**Curriculum Vitae**

# I. Personal details

Family name: **Ha** Middle name: **Viet** First name: **Cuong**

Day of birth: 1970

Title: Assoc Prof. Dr.

Job title: Plant Pathologist, Plant Virologist Current position:

* Director, Research Center for Tropical Plant Diseases, Vietnam National University of Agriculture (VNUA).
* Head, Department of Plant Pathology, Vietnam National University of Agriculture (VNUA).

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Email: hvcuongnh@vnua.edu.vn ; cuongvietha@gmail.com **II. Academic qualifications**

1. PhD. Plant Biotechnology (Plant virology), Queensland University of Technology, Australia, 2007.
2. MSc. Plant protection, Hanoi University of Agriculture, Vietnam, 1998.
3. BSc. Plant protection, Hanoi University of Agriculture, Vietnam, 1992.

**III. Credentials**

1. The International Postgraduate Research Scholarships (IPRS) funded by the Australian Government for the PhD study (2003-2007)
2. The Outstanding PhD Thesis Award of the Queensland University of Technology (2007)

# IV. Funded research

1. (2012-2015). BeatingBegomoviruses: Better livelihoods for farmers in tropical Asia with begomovirus-resistant tomato, hot pepper and mungbean and integrated disease management. Role: Principal investigator. This is an international collaboration program with the AVRDC. Funding agency: Federal Ministry for Economic Cooperation and Development (BMZ) via Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH.
2. (2013-2015): Molecular and Biological characterization of Kudzu mosaic virus (KuMV) infecting soybean in Northern Vietnam. Role: Project leader. Funding agency:

Ministry of Science and Technology of Vietnam (NAFOSTED)

1. (2013-2015): Production of antibodies specific to Rice yellow stunt virus (RYSV) for diagnosis. Role: Project leader. Funding agency. Ministry of Education and Training of Vietnam.
2. (2012-2015). Control of yellow leaf curl disease of tomato in Vietnam using RNAi technology. Role: Principal investigator. Funding agency: Ministry of Agriculture and Rural Development of Vietnam.
3. (2011-2014): Genetic characterization and development of molecular diagnostic techniques of Southern rice black streaked dwarf virus (SRBSDV). Role: Principal investigator. Funding agency: Ministry of Agriculture and Rural Development of Vietnam.
4. (2010-2013). Management of Phytophthora diseases of rubber in Vietnam. Role: Principal investigator. Funding agency: Ministry of Agriculture and Rural Development of Vietnam.
5. (2009-2011). Detection and Identification of begomoviruses of major crops in northern Vietnam. Role: Project leader. Funding agency. Ministry of Education and Training of Vietnam.
6. (2009-2010). Identification and control of phytoplasmas causing witches’s broom diseases of bamboos in northern Vietnam. Role: Project leader. Funding agency: Vietnam Union of Science and Technology Association.
7. (1998-2001). Diagnosis and control of plant diseases in northern Vietnam. This is an international collaboration program (CS2 1994/965). Role: researcher. Funding agency: the Australian Centre for International Agricultural Research (ACIAR).

# VI. Publications

***International publications***

1. Le Thi Thanh Tam, **Ha Viet Cuong**, Mai Van Tri, Ha Minh Thanh, Pham Ngoc Dung, Trinh Xuan Hoat & Nguyen Van Liem (**2016**). First report of powdery mildew caused by Erysiphe quercicola on Hevea brasiliensis in Viet Nam. ***Plant Disease***. Vol. 100. (6): 1239.
2. Nguyen The Quyet, **Ha Viet Cuong**, Le Thi Anh Hong & Kasem Soytong (**2016**). Control mechanism of Chaetomium spp. and its biological control of Citrus root rot in pot and field experiments in Vietnam. ***Journal of Agricultural Technology***. Vol. 12 (3): 593-600.
3. Le Thi Thanh Tam & **Ha Viet Cuong** (**2015**). First report of Golovinomyces sordidus causing powdery mildew on plantain in Vietnam. ***New Disease Reports***. Vol.32. pp: 33.
4. Schreinemachers, P., Balasubramaniam, S., Boopathi, M., **Ha, C.,** Kenyon, L., Praneetvatakul, S., Sirijinda, A., Le, T., Ramasamy, S. & Wu, M. (**2015**). Farmers’ perceptions and management of plant viruses in vegetables and legumes in tropical and subtropical. ***Asia Crop Protection***. 75: 115-123.
5. Tuan Tu Tran, Nga Nguyen, Ngân Phan, Hong Thi Nguyen, Boris Szurek,Ralf Koebnik, Ham Le Huy, **Cuong Ha Viet**, & Sebastien Cunnac (**2015**). Confirmation of

Bacterial Leaf Streak of Rice Caused by Xanthomonas oryzae pv. oryzicola in Vietnam. ***Plant Disease***. Vol. 99 (12), p. 1853

1. Schubert, J., Thieme, T., Thieme, R., **Ha, C.V**. & Hoang, G.T. (**2015**). Molecular and biological characterization of Potato virus Y isolates from Vietnam. ***Journal of Phytopathology***. Vol. 163: 620-631.
2. Masaru Matsumoto & **Ha Viet Cuong** (**2014**). Genetic characterization of the rice sheath blight pathogen Rhizoctonia solani AG1-IA in North Vietnam by rep-PCR and sequence analysis. ***Journal of Plant Pathology***. Vol. 96. (2): 377-380.
3. Pham Ngoc Dung, **Ha Viet Cuong**, Nguyen Van Tuat & Masaru Matsumoto (**2014**). Analysis of internal transcribed spacer (ITS) region of Phytophthora tropicalis causing quick wilt disease of black pepper in Vietnam. ***Archives of Phytopathology and Plant Protection***. Vol. 47 (7): 842-851.
4. Nguyen The Quyet, **Ha Viet Cuong**, Le Thi Anh Hong & Kasem Soytong **(2014).** Antagonism of Chaetomium spp. and their ability to control citrus root rot caused by

Phytophthora parasitica in Vietnam. ***Journal of Agricultural Technology***. Vol. 10 (5): 1307-1316

1. **Ha Viet Cuong**, Le Van Hai, Tran Ngoc Tiep & Ngo Bich Hao (**2011**). Molecular characterization of Tomato leaf curl Hainan virus and Tomato leaf curl Hanoi virus in Vietnam. ***J. ISSAAS***. Vol. 17 (2): 70-82.
2. Fukuda, S., Trinh, H., Mori, Y., Pham, C., Ho, T., Shimasaki, Y., Araki, T., Matsumoto M., **Ha, C.,** & Do, H. (**2011**). A Model-Based Evaluation of Dissolved Nitrogen Dynamics in a Paddy Field in Red River Delta, Vietnam. ***Acta Horticulturae***. Vol. 19: 47–56.
3. Pham Hong Thai, **Ha Viet Cuong**, Nguyen Thi Hoa, Nguyen Van Giang, Do Huy Trinh, Tran Dinh Chien & Nguyen Van Dinh (**2011**). Molecular diagnosis of Sacbrood virus and Deformed wing virus infecting honeybees in Northern Vietnam. ***Journal of Science and Technology***. Vol. 49 (1A):132-140.
4. **Ha Viet Cuong**, Nguyen Viet Hai, Vu Trieu man & Masaru Matsumoto (**2009**). Rice dwarf disease in North Vietnam in 2009 is caused by Southern rice black-streaked dwarf virus (SRBSDV). ***Bulletin of the Institute of Tropical Agriculture***, Kyushu University. Vol. 32: 85-92.
5. Fukuda, S., Trinh, H., Do, H., Pham, C., Araki, T., Matsumoto, M., Ho, T., Mori, Y., Shimasaki, Y., **Ha, C.,** &Kurosawa, K. (**2008**). A preliminary model for estimating daily solar radiation in Gia Lam district, Hanoi, Vietnam. ***Bulletin of the Institute of Tropical Agriculture***, Kyushu University. Vol. 31: 51-60.
6. **Ha, V.C.,** Coombs, C., Revill, P.A., Harding, R.M., Vu, M.T. & Dale, J.L.(**2008**). Molecular characterization of begomoviruses and DNA satellites from Vietnam: additional evidence that the New World geminiviruses were present in the Old World prior to continental separation. ***Journal of General Virology***. Vol. 89: 312-326.
7. **Ha, V.C.,** Coombs, C., Revill, P.A., Harding, R.M., Vu, M.T.& Dale, J.L.(**2008**). Design and application of two novel degenerate primer pairs for the detection and complete genomic characterization of potyviruses. ***Archives of virology***. Vol. 153: 2536.
8. **Ha, V.C.,** Coombs, C., Revill, P.A., Harding, R.M., Vu, M.T. & Dale, J.L. (**2008**).

Identification and sequence analysis of potyviruses infecting crops in Vietnam . ***Archives of virology***. Vol.153: 45-60.

1. Fukuda, S., Trinh, H., Pham, C., Araki, T., Do, H., Ho, T., Mori, Y., Shimasaki, Y., Matsumoto, M., **Ha, C.,** & Kurosawa, K. (**2007**). Sensitivity analysis on the daily water temperature model for paddy fields in Red River Delta, Vietnam. ***Bulletin of the***

***Institute of Tropical Agriculture***, Kyushu University. Vol. 30: 67-81

1. **Ha, V.C.,** Coombs, C., Revill, P.A., Harding, R.M., Vu, M.T., Dale, J.L. **(2006**). Corchorus yellow vein virus, a New World geminivirus from the Old World. ***Journal of General Virology***. Vol. 87: 997-1003.
2. Revill, P.A., **Ha, V.C.,** Lines, R.E., Bell, K.E., Vu, M.T. & Dale, J.L. **(2004**). PCR and ELISA-based virus surveys of banana, papaya and cucurbit crops in Vietnam**. *Asia Pacific Journal of Molecular Biology and Biotechnology***. Vol. 12: 27-32
3. Revill, P.A., **Ha, V.C.,** Porchun, S.C., Vu, M.T. & Dale, J.L. (**2003**). The complete nucleotide sequence of two distinct geminiviruses infecting cucurbits in Vietnam. ***Archives of Virology***. Vol.148: 1523-1541
4. Bell, K.E., Dale, J.L., **Ha, V.C.**, Vu, M.T. & Revill, P.A. (**2002**). Characterisation of Rep - encoding components associated with banana bunchy top nanovirus in Vietnam. ***Archives of Virology***. Vol.147: 695-705
5. Bateson, M.F., Lines, R.E., Revill, P.A., Chaleeprom, W., **Ha, V.C.,** Gibbs, A.J. & Dale, J.L. (**2002**). On the evolution and molecular epidemiology of the potyvirus Papaya ringspot virus. ***Journal of General Virology***. Vol. 83: 2575-2585

***Publications in Vietnamese***

1. **Ha Viet Cuong**, Nguyen Van Vien, Tran Ngoc Tiep, Ha Giang, Tran Thi Nhu Hoa, Nguyen Duc Huy (**2015**). Genetic diversity analysis of Pyricularia oryzae in the Red River Delta of Viet Nam using Rep-PCR. ***Journal of Science and Development***. Vol. 13. (7):1061-1069
2. Lê Thi Thanh Tam, Ha Minh Thanh, Pham Ngoc Dung, Nguyen Van Liem, Nguyen Minh Khue, Mai Van Tri, **Ha Viet Cuong**, Yukio Sato & Susumu Takamatsu (**2015**). Identification of the powdery mildew Erysiphe quercicola S.Takam & U.Braun on Para-rubber trees in Vietnam. ***Journal of Plant Protection***. Vol. 259. (2): 33-42.
3. Nguyen Van Viet, Nguyen Thi Van, Le Thi Bich Thuy, **Ha Viet Cuong**, Nguyen

Manh Hung, Ngo Van Ngon, Nguyen Van Thang, Nguyen Xuan Thu, Ngo Thi Thuy Linh (**2015**). Evaluation of resistance to Ralstonia solanacearum of peanut collection by artificial inoculation in combination with SSR markers. ***Journal of Plant Protection***. Vol. 259. (2): 9-56.

1. Nguyen Duc Thành, Trinh Xuan Hoat, Mai Van Quan và **Ha Viet Cuong** (**2015**). Molecular identification of a 16SRII-A Phytoplasma associated with witches’ broom disease of cassava in South Eastern region. ***Journal of Plant Protection***. Vol. 259. (2): 42-49
2. Phạm Thi Dung, Nguyen Thi Bich Ngoc, Phạm Thi Vượng, **Ha Viet Cuong**, Nguyen

Nam Dương, Do Duy Hung, Ngo Thanh Huong, Đinh Xuan Hoan (**2015**). ldentification of Phytophthora sp. causing gummosis disease on Thanh Tra pumelo in Thua Thien Hue Province. ***Journal of Plant Protection***. Vol. 258. (1): 11-15.

1. Bui Thu Huyen, Nguyen Thi Lan Hoa, Nguyen Duc Anh, Tran Danh Suu & **Ha Viet Cuong** (**2015**). Identification of the causal virus of mungbean yellow mosaic disease in Vietnam. ***Journal of Agriculture and Rural Development***. 5: 10-18.
2. Nguyen Duc Thành, Mai Van Quan, Ngo Gia Bon, Nguyen Huu Hy, **Ha Viet Cuong**, Trinh Xuan Hoat (**2014**). Biological characterization of cassava Witches’ broom disease associated with Phytoplasma in Dongnai province. ***Journal of Science and Development***. Vol. 12. (3): 325-333.
3. Nguyen Hoang Quang, Lại Phương Liên, Do Thi Hanh, **Ha Viet Cuong** & Pham Xuan Hoi (**2014**). Genetic diversity of the S7 segment of Southern rice black streaked dwarf virus in Vietnam. ***Journal of Agriculture and Rural Development.*** 2: 27-32.
4. Nguyen Thi Lan Hoa, Bui Thi Thu Huyen, Nguyen Duc Anh, Nguyen Thi Thanh Thuy & **Ha Viet Cuong** (**2014**). Field screening of mungbean (Vigna radiata) germplasm for resistance to mungbean yellow mosaic disease (MYMD) in Phu Yen, Vietnam. ***Journal of Agriculture and Rural Development***. 6: 19-26.
5. Nguyen Hong Tuyen, Pham Ngoc Dung, Le Dinh Thao, Nguyen Thuy Hạnh, **Ha Viet Cuong**, Hoang Thi Hoai & Pham Thi Tam (**2014**). Study on antagonistic bacteria for control of Phytophthora palmivora causing black pod disease in cocoa. ***Journal of Plant Protection***. Vol. 256, 5: 38-41.
6. Nguyen Duc Thanh, Trinh Xuan Hoat, Mai Van Quan & **Ha Viet Cuong** (**2014**). ldentification of Phytoplasmas associated with diseases of some plants by PCR assay and DNA sequencing. ***Journal of Plant Protection***. Vol. 255 (4): 28-33.
7. Nguyen Thuy Hanh, Le Dinh Thao, Doan Thi Thanh, Pham Ngoc Dung, Nguyen Hong Tuyen & **Ha Viet Cuong** (**2014**). Biological characterization of Colletotrichum spp. causing anthracnose disease of pepper in provinces of Northern Vietnam. ***Journal of Plant Protection***. Vol. 252. 1: 47-52.
8. Ngo Van Ngon, Nguyen Van Viet, **Ha Viet Cuong**, Nguyen Manh Hùng & Nguyen Thi Van (**2014**). Some biological characteristics of Ralstonia solanacearum Smith causing bacterial wilt disease of groundnut in Northern Vietnam. ***Journal of Vietnam Agricultural Science and Technology***. 6:108-115.
9. Phạm Ngoc Dung, Nguyen Hong Tuyen, Nguyen Thuy Hanh, Le Đinh Thao, **Ha Viet Cuong**, Ha Giang (**2013**). Identification of causal pathogen of cocoa black pod disease in High-land and South-East of Vietnam. ***Journal of Plant Protection***. Vol. 251. (6): 31-36.
10. Le Thu Hien, Vu Thi Phuong Binh, Tran Ngoc Khanh, Ha Minh Thanh, Phi Thi Cam Uyen, **Ha Viet Cuong** (**2013**). Study on antagonistic microorganisms to control Fusarium oxysporum Schlecht causing yellow wilt diseases on tomato and cucumber. ***Journal of Plant Protection***. Vol. 250. (5): 30-36.
11. Ha Minh Thanh, Vu Thi Phương Binh, Tran Ngoc Khanh, Le Thu Hien, Bui Xuan Thang, **Ha Viet Cuong** (**2013**). Preliminary study on antagonistic microorganisms to control Phytophthora diseases on black pepper, mango, durian and citrus. ***Journal of Plant Protection***. Vol. 250. 5: 24-30.
12. Nguyen Duc Thanh, Mai Van Quan, Vu Duy Hien, Ngo Gia Bon, Tran Nguyen Ha, **Ha Viet Cuong** & Trinh Xuan Hoat (**2013**). Identification and molecular characterization of soybean witches’ broom disease in Dong Nai. ***Journal of Plant Protection***. Vol. 249. (3): 26-30.
13. **Ha Viet Cuong**, Luu Ha Huy Tuan, Luu Thi Thao, Nguyen Thi Hue, Nguyen Van Dinh (**2013**). Identification of Burkholderia glumae causing rice grain discoloration in Vietnam. ***Journal of Plant Protection***. Vol. 247. (1): 25-33.
14. Pham Hong Thai, **Ha Viet Cuong**, Nguyen Thi Lan, Nguyen Van Giang, Trinh Thi Thu Thuy, Nguyen Van Cuong (**2013**). Survey of honeybee diseases in Hanoi in 2011. ***Journal of Science and Technique in Beekeeping***. 1:14-20
15. Phạm Ngoc Dung, **Ha Viet Cuong**, Le Đinh Thao, Ha Giang, Tran Thi Như Hoa, Nguyen Hong Tuyen, Nguyen Thuy Hanh (**2012**). Study on Trichoderma antagonistic fungi to control of Phytophthora disease on rubber. ***Journal of Plant Protection***. Vol. 243. (3): 9-16.
16. Tran Thi Thanh Binh, Tran Thi Như Hoa, **Ha Viet Cuong** & Vu Trieu Man (**2012**). Production of antiserum against Sugarcane mosaic virus (SCMV) for diagnosis. ***Journal of Plant Protection***. Vol. 241. (1): 21-24
17. Tran Thi Thanh Binh, Tran Thi Như Hoa, Tran Thi Thanh Thuy, **Ha Viet Cuong** & Vu Trieu Man (**2012**). Identification of sugarcane mosaic virus (SCMV) on maize. ***Journal of Agriculture and Rural Development***. 2: 22-26
18. Nguyen Hong Minh & **Ha Viet Cuong** **(2011)**. Study of virus resistance and adaptation of hybrid combinations of tomato in spring summer season in 2011 in Red River Delta. ***Journal of Agriculture and Rural Development***. (5): 10-17
19. Phạm Hong Thai, **Ha Viet Cuong**, Nguyen Thi Lan, Nguyen Van Giang, Trinh Thi Thu Thuy & Nguyen Văn Cương (**2012**). Survey of beekeeping in Hanoi region in 2011. ***Journal of Science and Technique in Beekeeping***. (1):3-10.
20. Pham Hong Thai, **Ha Viet Cuong**, Nguyen Van Giang, Tran Dinh Chien, Nguyen Văn Dinh, Ha Quang Hung (**2011**). Molecular detection of Sacbrood virus (SBV) and Deformed wing virus (DWV) infecting Apis mellifera in Northen Vietnam. ***Journal of Agriculture and Rural Development***. 6: 32-36
21. Ngo Bich Hao & **Ha Viet Cuong** (**2010**). Identification of begomoviruses causing tomato yellow leaf curl disease in some provinces of Northern Vietnam. ***Journal of Plant Protection***. Vol. 234. (6):18-22.
22. **Ha Viet Cuong** (**2010**). Detection and molecular characterization of Kudzu mosaic virus on soybean in Northern Vietnam. ***Journal of Plant Protection***. Vol. 233. (5):1117.
23. **Ha Viet Cuong**, Le Van Hai, Nguyen Viet Hai & Vu Trieu Man (**2010**). Identification of the causal agent of a rice yellow stunt disease in Bac Giang province. ***Journal of Plant Protection***. Vol. 226. (4): 8-12
24. Pham Ngoc Dung, **Ha Viet Cuong** & Nguyen Van Tuat (**2010**). Analysis of Internal transcribed spacer (ITS) of Phytophthora tropicalis causing quick wilt disease of black pepper in Vietnam. ***Journal of Agriculture and Rural Development***. 4: 17-22.
25. **Ha Viet Cuong**, Ngo Hai Anh, Le Dinh Manh & Vu Trieu Man (**2009**). Molecular characterization of Rice grassy stunt virus (RGSV) and Rice ragged stunt virus (RRSV) from the South of Vietnam. ***Journal of Plant Protection***. Vol. 227. (5): 26-32
26. **Ha Viet Cuong**, Nguyen Viet Hai, Vu Trieu Man (**2009**). Identification of the causal agent of rice black streaked dwarf disease in Northern Vietnam in 2009. ***Journal of Plant Protection***. Vol. 228. 6: 24-31.
27. Ngo Vinh Vien, Pham Thi Vuong, Nguyen Như Cuong, Ta Hoang Anh, Nguyen Thi Me, Phan Bich Thu, Pham Hong Hien, **Ha Viet Cuong** **(2009)**. Diagnosis of a rice black streaked dwarf disease in some provinces of Northern Vietnam. ***Journal of Plant Protection***. Vol. 228. 6: 8-18
28. Nguyen Viet Hai, Le Nhat Thanh, Ngo Bich Hao & **Ha Viet Cuong (2009**). Survey of viral diseases on tomato grown in summer spring season (2007) in Hanoi and surrounding areas. ***Journal of Plant Protection***. Vol. 223. (1): 17-23.
29. Le Luong Te, **Ha Viet Cuong** & Vu Trieu Man (**2003**). Production of antiserum specific to purified glycoprotein of Ralstonia solanacearum for diagnosis using an ELISA assay. ***Journal of Plant Protection***. Vol. 190. 4: 17-20.
30. **Ha Viet Cuong**, Đỗ Xuân Đạt, Vu Trieu Man, Peter Revill, James Dale, Steven Liew (**2001**). Analysis of genetic diversity of Papaya ringspot virus type P (PRSV-P) in Northern Vietnam using a Hetoroduplex Mobility Assay. ***Journal of Plant Protection***. Vol. 178. 3: 15-18.

***Books/Book chapters***

1. **Ha Viet Cuong**. 2012. Plant viruses, phytoplasmas and viroids. Text book (in Vietnamese). Hanoi University of Agriculture Press.
2. **Ha Viet Cuong**. 2011. Chapters: Gene-for-gene theory, plant – pathogen interaction, R and Avr genes, induced resistance. In Plant Immunology (Do Tan Dung ed.). Text book (in Vietnamese). Hanoi University of Agriculture Press.

# VI. Other information

Much of my work has been identification of plant pathogens such as fungi, bacteria (including phytoplasmas) and particularly viruses in Vietnam.

Currently, I am focusing on some topics:

1. Characterisation of RNA viruses (potyviruses, nucleorhadoviruses, tospoviruses, closteroviruses, tenuiviruses, reoviruses) and DNA viruses (begomoviruses, badnaviruses) infecting major crops in Vietnam.
2. Exploration of ability of some chemicals that may trigger the systemic acquired resistance (SAR) of plants to control plant pathogens, particularly viruses.
3. Development of PCR-, RCA-, LAMP-, lateral flow- and ELISA-based diagnostic techniques for plant viruses.