

# CURRICULUM VITAE



## Contact information

Assoc. Prof. MD. PhD. Khac Cuong Bui  
Vice-Director, Principal researcher, Laboratory Animal Research Centre,  
Vietnam Military Medical University.  
Doctor, Lecturer at Department of Pathophysiology, Vietnam Military Medical  
University.  
Group leader, VG-CARE  
108 Institute of Clinical Medical and Pharmaceutical Science  
No. 1 Tran Hung Dao str., Hai Ba Trung, Hanoi, Vietnam

## Personal Details

Full name: Khac Cuong Bui  
Gender: Male  
Nationality: Vietnamese

## Educational Background

01/2019 University of Tübingen, Tübingen, Germany; PhD in experimental Medicine - Field of  
Study: Oncology, Medicine  
11/2013 Vietnam Military Medical University, Vietnam; Master of Science in Medicine – Field  
of Study Pathophysiology, Medicine  
08/2008 Vietnam Military Medical University, Doctor of Medicine

## Working Experience

2020 - to date Vice-Director, Principal researcher at Laboratory Animal Research Centre, Vietnam  
Military Medical University; Doctor, Lecturer at Department of Pathophysiology,  
Vietnam Military Medical University. No. 160 – Phung Hung, Phuc La, Ha Dong,  
Hanoi, Vietnam, Group leader, VG-CARE.  
2018 – 2020 Postdoc, The University of Tübingen, Geschwister-Scholl-Platz, 72074 Tübingen,  
Germany.  
2014 - 2018 PhD candidate, The University of Tübingen, Geschwister-Scholl-Platz, 72074  
Tübingen, Germany.  
2008 - 2014 Doctor, Lecturer, Researcher at the Department of Pathophysiology, Vietnam  
Military Medical University, No. 160 – Phung Hung, Phuc La, Ha Dong, Hanoi,  
Vietnam.

## Research Orientation

The research group aims to investigate the oncogenic mechanisms and develop targeting therapies in preclinical models forwarding to precision medicine in cancer treatment. We apply various methods, such as PCR, qRT-PCR, droplet digital PCR, ELISA, IF, IHC, FACS, Western blot, gene editing and manipulation (siRNA,

shRNA, CRISPR/Cas) for cancer research. Several cell-based experiments are routinely used to elucidate tumorigenesis and determine the anti-cancer effect of new potential therapeutics. In addition, we establish and apply animal models as the bridge from in vitro study to clinical investigation. Currently, we are focusing on the role of proteins involved in metabolic regulation and DNA damage repair for cancer therapy; synthesis of recombinant proteins and antibodies; development of CAR-T cells. We are in close collaboration with our international partners in Germany and US.

## Scholarships and Grants

### Project 1

**Title:** Evaluating the role of proteins involved in metabolic regulation and DNA damage repair for cancer therapy

**Role:** Principal Investigator

**Funder:** NAFOSTED (2020-2024)

### Project 2

**Title:** Study the association between the genetic polymorphism of biological markers and serum lipid index and insulin resistance status among type II diabetes at some hospitals in Hanoi

**Role:** Principal Investigator

**Funder:** Department of Science and Technology, Hanoi, Vietnam (2020 – 2024)

### Project 3

**Title:** Synthesis of recombinant sgp130 to target IL-6 trans-signaling and application for treatment of some human cancer types in intro and in vivo

**Role:** Member

**Funder:** Vingroup Innovative Foundation, Vietnam (2021-2025)

### Project 4

**Title:** Exploiting MUSE stem cells in production of artificial vessels using 3D-printing technique without printing form

**Role:** Member

**Funder:** Vingroup Innovative Foundation, Vietnam (2020 – 2024)

### Project 5

**Title:** Production of single-chain gonadotropins for fertility treatments

**Role:** Member

**Funder:** Vingroup Innovative Foundation, Vietnam (2020-2024)

## International Publications

PubMed: <https://pubmed.ncbi.nlm.nih.gov/?term=khac+cuong+bui+or+cuong+khac+bui+or+bui+khac+cuong&sort=date&size=100>