

# Viet Hang Le

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## SUMMARY

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A neuroscientist focusing on networks amongst neurons and between neurons and cancer cells. My work aims to unravel the mechanism underlying brain diseases and cancers.

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## EXPERIENCE

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### Postdoctoral Research Fellow

Cold Spring Harbor Laboratory

March 2022 - Present, Cold Spring Harbor, NY

Project 1: Investigate the underlying role of Oligophrenin-1 in epilepsy and sleep disruption

- Use viral technology to modify genes to identify potential therapeutic strategies.
- Investigate the mechanism of epilepsy in different brain regions and identify specific cell types affected in brain disorders caused by Oligophrenin-1 mutation in humans.

Project 2: investigate the reciprocal effects between the brain and tumors

- Dissect the interacting network between neurons and cancer cells using models of brain and pancreatic cancer.
- examine the promoting effect of nerve networks on tumor growth and develop gene therapy to slow down tumor growth.

### PhD Researcher

University of Aberdeen

January 2017 - February 2018, Aberdeen, United Kingdom

Research title: Effect of exposure to different diets on the hippocampus that leads to cognitive impairments via Brain-derived neurotrophic factor (BDNF) signalling.

- Using whole-cell patch clamp to measure the change in hippocampal neurons' activities
- Using qRT-PCR to profile the mRNA expression of BDNF and TrkB in different brain regions and identify changes following different nutritional manipulations
- Performing memory tests and using metabolic chamber to monitor mice's activities following different nutritional manipulations

### Undergraduate researcher

University of Nottingham

September 2015 - April 2016, Nottingham, United Kingdom

- Research title: Broncho-activity of Tiger Milk Mushroom extract on isolated smooth muscles.
  - Extract active compound in Tiger Milk Mushroom extract.
  - Examine the pharmacological mechanism of action in treating asthma.
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## EDUCATION

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### PhD in Medical Sciences

University of Aberdeen • Aberdeen, United Kingdom • 2022

### Bachelor in Biomedical Sciences with Honours

University of Nottingham • Nottingham, United Kingdom • 2016 • First Class

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## INVOLVEMENT

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### Co-Chair of In-House Education

Cold Spring Harbor Laboratory • Women in Science and Engineering • January 2013 - Present

- Organizing film screenings, and journal clubs to raise awareness about equality and inclusivity within the Lab.
- Leading scientific - lab etiquette orientation for young trainees attending short-term projects in the lab.

### Chair of External Affairs

Cold Spring Harbor Laboratory • Postdoctoral Liaison Committee • January 2023 - Present

- Organizing career panels, and socializing events to expand the network of postdocs in the lab and support their exploration of various career options, both within academia and beyond.
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## SKILLS

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Neuroscience research, cancer research

Technical Skills: Gene cloning, viral technology, stereotaxic surgery, Gene Therapy