacs Globalink [2014]

Summer research internship at Dalhousie University fully sponsored by Mitacs Globalink, worth approximately \$7500 CDN.

University scholarship

International University, Vietnam National University [2012]

Full scholarships for top 5 of the first and summer academic semesters, worth approximately \$1.000 USD.

Prize for Student of 5 merits

International University, Vietnam National University [2012]

Yearly award for students showing great performance at 5 aspects: ethics, academic accomplishment, physical fitness, skills, and integration.

REFERENCES

Fredrik Edfors, KTH Royal Institute of Technology

Email edfors@kth.se

Phone 0704733321

Ali Rihani, Karolinska Institute

Email Ali.Rihani@ki.se

Phone 0702301927

DIGITAL SKILLS

Analytical skills

R, R Studio, R Markdown / Gene sequencing by Sanger method (genetic analysis of SNPs) / Next Generation Sequencing library preparation and data analysis

Management skills

Laboratory Information Management System (LIMS) / KLARA inventory

Computer skills

Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access / Microsoft certified - AZ-900 / Google Suite (Doc, Slides, Form, Sheet, Drive)

LANGUAGE SKILLS

Mother tongue(s): **Vietnamese**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Swedish

LISTENING A2 READING C1 WRITING B2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION A2

French

LISTENING B1 READING B2 WRITING B2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

German

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

VOLUNTEERING

Mentor at KTH Alumni

[Stockholm, 09/2023 – 06/2024]

Orientate and give helpful advice related to studies and future career to 2-year Master's students at KTH Royal Institute of Technology.

Conference organiser

[Hochiminh City, 12/2017 – 12/2017]

Plan and organise logistics and reception for one-day conference "Prenatal and newborn screening and diagnostic tests".