

CURRICULUM VITAE



Contact information

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Personal details

Full name: Nghiem Xuan Hoan
Date of birth: May 19th, 1983
Place of birth: Hanoi, Vietnam
Gender: Male
Nationality: Vietnamese
Marital status: Married (2008) and two children (born in 2009 and 2014)
Language: Vietnamese, English

Education background

2014-2017 University of Tuebingen, Tuebingen, Germany; PhD
2001-2007 Hanoi Medical University, Vietnam; Medical Doctor
1999-2001 Phuong Duc school, Hanoi, Vietnam General Certificate of Secondary Education

Working experience

Since 1/2019 Group leader, Vietnamese-German Center for Medical Research (VG-CARE) and Clinical physician, Department of Blood-Borne Infectious Diseases, 108 Institute of Clinical Medical and Pharmaceutical Science, Hanoi.
1/2018-12/2018 Postdoctoral fellow, Institute of Tropical Medicine, Faculty of Medicine Eberhard Karls Universität Tübingen (Germany).
4/2015-12/2017 PhD student, Institute of Tropical Medicine, Faculty of Medicine Eberhard Karls Universität Tübingen (Germany).
3/2014-03/2015 Molecular Biology trainee, Institute of Tropical Medicine, Faculty of Medicine Eberhard Karls Universität Tübingen (Germany).
1/2008-12/2013 Clinical physician, Institute of Clinical Infectious Diseases, 108 Institute of Clinical Medical and Pharmaceutical Science, Hanoi.

Research Orientation

My research interests are focusing on Tropical Medicine including liver diseases related to viral hepatitis caused by HBV, HCV, HDV, HEV and other infectious diseases such as HIV/AIDS; Sepsis; Malaria. Most published studies aimed to:

- Investigate the molecular epidemiology of hepatitis viruses, including HBV, HDV and HEV and their impact on the burden of community health.
- Investigate genetic association of human immunological genes with HBV-related liver diseases and pathogenesis and immune response in HBV infection.
- Investigate the role of epigenetics (DNA Methylation, miRNAs and Long noncoding RNAs) on clinical liver disease outcomes in HBV infected patients.
- Utilize the molecular approaches in the diagnosis, follow-up, and prognosis of liver diseases caused by hepatitis viruses including HBV, HDV and HEV.

Scholarships and Grants

Scholarship:	PhD Scholarship (2014 – 12/2017), Funder: Institute of Tropical Medicine, University of Tuebingen, Tuebingen, Germany (~ 60,000 €)
Project 1:	Investigating the role of immune inhibitory checkpoint pathways PD-1/PD-L1 and IDO/TDO-Kyn-AhR in the clinical outcomes of patients acquired chronic HBV infections. Role: Principal Investigator (PI). Funder: NAFOSTED (2019-2022) (~90,000 Euros).
Project 2:	Functional roles of JAK/STAT/SOCS signaling pathway and Interferon-stimulated gene 15 (ISG15) protein modification in hepatitis B virus -related liver diseases. Role: Co-Investigator (Co-I). Funder: NAFOSTED (2017-2020) (~110,000 Euros).
Project 3:	Application study of molecular biology in early diagnosis and prediction for hepatocellular carcinoma in patient infected with hepatitis B virus (HBV). Role: Co-I. Funder: Ministry of Science and Technology (2010-2012) (~200,000 Euros).
Project 4:	Investigating the role of molecular markers in the diagnosis of prostate cancer. Role: Co-I. Funder: Ministry of Science and Technology (2010-2012) (~20,000 Euros).

Honors and Fellowships

2016	Travel Grant, German Academic Exchange Service (DAAD): attending the 51 th International Congress of liver diseases, April 13-17 th , Barcelona, Spain
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Memberships

EASL	European Association for the Study of the Liver
AASLD	American Association for the Study of Liver Diseases
ESCMID	European Society of Clinical Microbiology and Infectious Diseases

Peer Review activities

BMC Medical genetics, Human Immunology, PlosOne, Viral Immunology

Presentations and Talks

1. **Nghiem Xuan Hoan**, Hoang Van Tong, Bui Tien Sy, Nguyen Linh Toan, Le Huu Song, C.- Thomas Bock, Thirumalaisamy P. Velavan. Interferon regulatory factor 5 gene polymorphisms are associated with HBV-related liver disease outcomes. The International Liver Congress. April 2019 in Vienna, Austria. (Peer-reviewed, poster presentation. Journal of Hepatology).
2. **Nghiem Xuan Hoan**, Pham Xuan Huy, Trinh Van Son, Dao Phuong Giang, Mai Thanh Binh, Dam Tu Anh, Le Huu Song, C-Thomas Bock, Hoang Van Tong, Nguyen Linh Toan, Thirumalaisamy P Velavan. HEV positivity in domesticated pigs and a relative risk of HEV zoonosis among occupationally exposed individuals in

Vietnam. The International Liver Congress. April 2018 in Paris, France. (Peer-reviewed, poster presentation. Journal of Hepatology).

3. **Nghiem Xuan Hoan**, Hoang Van Tong, Dao Phuong Giang, Nguyen Linh Toan, Le Huu Song, C.-Thomas Bock, Peter G Kremsner, Thirumalaisamy P Velavan. Functional variants and aberrant Methylation in the SOCS3 promoter region influence the progression of HBV-related liver diseases. The International Liver Congress. April 2016 in Barcelona, Spain. (Peer-reviewed, poster presentation. Journal of Hepatology).
4. Hoang Van Tong, **Nghiem Xuan Hoan**, Dao Phuong Giang, Nguyen Linh Toan, Le Huu Song, C.-Thomas Bock, Peter G Kremsner, Thirumalaisamy P Velavan. Interferon-stimulated gene 15 in HBV infection and progression of HBV-related liver diseases. The International Liver Congress. April 2016 in Barcelona, Spain. (Peer-reviewed, poster presentation. Journal of Hepatology).
5. **Nghiem X. Hoan**, Hoang Van Tong, Nicole Hecht, Bui Tien Sy, Patrick Marcinek, Christian G. Meyer, Le Huu Song, Nguyen Linh Toan, Jens Kurreck, Peter G. Kremsner, C-Thomas Bock, Thirumalaisamy P. Velavan. Hepatitis E Virus Superinfection and Clinical Progression in Hepatitis B Patients. Grad School Day at the Interfaculty Graduate School of Infection Biology and Microbiology (IGIM). 12th February 2016 in Tuebingen, Germany (Oral Presentation).
6. Hoang V. Tong, **Nghiem Xuan Hoan**, Adam Clark, Franziska Gerlach, Nguyen Linh Toan, Le Huu Song, C.-Thomas Bock, Peter G Kremsner, Thirumalaisamy P Velavan. JAK/STAT signaling pathway and susceptibility to hepatitis B virus infection and related liver diseases. The International Liver Congress. April 2016 in Vienna, Austria. (Peer-reviewed, poster presentation. Journal of Hepatology).
7. Hoang V. Tong, Le Huu Song, **Nghiem Xuan Hoan**, Bui Khac Cuong, Bui Tien Sy, Ho Anh Son, Do Quyet, Vu Quoc Binh, Peter G Kremsner, Claus Thomas Bock, Thirumalaisamy P Velavan and Nguyen Linh Toan. Soluble MICB protein levels and platelet counts during hepatitis B virus infection and response to hepatocellular carcinoma treatment. HCC Summit. 13-16th February 2014 in Geneva, Switzerland. (Poster Presentation).

Publications

PubMed: <http://www.ncbi.nlm.nih.gov/pubmed/?term=Nghiem+Xuan+Hoan+or+NX+Hoan>

1. **Nghiem Xuan Hoan**, Nguyen Khuyen, Dao Phuong Giang, Mai Thanh Binh, Nguyen Linh Toan, Do Tuan Anh, Ngo Tat Trung, Mai Hong Bang, Christian G. Meyer, Thirumalaisamy P Velavan, Le Huu Song. Vitamin D receptor Apal polymorphism associated with progression of liver disease in Vietnamese patients chronically infected with Hepatitis B virus. BMC Medical Genetics. 2019 (Revision).
2. **Nghiem Xuan Hoan**, Pham Xuan Huy, Bui Tien Sy, Christian G. Meyer, Trinh Van Son, Mai Thanh Binh, Dao Phuong Giang, Dam Tu Anh, C.-Thomas Bock, Bo Wang, Hoang Van Tong, Peter G. Kremsner, Le Huu Song, Nguyen Linh Toan, Thirumalaisamy P. Velavan. High HEV positivity among domestic pigs and risk of HEV infection of individuals occupationally exposed to pigs and pork meat in Hanoi, Vietnam. Open Forum of Infectious Diseases. 2019 (Accepted).
3. Ngo Tat Trung, Dao Thanh Quyen, **Nghiem Xuan Hoan**, Dao Phuong Giang, Tran Thi Huyen Trang, Thirumalaisamy P Velavan, Mai Hong Bang, Le Huu Song. Rapid, low cost and sensitive detection of Calreticulin mutations by a PCR based amplicon length differentiation assay for diagnosis of myeloproliferative neoplasms. BMC Medical Genetics. 2019 Mar.
4. Ngo Tat Trung, Le Trung Hai, Dao Phuong Giang, Phan Quoc Hoan, Mai Thanh Binh, **Nghiem Xuan Hoan**, Nguyen Linh Toan, Christian G. Meyer, Thirumalaisamy P. Velavan, Mai Hong Bang and Le Huu Song. No expression of HBV-human chimeric fusion transcript (HBx-LINE1) among Vietnamese patients with HBV-associated hepatocellular carcinoma. Annals of Hepatology. 2019

5. Binh MT, **Nghiêm Xuân Hoan**, Van Tong H, Sy BT, Trung NT, Bock CT, Toan NL, Song LH, Bang MH, Meyer CG, Kreamsner PG, Velavan TP. NTCP S267F variant associates with decreased susceptibility to HBV and HDV infection and decelerated progression of related liver diseases. *Int J Infect Dis*. 2019 Jan 24.
6. Van Tong H, Van Ba N, **Nghiêm Xuân Hoan**, Binh MT, Quyen DT, Son HA, Van Luong H, Quyet D, Meyer CG, Song LH, Toan NL, Velavan TP. Soluble fibrinogen-like protein 2 levels in patients with hepatitis B virus-related liver diseases. *BMC Infect Dis*. 2018 Nov 12.
7. Van Tong H, **Nghiêm Xuân Hoan**, Binh MT, Quyen DT, Meyer CG, Song LH, Toan NL, Velavan TP. Interferon-stimulated gene 20 kDa protein serum levels and clinical outcome of hepatitis B virus-related liver diseases. *Oncotarget*. 2018 Jun 12
8. Binh MT, **Nghiêm Xuân Hoan**, Van Tong H, Giang DP, Sy BT, Toan NL, Song LH, Bang MH, Wedemeyer H, Meyer CG, Kreamsner PG, Bock CT, Velavan TP. HDV infection rates in northern Vietnam. *Sci Rep*. 2018 May 23.
9. **Nghiêm Xuân Hoan**, Tong HV, Song LH, Meyer CG, Velavan TP. Vitamin D deficiency and hepatitis viruses-associated liver diseases: A literature review. *World J Gastroenterol*. 2018 Jan 28.
10. Sy BT, **Nghiêm Xuân Hoan**, Tong HV, Meyer CG, Toan NL, Song LH, Bock CT, Velavan TP. Genetic variants of interferon regulatory factor 5 associated with chronic hepatitis B infection. *World J Gastroenterol*. 2018 Jan 14.
11. Amorim LM, van Tong H, **Nghiêm Xuân Hoan**, Vargas LB, Ribeiro EMSF, Petzl-Erler ML, Boldt ABW, Toan NL, Song LH, Velavan TP, Augusto DG. KIR-HLA distribution in a Vietnamese population from Hanoi. *Hum Immunol*. 2018 Feb.
12. Adedaja A, **Nghiêm Xuân Hoan**, van Tong H, Adukpó S, Tijani DB, Akanbi AA 2nd, Meyer CG, Ojurongbe O, Velavan TP. Differential contribution of interleukin-10 promoter variants in malaria and schistosomiasis mono- and co-infections among Nigerian children. *Trop Med Int Health*. 2018 Jan.
13. Hung Minh Nguyen, Bui Tien Sy, Nguyen Thanh Trung, **Nghiêm Xuân Hoan**, Heiner Wedemeyer, Thirumalaisamy P. Velavan, C.- Thomas Bock. Clinical significance of hepatitis delta virus among chronic hepatitis B carriers in Central Vietnam. *Plosone* 4/2017.
14. **Nghiêm Xuân Hoan**, Hoang Van Tong, Dao Phuong Giang, Le Huu Song, Bui Khac Cuong, Nguyen Linh Toan, C-Thomas Bock, Peter G. Kreamsner and Thirumalaisamy P. Velavan. *SOCS3 promoter variants and hypermethylation influence the progression of HBV-related liver diseases*. *Oncotarget*. 2017 Feb 4. doi: 10.18632/oncotarget.15083
15. **Nghiêm Xuân Hoan**, Nguyen Khuyen, Mai Thanh Binh, Dao Phuong Giang, Hoang Van Tong, Phan Quoc Hoan, Ngo Tat Trung, Do Tuan Anh, Nguyen Linh Toan, Christian G. Meyer, Peter G. Kreamsner, Thirumalaisamy P Velavan, Le Huu Song. *Vitamin D deficiency influences the clinical course of Hepatitis B virus - related liver diseases*. *BMC Infect Dis*. 2016 Sep 23;16(1):507.
16. **Nghiêm Xuân Hoan**, Hoang Van Tong, Dao Phuong Giang, Le Huu Song, Nguyen Linh Toan, C-Thomas Bock, Peter G. Kreamsner and Thirumalaisamy P. Velavan. *Interferon-stimulated gene 15 in hepatitis B-related liver diseases*. *Oncotarget*. 2016 Sep 10. doi: 10.18632/oncotarget.11955.
17. Hoang Van Tong, **Nghiêm Xuân Hoan**, Wang B, Wedemeyer H, Bock CT, Velavan TP. *Hepatitis E Virus Mutations: Functional and Clinical Relevance*. *EBioMedicine*. 2016 Sep;11:31-42. doi: 10.1016/j.ebiom.2016.07.039.
18. **Nghiêm Xuân Hoan**, Hoang Van Tong, Nicole Hecht, Bui Tien Sy, Patrick Marcinek, Christian G. Meyer, Le Huu Song, Nguyen Linh Toan, Jens Kurreck, Peter G. Kreamsner, C-Thomas Bock, Thirumalaisamy P. Velavan. *Hepatitis E Virus Superinfection and Clinical Progression in Hepatitis B Patients*. *EBioMedicine*. 2015 Nov 11;2(12): 2080-6. doi: 10.1016/j.ebiom.2015.11.020.

19. **Nghiem Xuan Hoan**, Bui Khac Cuong, Ho Anh Son, Do Quyet, Vu Quoc Binh, Peter G. Kremsner, C.-Thomas Bock, Thirumalaisamy P. Velavan, Nguyen Linh Toan. *Soluble MICB protein levels and platelet counts during hepatitis B virus infection and response to hepatocellular carcinoma treatment*. BMC Infect Dis. 2015 Jan 23;15:25. doi: 10.1186/s12879-015-0754-x..
20. Adam Clark, Franziska Gerlacha, Hoang van Tong, **Nghiem Xuan Hoan**, Le H. Song, Nguyen L. Toan, C.-Thomas Bock, Peter G. Kremsner, Thirumalaisamy P. Velavan. *A trivial role of STAT4 variant in chronic hepatitis B induced hepatocellular carcinoma*. Infect Genet Evol. 2013 Aug;18:257-61. doi: 10.1016/j.meegid.2013.05.025.

References

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