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Education

PH.D. **Doctor of Philosophy in Human Biology (Immunology)**

University of Tsukuba, Japan (2014.09 - 2019.08)

- Research the unknown complex mechanism of the pathogenic immune responses in Hepatitis C viral infection, liver fibrosis, liver cancer, acute kidney injury, inflammatory bowel disease.
- Study the unidentified functions of immuno-activating molecules which are potentially important for immune cells in fighting against virus infection and sterile inflammation, including monocytes, macrophages, T cells.
- Perform sophisticated operations on research animals such as models of liver regeneration, ischemic acute kidney injury, hapten-induced colitis.
- Strong experiences in using multi-dimensional flow cytometry analysis and cell sorter from various mouse organs.
- Vast experiences in *in vivo* cell transfer, *in vivo* immunization and detection of activated T and B cells, *in vitro* culture of cell lines, *in vitro* stimulation of primary cells, and *ex vivo* study of T cells functions.
- Experience in generating antibodies for research, histological evaluation, quantitative-PCR, immunofluorescence staining and analyzing by Keyence microscopy and Mantra workstation.

MS **Master of Science in Medicine (Pharmacology)**

Kangwon National University, South Korea (2011.08 - 2014.02)

- Elucidate the mode of action of anti-inflammatory effects of plant derivatives on macrophage RAW264.7 cell line *in vitro*.
- Study the anti-tumor drug resistance in glioblastoma cell line, regarding Akt and MAPK pathways.
- Elucidate the anti-tumor effect of usnic acid derivatives on glioblastoma cell.
- Perform Western Blotting, ELISA, NO assay (detecting production of Nitric Oxide), MTT assay (cell cytotoxicity).

UNDERGRADUATE **Doctor of Pharmacy (Pharm.D.)**

University of Medicine and Pharmacy at Ho Chi Minh City, Vietnam (2005.09 - 2010.09)

- Being trained to practice as a pharmacist in hospitals, drug stores, pharmaceutical companies, regulatory managerial officers in public sector.
- Study the Quantitative Structure Activity Relationship (QSAR) of anti-malarial compounds using an *in silico* approach for the dissertation.

- INTERNSHIPS AND COURSES
- System Biology Course, UC Irvine, USA (2015.01 - 2015.02)
 - Summer School, Edinburgh, UK (2015.09 - 2015.10)
 - Institute of Pasteur Korea, South Korea (Applied Molecular Virology lab) (2017.12 - 2018.03)
 - Optimize cell based massive screening system for HEV inhibitors
 - Study Mode of Action of HBV lead compounds

Work Experience

PUBLIC SECTOR **Clinical Trial Researcher**

Institute Pasteur in Ho Chi Minh City, Clinical Research Unit, Vietnam (2010.10.01 - 2011.07.31)

- Monitor and report adverse effects of participants receiving trial vaccines.
- Manage participants' medical records.
- Establish protocols for monitoring vaccine storage in clinical trials.

ACADEMIA **Postdoctoral Researcher**

Immunology Lab, University of Tsukuba, Japan (2019.09.01 - 2021.04.15)



Curriculum vitae

- Research the immunological mechanism of lung injury and fibrosis, acute kidney injury.
- Examine therapeutic effect of antibodies in inflammatory diseases.
- Teach and train undergraduate students to do research in immunology.

Postdoctoral Researcher

Biology of Reprogramming Lab, University of Edinburgh, UK (2021.04.19 - Present)

Awards/ Achievements

- 2020 Postdoctoral Fellowship Recipient, University of Central Florida, USA (suspended due to COVID-19)
- 2019 NIAID Scholarship Recipient, Myeloid cells (B7), Keystone Symposia, USA
<https://tks.kestonesymposia.org/index.cfm?e=Web.Meeting.PastScholarships&Meetingid=1553>
- 2016 Best Student of The Year, Ph.D. Human Biology Program, University of Tsukuba, Japan
- 2015 Best Presentation Award, Summer School, University of Edinburgh, UK
- 2014-2019 Fellowship Recipient, Ph.D Program in Human Biology, University of Tsukuba, Japan
- 2005-2010 Outstanding Student Scholarship Recipient, University of Medicine and Pharmacy at Ho Chi Minh City, Vietnam (Top 10 over around 300 graduates in 2010)
- 2016 Selected Finalist for Oral Presentation in the First Business Plan Competition, MEXT (Ministry of Education, Culture, Sports, Science and Technology), Japan
- 2016 Selected Participant in BioCamp 2016, Novartis, Japan

Presentations

- 2019 17th International Congress of Immunology, Beijing, China [Poster]
- 2019 Keystone Symposia: Myeloid Cells, USA [Selected Short Talk]
- 2018 The 47th Annual Meeting of the Japanese Society for Immunology, Japan [Oral]
- 2016 The 45th Annual Meeting of the Japanese Society for Immunology, Japan [Oral]
- 2016 The 14th Int'l Joint Mini-Symposium on Molecular and Cell Biology between Kyoto University - National Taiwan University - University of Tsukuba, Japan [Oral]
- 2016 The 4th Joint Retreat between University of Tsukuba and Tokyo University of Science, Japan [Poster]
- 2015 First Symposium of The Vietnamese Medical-Biology Group, Japan [Oral]

Publications

- 10 Eri Takenaka*, **Anh Van Vo***, Yumi Yamashita-Kanemaru, Akira Shibuya & Kazuko Shibuya. Selective DNAM-1 expression on small peritoneal macrophages contributes to CD4+ T cell costimulation., *Scientific Reports* (2018) 8:15180 | DOI:10.1038/s41598-018-33437-4 1. *Co-first author.
- 9 Lu TN, Ganganna B, Pham TT, **Vo AV**, Lu TP, Nguyen HT, Nguyen MT, Huynh PN, Truong NT, Lee J. Antitumor effect of the integrin $\alpha 4$ signaling inhibitor JK273 in non-small cell lung cancer NCI-H460 cells., *Biochem Biophys Res Commun*. 2017 Sep 16;491(2):355-360.
- 8 **A. Van Vo***, E. Takenaka*, A. Shibuya, K. Shibuya. Expression of DNAM-1 (CD226) on inflammatory monocytes., *Mol. Immunol*. 69 (2016) 70-6. *Co-first author.
- 7 Huong Giang Thi Nguyen, Ngoc Vinh Nguyen, **Van Anh Vo**, Wanjoo Chun, Fadhil S Kamounah, Ole Vang and Poul Erik Hansen. Synthesis, Structure Elucidation and Cytotoxicity of (+)-Usnic Acid Derivatives on U87MG Glioblastoma Cells., *Nat Prod Chem Res* 2016, 4:3. DOI: 10.4172/2329-6836.1000216.
- 6 S.S. Kim, **V.A. Vo**, H. Park. Synthesis of Ochnaflavone and Its Inhibitory Activity on PGE 2 Production., *Bull. Korean Chem. Soc*. 35 (2014) 3219-3223. doi:10.5012/bkcs.2014.35.11.3219.
- 5 **V.A. Vo***, J.-W. Lee*, H.J. Lee, W. Chun, S.Y. Lim, S.-S. Kim. Inhibition of JNK potentiates temozolomide-induced cytotoxicity in U87MG glioblastoma cells via suppression of Akt phosphorylation., *Anticancer Res*. 34 (2014) 5509-15. *Co-first author.
- 4 **V.A. Vo**, J.-W. Lee, J.-Y. Kim, J.-H. Park, H.J. Lee, S.-S. Kim, Y.-S. Kwon, W. Chun. Phosphorylation of Akt Mediates Anti-Inflammatory Activity of 1-p-Coumaroyl β -D-Glucoside Against Lipopolysaccharide-Induced Inflammation in RAW264.7 Cells., *Korean J. Physiol. Pharmacol*. 18 (2014) 79-86.
- 3 **V.A. Vo**, J.-W. Lee, J.-H. Park, J.-H. Kwon, H.J. Lee, S.-S. Kim, Y.-S. Kwon, W. Chun. N-(p-Coumaroyl)-Tryptamine Suppresses the Activation of JNK/c-Jun Signaling Pathway in LPS-Challenged RAW264.7 Cells., *Biomol. Ther.* (Seoul). 22 (2014) 200-6.
- 2 **V.A. Vo**, J.-W. Lee, S.-Y. Shin, J.-H. Kwon, H.J. Lee, S.-S. Kim, Y.-S. Kwon, W. Chun. Methyl p-Hydroxycinnamate Suppresses Lipopolysaccharide-Induced Inflammatory Responses through Akt Phosphorylation in RAW264.7 Cells., *Biomol. Ther.* (Seoul). 22 (2014) 10-6.

- 1 **V.A. Vo**, J.-W. Lee, J.-E. Chang, J.-Y. Kim, N.-H. Kim, H.J. Lee, S.-S. Kim, W. Chun, Y.-S. Kwon. Avicularin Inhibits Lipopolysaccharide-Induced Inflammatory Response by Suppressing ERK Phosphorylation in RAW 264.7 Macrophages., *Biomol. Ther. (Seoul)*. 20 (2012) 532-7.