

LÝ LỊCH KHOA HỌC

1. Thông tin cá nhân

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2. Quá trình đào tạo

Thời gian	Tên cơ sở đào tạo	Chuyên ngành	Học vị
9/2007 - 6/2011	Trường Đại học Khoa học Tự nhiên - Đại học Quốc gia Hà Nội	Vi sinh vật học	Cử nhân
9/2012 - 12/2014	Trường Đại học Khoa học Tự nhiên - Đại học Quốc gia Hà Nội	Động vật học	Thạc sĩ
3/2017 - 2/2020	Đại học Kyonggi, Hàn Quốc	Sinh học phân tử, tế bào	Tiến sĩ

3. Quá trình công tác

Thời gian	Cơ quan công tác	Địa chỉ	Chức vụ
2012 - Nay	Trường Đại học Khoa học - Đại học Thái Nguyên	Phường Tân Thịnh, Thành phố Thái Nguyên, Tỉnh Thái Nguyên	Giảng viên
3/2020 - 12/2023	Trung tâm kiểm dịch Động vật và Thực vật, Bộ Nông - Lâm - Ngư nghiệp, Hàn Quốc	177, Hyeoksin 8-ro, Gimcheon-si, Gyeongsangnam-do, Hàn Quốc	Nghiên cứu sau tiến sĩ

4. Các hướng nghiên cứu

- Protein tái tổ hợp, kháng thể đơn dòng ứng dụng trong phát triển vaccine và kit chẩn đoán bệnh ELISA.

- Sinh học phân tử, di truyền ứng dụng trong phát triển kit chẩn đoán bệnh sử dụng PCR, xây dựng cơ sở dữ liệu di truyền và xác định mối quan hệ di truyền ứng dụng trong việc xác định nguồn gốc và truy vết các tác nhân gây bệnh trên động vật và người.
- Xác định mức độ kháng thuốc của các tác nhân gây bệnh trên vật nuôi và phát triển phương pháp điều trị an toàn, thân thiện với môi trường như sử dụng thảo dược, probiotic, liệu pháp gen (RNA interference) và đấu tranh sinh học.

5. Kết quả nghiên cứu đã công bố

5.1. Tập chí thuộc danh mục WoS (ISI)

- 1) **Truong AT**, Yoo MS, Woo SD, Lee H, Park Y, Nguyen TT, Youn SY, Min S, Lim J, Yoon SS, Cho YS. 2024. Evaluation of acaricidal activity in entomopathogenic fungi for poultry red mite (*Dermanyssus gallinae*) control. *Veterinary Parasitology* 331:110292
- 2) Nguyen TT, Yoo MS, Lee JH, **Truong AT**, Youn SY, Lee SJ, Yoon SS, Cho YS. 2024. Identification and pathogen detection of a *Neocyphophylax* species (Acari: Mesostigmata: Ameroseiidae) from beehives in the Republic of Korea. *PlosOne*.
- 3) Nguyen TT*, Yoo MS*, **Truong AT***, Youn SY, Kim DH, Lee SJ, Yoon SS, Cho YS. 2024. Prevalence and Genome Features of Lake Sinai Virus Isolated from *Apis mellifera* in the Republic of Korea. *PlosOne*. *the authors equally contribute to the word
- 4) Nguyen TT*, Yoo MS*, **Truong AT***, Lee JH, Youn SY, Lee SJ, Kim DH, Yoon SS, Cho YS. 2023. First identification of *Tyrophagus curvipenis* (Acari: Acaridae) and pathogen detection in *Apis mellifera* colonies in the Republic of Korea. *Scientific Report* 13(1), 9469 *authors have equal contribution
- 5) **Truong AT**, Kang JE, Yoo MS, Nguyen TT, Youn SY, Kim DH, Hwang TJ, Yoon SS, Cho YS. 2023. Probiotic candidates for controlling *Paenibacillus* larvae, a causative agent of American foulbrood disease in honey bee. *BMC Microbiology* 23, 150.
- 6) Yoo MS*, **Truong AT***, Jeong H, Hahn DH, Lee JS, Yoon SS, Cho YS. 2023. Large-scale application of double-stranded RNA shows potential for reduction of sacbrood virus disease in *Apis cerana* apiaries. *Viruses* 15, 897. *both authors have equal contribution
- 7) **Truong AT**, Yoo MS, Seo SK, Hwang TJ, Yoon SS, Cho YS. 2023. Prevalence of honey bee pathogens and parasites in South Korea: A five-year surveillance study from 2017 to 2021. *Heliyon*; e13494
- 8) **Truong AT**, Youn SY, Yoo MS, Lim J, Yoon SS, Cho YS. 2022. Genotyping of *Coxiella burnetii* from cattle by multispacer sequence typing and multiple locus variable number of tandem repeat

analysis in the Republic of Korea. *Genes* 13, 1927.

- 9) **Truong AT**, Yoo MS, Min S, Lim JY, Seo HJ, Kim HC, Chong ST, Klein TA, Park CU, Cho SY, Choi CY, Kwon YS, Kim M, Yoon SS, Cho YS. 2022. *Toxoplasma gondii* and *Rickettsia* spp. in ticks collected from migratory birds in the Republic of Korea. *Scientific Report*; 12:12672
- 10) **Truong AT**, Kim S, Yoon B. 2022. Determination of honey adulterated with corn syrup by quantitative amplification of maize residual DNA using ultra-rapid real-time PCR. *Journal of the Science of Food and Agriculture*; 102(2):774-781.
- 11) **Truong AT**, Yun BR, Yoo MS, Lim J, Min S, Yoon SS, Yun YM, Kim JT, Cho YS. 2022. Utility of ultra-rapid real-time PCR for detection and prevalence of *Rickettsia* spp. in ticks. *BMC Veterinary Research*; 18(1):199.
- 12) **Truong AT**, Yoo MS, Cho YS, Yoon B. 2022. Identification of Seasonal Honey Based on Quantitative Detection of Typical Pollen DNA. *Applied Sciences*; 12:4846
- 13) **Truong AT**, Yoo MS, Yun BR, Kang JE, Noh J, Hwang TJ, Seo SK, Yoon SS, Cho YS. 2022. Prevalence and pathogen detection of *Varroa* and *Tropilaelaps* mites in *Apis mellifera* (Hymenoptera, Apidae) apiaries in South Korea. *Journal of Apicultural Research* (Ahead-of-print); 1-9. DOI: 10.1080/00218839.2021.2013425
- 14) Yun BR*, **Truong AT***, Choi YS, Lee MY, Kim BY, Seo M, Yoon SS, Yoo MS, Quyen DV, Cho YS. 2022. Comparison of the gut microbiome of sacbrood virus-resistant and -susceptible *Apis cerana* from South Korea. *Scientific Report*; 12:10010; *both authors have equal contribution
- 15) Yoo MS, **Truong AT**, Choi YS, Hong KJ, Hwang TJ, Seo SK, Seo HJ, Jung S, Yoon SS, Cho YS. 2022. Pathogen detection and phylogenetic analysis of *Aethina tumida* Murray in South Korea. *Journal of Apicultural Science*; 66(1):45-55.
- 16) Seo HJ, **Truong AT**, Kim KH, Lim JY, Min S, Kim HC, Yoo MS, Yoon SS, Klein TA, Cho YS. 2021. Molecular Detection and Phylogenetic Analysis of Tick-Borne Pathogens in Ticks Collected from Horses in the Republic of Korea. *Pathogens*; 10:1069.
- 17) **Truong AT**, Yun BR, Lim J, Min S, Yoo MS, Yoon SS, Yun YM, Kim JT, Cho YS. 2021. Real-time PCR biochip for on-site detection of *Coxiella burnetii* in ticks. *Parasites & Vectors*; 14(1):239.
- 18) **Truong AT**, Sevin S, Kim S, Yoo MS, Cho YS, Yoon B. 2021. Rapidly quantitative detection of *Nosema ceranae* in honeybees using ultra-rapid real-time quantitative PCR. *Journal of Veterinary Science*; 22(3): e40.
- 19) **Truong AT**, Noh J, Park Y, Seo HJ, Kim KH, Min S, Lim J, Yoo MS, Kim HC, Klein TA, Lee H, Yoon SS, Cho YS. 2021. Molecular Detection and Phylogeny of Tick-Borne Pathogens in Ticks Collected from Dogs in the Republic of Korea. *Pathogens*; 10(5):613.
- 20) **Truong AT**, Kim B, Kim S, Kim M, Kim J, Kim S, Yoon B. 2019. Rapid detection of Israeli acute

paralysis virus using multi-point ultra-rapid real-time PCR (UR-qPCR). *Journal of Apicultural Research*; 58(5):746-753.

- 21) Kim JM, Lim SJ, Kim SM, Kim MJ, Kim BH, **Truong AT**, Kim SM, Yoon BS. 2019. Rapid detection of deformed wing virus in honeybee using ultra-rapid qPCR and a DNA-chip. *Journal of Veterinary Science*; 20(6): e72
- 22) Kim B, Kim J, Kim S, Kim M, **Truong AT**, Cho K, Yoon B. 2018. Detection of chronic bee paralysis virus using ultra-rapid PCR and nested ultra-rapid PCR. *Journal of Apicultural Research*; 58(1):133-140.

5.2. Tạp chí quốc tế khác

- 23) **Truong AT**, Kim S, Yoo MS, Cho YS, Yoon BS. 2021. Susceptibility of *Apis mellifera* Larvae of Different Ages to Infection from *Melissococcus plutonius*, an European Foulbrood Disease-causing Pathogen. *Journal of Apiculture*; 36(2): 47-54.
- 24) Kim MJ, Kim BH, Kim SM, **Truong AT**, Kim JM, Kim SM, Yoon BS. 2019. Development of Ultra-rapid nested PCR method for detection of specific gene of Tracheal mite (*Acarapis woodi*). *Journal of Apiculture*; 34(1):15-26.
- 25) Kim B, Kim S, Kim M, Kim J, **Truong AT**, Kim S, Yoon B. 2019. Quantitative Detection of Tropilaelaps in Hive by Specific Gene Detection from Hive Debris. *Journal of Apiculture*; 34(1):27-37.
- 26) Kim S, Kim B, Kim M, Kim J, **Truong AT**, Kim S, Yoon B. 2019. Development of Diagnostic System to Black Queen Cell Virus (BQCV) Using Multi-point Detection. *Journal of Apiculture*; 34(1):39-46.
- 27) **Truong AT**, Kim JM, Lim SJ, Yoo MS, Cho YS, Yoon BS. 2018. Development of Ultra-rapid PCR System for Genotyping of Sacbrood Virus. *Journal of Apiculture*; 33(2):83-98.
- 28) Kim S, Kim B, Kim M, Kim J, **Truong AT**, Yoon B. 2018. Detection of sugar beet (*Beta vulgaris*) - specific gene from honey made by sugar of sugar beet. *Journal of Apiculture*; 33(3): 213-219.
- 29) Kim B, Kim S, Kim M, Kim J, **Truong AT**, Yoon B. 2018. Detection of sugar cane (*Saccharum officinarum*)-specific gene from sugar and sugar-honey. *Journal of Apiculture*; 33(3): 221-226.
- 30) Kim MJ, Kim JM, Kim BH, Kim SM, **Truong AT**, Yoon BS. 2018. Development of nested Ultra-rapid PCR method for the accurate detection of Acute bee paralysis virus (ABPV). *Journal of Apiculture*; 33(3):165-180.
- 31) Kim JM, **Truong AT**, Kim SM, Kim BH, Kim MJ, Yoon BS. 2018. Multi-Ultra-rapid PCR against viral pathogens of honey bee using hive debris. *Journal of Apiculture*; 33(3):135-147.
- 32) Kim JM, Lim SJ, **Truong AT**, Wang JH, Lee CW, Yoon BS. 2017. Comparison between specific DNA-amplifications using recombinase polymerase amplification (RPA) and using polymerase chain

reaction (PCR). *Journal of Apiculture*; 32(1):41-50.

- 33) Kim JM, Lim SJ, **Truong AT**, Hong KJ, Yoon BS. 2017. Development of rapid detection system for small hive beetle (*Aethina tumida*) by using Ultra-rapid PCR. *Journal of Apiculture*; 32(2):119-131.
- 34) Kim S, Lim S, Kim J, Kim B, **Truong AT**, Yoon B. 2017. Rapid detection of *Lysinibacillus fusiformis*, a suspicious pathogen of *Bombus terrestris*, using Ultra-rapid PCR. *Journal of Apiculture*; 32(3):181-189.
- 35) **Truong AT**, Kim JM, Lim SJ, Yoo MS, Cho YS, Yoon BS. 2017. High Level of Sequence-Variation in Sacbrood Virus (SBV) from *Apis mellifera*. *Journal of Apiculture*; 32(4):281-293.

5.3. Tạp chí trong nước

- 36) **Truong AT**, Nam NX, Vinh NV. 2014. Species composition of mayfly (Ephemeroptera) in several streams in Ma river basin, Thanh Hoa province, Vietnam. *VNU Journal of Science: Natural Science and Technology*; 30(6S-B):360-367
- 37) Thi Phuong Tang, Anh Tuan Truong, Manh Toan Lai, Thu Ha Nguyen Thi, Thi Thin nguyen, Khanh Linh Ha Tran, Thu Huyen Nguyen Thi, **A-Tai Truong**. 2025. Isolation and characterization of ascospaera apis, the causative agent of chalkbrood disease, in *Apis mellifera* apiaries in Vietnam. *TNU Journal of Science and Technology*, 230

5.4. Hội thảo

- 38) Aquatic insects of the Ma river in Thanh Hoa province, northern Vietnam. The 3rd international symposium of benthological society of Asia. Vladivostok, Russia, 2016.
- 39) Sacbrood virus (SBV) genotypes detection by Ultra-Rapid Real-time PCR. The 32th Conference of the Apicultural Society of Korea, 2017
- 40) Accurate identification of Israeli acute paralysis virus by multi detection points using ultra-rapid real-time PCR. The 33th Conference of the Apicultural Society of Korea, 2018
- 41) Quantitative detection of *Nosema ceranae* using ultra-rapid real-time PCR and microscopic method. The 34th Conference of the Apicultural Society of Korea, 2018
- 42) Amplification of Maize residual DNA in honey using ultra-rapid real-time PCR allows the detection of honey sample adulterated with various ratios of corn syrup sugar. The 35th Conference of the Apicultural Society of Korea, 2019
- 43) Identification of seasonal honey by specific detection of typical plant compositions. The 36th Conference of the Apicultural Society of Korea, 2019
- 44) Development of detection method as point-of-care using Ultra-rapid PCR and immunochromatography against 11 major pathogens in honeybee. 46th Apimondia, international

Apicultural congress, Quebec, Canada, 2019

- 45) High level of sequence-variation in Sacbrood virus (SBV) from *Apis mellifera*. The 32th Conference of the Apicultural Society of Korea, 2017
- 46) Degenerated PCR under short time of each step using ultra-rapid real-time PCR. The 33th Conference of the Apicultural Society of Korea, 2018
- 47) Development of quantitative nested Ultra rapid real time PCR assay for genotyping Sacbrood virus from honeybee in Korea. The 34th Conference of the Apicultural Society of Korea, 2018
- 48) Generation of monoclonal antibody for *Nosema ceranae* detection. The 35th Conference of the Apicultural Society of Korea, 2019
- 49) Direct amplification of residual DNA in honey for nectar source identification. The 36th Conference of the Apicultural Society of Korea, 2019
- 50) On-site detection and infection rate of *Coxiella burnetii* in livestock ticks by Ultra-rapid Chip-based PCR, the 62th annual meeting of The Korean Society for Parasitology and Tropical medicine, 2020.
- 51) Infection rate of *Rickettsia* spp. in ticks detected by Ultra-rapid chip-based PCR. Conference of the Korean Society of Veterinary Science KSVS, 2020
- 52) Selection of prospective recombinant antigens for indirect ELISA detection of anti-*Coxiella burnetii* antibody in multi-species. Symposium of The Korean Society of Veterinary Science, 2021
- 53) Development of indirect ELISA for detection of anti-*Coxiella burnetii* antibody in multi-host species using recombinant Com1 Protein. Symposium of The Korean Society of Veterinary Science, 2021
- 54) Genotyping of Sacbrood virus in *Apis cerana* and *Apis mellifera* in the Republic of Korea. The 38th Conference of the Apicultural Society of Korea, 2021
- 55) Prevalence of *Coxiella burnetii*, African swine fever virus, *Francisella tularensis*, *Rickettsia* spp., and Powassan virus in ticks collected from animals in Korea. Symposium of The Korean Society of Veterinary Science, 2021
- 56) Enzyme-linked immunosorbent assay for antibody detection of *Toxoplasma gondii* using SAG1, GRA1, BAG1, and GRA7. Symposium of The Korean Society of Veterinary Science, 2021
- 57) Putative genotypes of Sacbrood virus in *Apis cerana* and *Apis mellifera* in Korea. Symposium of The Korean Society of Veterinary Science, 2021
- 58) Mutation rate and phylogeny of Sacbrood virus in *Apis cerana* and *Apis mellifera* in Korea. The Korean Society of Veterinary Science, 2021
- 59) Prevalence of *Coxiella burnetii*, African swine fever virus, *Francisella tularensis*, *Rickettsia* spp., and Powassan virus in ticks collected from animals in Korea. The Korean Society of Veterinary Science, 2021

- 60) Prevalence of honey bee pathogens and parasites in South Korea: A five-year surveillance study from 2017 to 2021. The 38th Korean Apiculture Society Summer Conference, 2022
- 61) Updating genomic database of Sacbrood virus in South Korea. The 38th Korean Apiculture Society Summer Conference, 2022
- 62) Genotyping of Sacbrood virus in *Apis cerana* and *Apis mellifera* in the Republic of Korea. The 38th Korean Apiculture Society Winter Conference, 2022
- 63) *Toxoplasma gondii* and *Rickettsia* spp. in ticks collected from migratory birds in South Korea. The 29th conference of the Korean Association of Basic Medical Scientist, 2022.
- 64) Genotyping of *Coxiella burnetii* from cattle by multispacer sequence typing and multiple locus variable number of tandem repeat analysis in the Republic of Korea. Application of Big-data and AI in veterinary medicine, The Korean Society of Veterinary Science, spring conference 2022
- 65) Prevalence of honey bee pathogens and parasites in South Korea: A five-year surveillance study from 2017 to 2021. Core strategy of veterinary medicine for the development of prescriptions and vaccines in post-corona era, The Korean Society of Veterinary Science, Autumn conference 2022
- 66) Detection of anti-*Coxiella burnetii* antibody in multi-species using recombinant antigens. Core strategy of veterinary medicine for the development of prescriptions and vaccines in post-corona era, The Korean Society of Veterinary Science, Autumn conference 2022
- 67) Prevalence of honey bee pathogens and parasites in South Korea: A five-year surveillance study from 2017 to 2021. The 47th Apimondia Congress, Istanbul, Turkey, 2022.
- 68) Genome analysis of virulent and non-virulent strains of Sacbrood virus from honey bee in South Korea. The 39th Korean Apiculture Society Winter Conference, 2023
- 69) Prevalence and molecular characterization of tick-borne *Rickettsia* species in South Korea. FEMS2023, Hamburg, Germany.
- 70) *Varroa destructor* resistance to tau-fluvalinate and amitraz miticides in South Korea. The 39th Korean Apiculture Society Summer Conference, 2023