**Curriculum vitae**

**1. Name**: **PHAM VAN CUONG** (male)

**2. Date of Birth**: October, 10, 1971, NamDinh, Vietnam

**3. Address**: To 16, Khu 918, Phuc Dong, Long Bien district, Hanoi, Vietnam: Tel: + 84-4- 3 8764 0803

**4. Office**: Vietnam National University of Agriculture

 **5. Office address**: Trauquy, Gialam, Hanoi, Vietnam

Tel:+84 243 8276 346; Fax: +84 2438 276 554

**6. E-mail**: pvcuong@vnua.edu.vn

**7. Employment**:　The Government

**8. Position :** Professor,Vice President of Vietnam National University of Agriculture (VNUA)

 Director of International Plant Research Vietnam/Japan (CIPR)

**9. Major**: Crop Science

**10. Academic background**

Oct. 1990 - Jan. 1995: Undergraduate course in Hanoi Agricultural University

Jan.1998 - Jan. 2000: Master course in Hanoi Agricultural University

April 2001 - April 2004: Doctor course in the United Graduate School of Agriculture, Kagoshima University, Japan.

Oct-Dec. 2007: Visiting scholar in UC Davis, California, USA

July. 2008: Visiting Researcher, Kyushu University, Japan.

March. 2009: Visiting Scholar in Louvain university, Belgium

May-Oct, 2011: Visiting Scholar at University of California at Riverside, The USA

11. Employment record:

From 1995 to Nov 2009 : Lecturer in Hanoi University of Agriculture.

From 2009-2018: Associate professor in Vietnam National University of Agriculture

From April 2018-Now: Professor in Vietnam National University of Agriculture

12. Direction of research in last 5 years

- Agronomical and physiological related to nitrogen use efficiency and stress tolerance including drought, salt and submergence in rice plant

- Genetics analysis for traits related to short growth duration, bacterial leaf blight, brown plant hopper , nitrogen use efficiency, drought and submergence tolerance of rice

- Develop cultivation method for rice production as SRI, low-input, saving water

- Breeding sorghum plant for animal feed and biofuel

- Breeding and cultivation of cereal crop (millet and buck wheat) for function nutrient

**14. Experience in Education and Science Society**

- Member of national committee (MOET) on curriculum design on undergraduate program on agronomy, crop science

- Member of national committee on life science, Ministry of Science and Technology, Vietnam

- Member of university committee on master program and PhD program design in Hanoi university of Agriculture

- Member of advance training education program of plant science 2006-2008, HUA

- Member of coordinating committee of CUI program of French council university, 2007-2012, Belgium

- Member of Asia crop science association (ACSA)

**15. Teaching courses**

Undergraduate: Field crop, Advanced field crop, Plant Physiology

Postgraduate: Principle of cereal crop production, Plant respond to climate change

**16. Publication**

**16.1. Books**

**Pham Van Cuong**, Tang Thi Hanh, Vu Van Liet, Nguyen Thien Huyen, Nguyen Huu Te. 2015*. Cay lua (Oryza sativa. L).* Vietnam National University of Agriculture Press. Page 1-160

**Pham Van Cuong***. 2015. Sorghum Bicolor L.).* Vietnam National University of Agriculture Press. Page 1-159.

**Pham Van Cuong***. 2015. Finger Millet and Cultivation.* Vietnam National University of Agriculture Press*. Page 1-115.*

Vu Quang Sang, **Pham Van Cuong,** Nguyen Thi Nhan, Nguyen Van Phu, Mai Thi Tan and Nguyen Thi Kim Thanh**,***.2015. Applied Plant Physiology.* Vietnam National University of Agriculture Press. Page 1-210.

**Pham Van Cuong***. 2016. Heterosis for physioligical and Agronomical of Hybrid Rice.* Vietnam National University of Agriculture Press. Page 1-137.

Atsushi Yoshimura, Hideshi Yasui, **Pham Van Cuong**, Motoyuki Ashikari, Enric E. Angeres, Nguyen Van Hoan, Tran Tan Phuong, Yoshiyuki Yamagata, Norimitsu Hamaoka, Kazuyuki Doi, Tang Thi Hanh, Mai Van Tan, Nguyen Quoc Trung, Nobuyuki Iseri, and Kazuo Ogata. *Crop Production under Stressful Conditions Application of Cutting-edge Science and Technology in Developing Countries. Chapter 2.* *Development of Rice Promising Lines Using Genomic Technology and Information in Vietnam* PP11-27. Springer 2018. ISBN 978-981-10-7307-6 ISBN 978-981-10-7308-3 (eBook)<https://doi.org/10.1007/978-981-10-7308-3>2

**16.2. Papers**

1. **Cuong Van Pham**., Murayama, S. and Kawamitsu, Y. 2003. *Heterosis for photosynthesis, dry matter production and grain yield in F1 hybrid rice (Oryza sativa L.) from thermo-sensitive genic male sterile line cultivated at different soil nitrogen levels*. Journal of Environment Control in Biology. 41 (4) : 335-345. (ISI, IF = 0.4)

*2.* **Cuong Van Pham**., Murayama, S., Ishimine, Y., Kawamitsu, Y., Motomura, K. and Tsuzuki, E*.* 2004. *Sterility of TGMS line, heterosis for grain yield and related characters in F1 hybrid rice (Oryza sativa L.).* Journal of Plant Production Sciece 1 (4) : 22-29.(ISI, IF = 0.6)

3. **Cuong Van Pham**., Murayama, S; Kawamitsu, Y., Motomura, K, and Miyagi, S*.* 2004, *Heterosis for Photosynthetic and Morphological characters in F1 hybrid rice (Oryza sativa L.) from a thermo-sensitive genic male sterile line at different growth stages.* Japanese Journal of Tropical Agriculture 48 (3) : 137-148.

4. **Cuong Van Pham**., Murayama, S. and Kawamitsu, Y. 2005. *Heterosis in Temperature Repsonse of photosynthetic characters in F1 hybrid rice*. Journal ofEnvironment Control in Biology. 43 (3) : 193-200. (ISI, IF = 0.4)

5. **Cuong Van Pham**, Nguyen The Hung, Tang Thi Hanh and, Takuya Araki*.* 2005*. Influence of Light Intensity and Diurnal change on Heterosis for Photosynthetic Characters in F1 hybrid Rice (Oryza sativa* L.). Bulletin of the Institute of Tropical Agriculture, Kyushu University, Japan (28).P25-34.

6. **Pham Van Cuong** and Hoang Tung. 2005. *Relationship between heterosis for photosynthetic ability and grain yield in F1 hybrid rice*. Journal of Agricultural Science, Hanoi Agricultural University (4) 253-261 (in Vietnamese with English summary).

7. **Pham Van Cuong** , Pham Thi Khuyen and Pham Van Dieu. 2005. *Affection of Nitrogen fertilizer level on dry matter production and grain yield in F1 hybrid and inbred rice (Oryza Sativa L.)* . Journal of Agricultural Science, Hanoi Agricultural University (5) 354-361 (in Vietnamese with English summary ).

8. Naoto Inoue, **Pham Van Cuong**, Teruo Arase, Nguyen The Hung, Takuya Araki and Toshihiro Mochizuki, 2006. *Ethnobotanical study on the crop resources in Asian mountainous area 2. Finger and foxtail millets as food and medicine in northern part of Vietnam*. Japanese Journal of Crop Science (75) p274-275.

9. Teruo Arase, **Pham Van Cuong**, Nguyen The Hung, Takuya Araki, Tohihiro Mochizuki, Naoto Inoue. 2006. *Road construction and revegetation in the alpine area of South-East Asia*. Bulletin Shinshu University, P77-82.(in Japanese with English abstract).

10. **Pham Van Cuong** , Chu Trong Ke. 2006. *Affection of light intensity and temperature on heterosis for photosynthetic characters in F1 hyrbid rice (Oryza sativa L.) in different cropping seasons. Journal of Agricultural Science*, Hanoi Agricultural University (**5**) 9-16 (in Vietnamese with English abstract).

11. **Pham Van Cuong**, Nguyen Thi Kim Lien, Tang Thi Hanh. 2007, *Affection of cropping season on Heterosis for Nitrogen efficiency in F1 hybrid rice*.Journal of Agricultural Science, Hanoi Agricultural University (3) 14-21 (in Vietnamese with English Summary).

12. **Pham Van Cuong**, Uong Thi Kim Yen. 2007, *Affection of free nitrogen basal-dressing on dry matter production and grain yield in F1 hybrid and inbred cultivars of rice (Oryza Sativa L.).* Journal of Agricultural Science, Hanoi Agricultural University (**2**) 3-10 (in Vietnamese with English summary ).

13. Tang Thi Hanh, Takuya. Araki, **Pham Van Cuong**, Toshihiro Mochizuki, Atsushi Yoshimura and Fumitake Kubota. 2008. *Characteristics of CO2 exchange rate of fleg leaves in Vietnamese hybrid rice variety and its parents durring grain filling stage*. Journal Tropical Agriculture and Development, 52(4) (104-110).

14. Tang Thi Hanh, Takuya. Araki, **Pham Van Cuong**, Toshihiro Mochizuki, Atsushi Yoshimura and Fumitake Kubota. 2008. *Effects of nitrogen supply restriction on photosynthetic characters and dry matter production in Vietlai 20, a Vietnamese hybrid rice variety, during grain filling stage*. Tropical Agriculture and Development, 52(4) , 111-118.

15. Shinji Fukuda, Trinh Quang Huy, **Pham Van Cuong**, Takuya Araki, Do Nguyen Hai, Ho Thi Lam Tra, Yuki Mori, Yohei Shimasaki, Masaru Matsumoto, Ha Viet Cuong and Kiyoshi Kurosawa. 2008. *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, (30), pp 67-81.

16. Bui Quang Tuan, Nguyen Xuan Trach, **Pham Van Cuong**. (2008). *Nutritive values of some sorghum varieties grown in winter in Gia Lam district of Hanoi* .Journal of Science and Development, Hanoi University of Agriculture (1) 52-55 (in Vietnamese with English Summary)

17. Ha Van Thai, Nguyen The Quang, **Pham Van Cuong** ,2008, Study on irrigation on agronomic characters of pine apple plants(*Ananas con omsosus* L. Merrill), 2008. Journal of Science and technology in Agriculture and Rural Development . (6), p70-74.

18. **Pham Van Cuong**, Lusi Yologialong, 2008**,** *Affect of non-basal N fertilizer together with sparce planting on rice cultivat VietLai 24 under low- input fertilizers in spring season* , Journal of Science and technology in Agriculture and Rural Development . (8); p7-12

19. **Pham Van Cuong**, Hoang Viet Cuong, Nguyen Huu Cuong, Naoto Inoue, 2008. Botanical and Agronomical characters of common buck wheat cultivars *(Fagopyrum esculentum Moench) collected from mountainous region in North Vietnam and Japan*, . Journal of Science and Development, Hanoi University of Agriculture (6) 52-55 (in Vietnamese with English Summary).

20. **Pham Van Cuong**, Ngo Van Toan, Duong Thi Thu Hang, 2008. *Affection of Potassium on Photosynthesis and grain yield of F1 hybrid rice under Low Nitrogen fertilizer condition.* Journal of Science and Technology in Agriculture and Rural Development , Vol 10, P24-28.(in Vietnamese with English Summary).

21. Tran Anh Tuan**, Pham Van Cuong.** 2008**.** *Affection of**chitosan on growth and grain yield of rice plant under now N application.* Journal of Science and Development, Hanoi University of Agriculture (5) 412-417 (in Vietnamese with English Summary)

22. **Pham Van Cuong**, 2008. *Study on relations of agrobiological characteristics with grain yield of several finger millets cultivars (Eleusine coracana L.),* Journal of Science and Technology in Agriculture and Rural Development (12), 25-30 (in Vietnamese with English Summary)

23. **Pham Van Cuong**, Nguyen Thi Thu Thuy. 2008. *Botanic and bioagronomic characters of several Foxtail millets cultivar*, Journal of Science and Development, Hanoi University of Agriculture (6), p497-505 (in Vietnamese with English Summary)

24. **Pham Van Cuong**, Ngo Thi Hong Tuoi. 2008. *Correlation between grain yield and related characters in restorer lines of rice under low nitrogen application*, Journal of Science and Development, Hanoi University of Agriculture (6), p 522-528(in Vietnamese with English Summary)

25. **Pham Van Cuong**, Hoang Viet Cuong, Duong Thi Thu Hang, Nguyen Duc Doan, Nguyen Thi Thanh Thuy, Cao Huong Giang. 2009. *Genetic conservation and utilization of foxtail millet (setaria italica (L.) Beauv.) for nutritious food production: A case of sustainable agriculture respnding to climate change in the mountainous region in Vietnam*. Journal of International Society for Southeast Asia Agricultural Science, (ISSAAS) 2009, Vol. 15 (1), page 9-15.

26. Hoang Viet Cuong, **Pham Van Cuong**, Naoto Inoue, Duong Thi Thu Hang, Nguyen Huu Cuong, Trinh Thi Ngoc Diep, 2009. *Morphological and agronomical characters of some finger millet cultivars (Eleusine coracana L. Gaernt) collected from Northen part of Vietnam and Japan*. Journal of Science and Development, Hanoi university of Agriculture, VII (1), P1-9 (in Vietnamese with English Summary)

27. **Pham Van Cuong**. 2009. *Correlation among photosynthetic characters, dry matter accumulation and tuber yield in Sweet potato (Ipomoea batatas L.*). Journal of Science and Technology in Agriculture and Rural Development (2), 22-26 (in Vietnamese with English Summary)

28. **Pham Van Cuong**. 2009. *Photosynthetic and root characters related to drought tolerance in rice plant*, Journal of Science and Development, Hanoi university of Agriculture, (special issue no2). P 1-8.

29. **Pham Van Cuong,** Vuong Quynh Dong**,** 2009, *Heterosis for photosynthetic and agronomic characters in F1 hybrid maize (Zea Maize). 2009*. Journal of Science and Development, Hanoi university of Agriculture, (2) 137-143.

30. Duong Thi Thu Hang**, Pham Van Cuong, 2009,** *Heterosis for drought tolerance in F1 hybrid rice crossed between upland rice and paddy thermo sensitive male sterile line.*Journal of Science and Technology in Agriculture and Rural Development (2), 3-8 (in Vietnamese with English Summary)

31. Mai Thi Tan, Nguyen Truong Son, **Pham Van Cuong**, Nguyen Van Tinh, Nguyen Thi Thanh Ha, Ha Thi Tham. 2009. Effect of *Natri Silicat and Natri humat on growth and yielding of rice variety HuongThom1 under different N fertilizer condition*. Journal of Science and Development (3), 232-238.

32. **Pham Van Cuong**, Nguyen Thi Huong, Duong Thi Thu Hang, Tang Thi Hanh, Takuya Araki, Toshihiro Mochizuki, 2010. *Nitrogen Use efficiency in F1 hybrid, improved and local cultivar of rice (Oryza Sativa L.) during different cropping season*. Journal of Science and Development, Vol. 8, English issues, page 50-59.

33. **Pham Van Cuong**, Bui Quang Tuan, Nguyen Xuan Trach, Nguyễn Tuấn Chinh, Trần Quốc Viêt. 2010. Relationship between phisological and agronomical traits with biomass production in shorgum plant *(Sorghum bicolor (L) Moench) in winter season for animal feed.* Journal of Science and Technology in Agriculture and Rural Development Vol. 152 (5), 3-10 (in Vietnamese with English Summary)**.**

34. **Pham Van Cuong,** Vu Van Quang, Vu Thi Thu Hien. 2010 Affect of cropping season on heterosis for photosynthesis and grain yield of F1 hybrid rice *(Oryza sativa L.)*. Journal of Science and Development Number 4, page, 583-590. (In Vietnamese with English summary

35. **Pham Van Cuong, 2010** *Effect of the System of Rice Intensification (SRI) on net assimilation rate and grain yield in hybrid rice Viet lai 24 under low Nitrogen fertilizer condition****,*** Journal of Science and Technology in Agriculture and Rural Development (5), 52-57 (in Vietnamese with English Summary)**.**

36. **Pham Van Cương,** Do Thi Thu Huyen, Nguyen Xuan Trach, 2011, *Effect of nitrogen fertilizer and planting density on forage production, grain yielding and nutrients of shorgum bicolor (L) plant for animal feeds in GiaLam- Hanoi***,** Journal of Science and Technology in Agriculture and Rural Development (7), 53-58 (in Vietnamese with English Summary)**.**

37. Tang Thi Hanh**,** Duong Thi Hong Mai, Tran Van Luyen, **Pham Van Cuong**, Le Kha Tuong, Phan Thi Nga (2011). *The saline tolerance of rice resources maintained in the national crop gene bank*. Science and Technology Journal of Agriculture and Rural Development, Vietnam, Vol. 18: 8-12. (in Vietnamese with English abstract).

*38.* Hamaoka N., Araki T., Kumagai E., Hanh T.T., Cuong P.V., Ueno O (2012). *Photosynthetic traits of upper three leaves in the Vietnamese F1 hybrid rice Vietlai 45 and its parents during the ripening period*. J. Fac. Agr., Kyushu Univ., 57 (1), 27-33 (ISI, IF = 0.3)

39. Vu Thi Thu Hien, **Pham Van Cuong***. 2012. Analysis of Genetic Diversity in Rainfed Rice Accessions by SSR Markers* , Journal of Science and Development, Hanoi university of Agriculture, Vol. 10 (1) 15-24. in Vietnamese with English abstract) **.**

40. Duong Thi Hong Mai, Le Kha Tuong, Phan Thi Nga, Tran Van Luyen, **Pham Van Cuong**. *2012. Effect of nitrogen fertilizer and planting density on grain yield of sticky rice NepOc under salinity condition.* Journal of Agriculture and Rural Development, Vietnam, Vol. 1: 28-33.

41. **Pham Van Cuong**, Tang Thi Hanh, Phan Thi Hong Nhung, Hoang Thai Hoa (2012). *Photosynthetic and agro-biological characteristics of local rice cultivar at the tillering stage under salt treatment*. Journal of Agriculture and Rural Development, Vietnam, Vol. 7: 21-26.(in Vietnamese with English abstract) **.**

42. Tang Thi Hanh, **Pham Van Cuong**, Phan Thi Hong Nhung, Nguyen Thi Trang, Le Thi Van. 2012. *Heterosis for photosynthesis in flag leaf of a hybrid rice variety Vietlai 50 (Oryza Sativa L.) during ripening stage***,** Journal of Agriculture and Rural Development, Vietnam, Vol. 15: 25-29. (in Vietnamese with English summary) **.**

43. **Pham Van Cuong,** Phan Thi Hong Nhung, Tang Thi Hanh. 2012. *Photosynthesis in some salinity tolerance rice varieties at tillering stage under different levels of nitrogen*, Journal of Agriculture and Rural Development, Vietnam, Vol.18: 19-23. (in Vietnamese with English summary ).

*44.* Hoang Van Tao, Tran Duc Vien**, Pham Van Cuong,** 2012**.** *Photosynthetic characters related to drough tolerance of plants in Poaceae and**Fabaceae family used for animal feeds.* Journal of Agriculture and Rural Development, Vietnam, Vol. 21: 15-19**.** (in Vietnamese with English summary).

*45.* Tang Thi Hanh, **Pham Van Cuong**, Phan Thi Hong Nhung*,* 2012*. Dry matter accumulation and yield of taro (colocasia esculenta var. antiquorum l. schott) at varying plant densities***.** Journal of Agriculture and Rural Development, Vietnam, Vol. 23, P 3-8: (in Vietnamese with English summary).

46. Do Thi Huong, Doan Cong Dien, Tang Thi Hanh, Nguyen Van Hoan, Pham Van Cuong (2013). *Photosynthes*is and dry matter accumulation of several new developed lines of rice short growth duration. Journal of Science and Development, Hanoi university of Agriculture, Vol. 11 (2) 154-160. in Vietnamese with English abstract) .

47. Tang Thi Hanh, Phan Thi Hong Nhung, Do Thi Huong, Pham Van Cuong, Takuya Araki, 2013. *Nitrogen used efficiency of two developed rice lines with short growth duration* . Journal of Agriculture and Rural Development, Vietnam, Vol. 14, P 9-17: (in Vietnamese with English summary).

48. Phan Thi Hong Nhung, Tang Thi Hanh, Pham Van Cuong, Tran Thi Nhu Hang, Le Mai Huong (2013). *Affect of root fungies product on photosynthesis and agronomical traits of rice cultivar Khang Dan 18 under difference N condition*. Journal of Agriculture and Rural Development, Vietnam, Vol. 10, P 37-44: (in Vietnamese with English summary).

49. Nguyen Thanh Tung, Pham Van Cuong, Nguyen Thi Thinh, Nguyen Quoc Trung, Mai Van Tan, Nguyen Thi Mai Phương, Nguyen Van Hoan. 2013. *Evaluation of genetic diversity of rice collection*. Journal of Agriculture and Rural Development, Vietnam, Vol. 20, P 3-8: (in Vietnamese with English summary).

50. Ngo Thi Hong Tuoi, Doan Kieu Anh, Quyen Ngoc Dung, Pham Van Cuong, Nguyen Van Hoan. 2013 *Relation between photosynthesis with invidual yield and quality of rice lines.* Journal of Science and Development, Hanoi University of Agriculture, Vol. 11, ( No 3): 293-303.

51. Nguyen Thi Thuy Hanh, Pham Van Cuong, Bertin Pierre. 2013.Rice nitrogen use efficiency: Genetic dissection. Tạp chí Khoa học và Phát triển, tập 11, số 6: 814-825.

52. Mai Van Tan, Do Thi Huong, Nguyen Thanh Tung, Nguyen Van Hoan and Pham Van Cuong. 2013 *Breeding of short growth duration lines derived from a cross between indica cultivar ir24 (oryza sativa l.) and oryza rufipogon*. Journal of Science and Development, Hanoi University of Agriculture, Vol. 11 (7) 154-160. in Vietnamese with English abstract).

53. Tran Thi Minh Hang, Nguyen Ha Dang, Pham Van Cuong, Tran Thi Nhu Hang. 2013. *Effect of Mycorrhizae on the growth, yield and phosphorus use efficiency of tomato plant*. Journal of Agriculture and Rural Development, Vietnam, Vol. 18, P 31-37: (in Vietnamese with English summary).

*54.* Vu Dinh Giap, Do Huu Nghi, Nguyen Dinh Luyen, Tran Thi Hong Ha, Nguyen Hong Trang, Tran Thi Nhu Hang, Le Huu Cuong, Tang Thi Hanh**, Pham Van Cuong**, Posta Katalin, Le Mai Huơng. 2013*. Effect of microbiological product on rice straw treatment on soil quality and potato yield in Kim Dong district, Hung Yen province*. Journal of Agriculture and Rural Development, Vietnam, Vol. 23, P 49-54: (in Vietnamese with English summary).

*55.* **Pham Van Cuong**, Tang Thi Hanh**,** Doan Cong Dien, Bui Quang Tuan (2013). Biomass yield and nutrient content for animals feeds of new *OPV* shorgum *(Shorghum bicolor (L.) Moench) under different ecological regions*. Journal of Agriculture and Rural Development, Vietnam, Vol. 2, P 177-183: (in Vietnamese with English summary).

*56.* Tang Thi Hanh, Phan Thi Hong Nhung, Do Thi Huong, **Pham Van Cuong**, Takuya Araki, 2013*. Nitrogen use efficiency and grain yield production of two new lines short growth duration of rice*. Journal of Agriculture and Rural Development, Vietnam, (10), P 37-44: (in Vietnamese with English summary).

57. Hanh Thi Nguyen, **Cuong Van Pham** & Pierre Bertin. 2014. *The effect of nitrogen concentration on nitrogen use efficiency rice (Oryza sativa L. subsp. Indica and japonica and O. glaberrrima Steud.) in hydroponics*. Euphytica, International Journal of Plant Breeding. Vol. 198, [Issue 1](http://link.springer.com/journal/10681/198/1/page/1), pp 137-151. (ISI, IF = 2.0)

*58.* **Pham Van Cuong**, Hoang Viet Cuong, Tang Thi Hanh, Duong Thi Thu Hang, Takuya Araki, Toshihiro Mochizuki, Atsushi Yoshimura. 2014. *Heterosis for Photosynthesis and Dry Matter Accumulation in F1 Hybrid Rice (Oryza Sativa L.) Produced from Thermo-sensitive Male Sterile Line under Drought Stress at Heading Stage.* Journal of Kyushu University. J. Fac. Agr., Kyushu Univ., 59 (2), 221–228 (ISI, IF = 0.3)

*59.* **Pham Van Cuong**, Duong Thi Thu Hang, Tang Thi Hanh, Takuya Araki, Atsushi Yoshimura, Toshihiro Mochizuki. 2014. *Photosynthesis and panicle growth rate response to drought stress of F1 hybrid rice (Oryza Sativa L.) crossed between thermo-sensitive genic male sterile (TGMS) 103S line and upland rice IR17525.* Journal of Kyushu University. J. Fac. Agr., Kyushu Univ., 59 (2), 273–277 (ISI, IF = 0.3).

*60.* **Pham Van Cuong,** Nguyen Van Hoan**. 2014.** *Progress of rice genotype improvment and production in Vietnam*. Japanese Journal of crop Science. Vol 83(1), P444-445.

*61.* Do Thi Huong, Nguyen Thanh Tung, Mai Van Tan, Tang Thi Hanh, Nguyen Van Hoan, **Pham Van Cuong** (2014). *Reponding to ecological regions of new short growth duration of rice in Hanoi and Thai Nguyen province* . Journal of Agriculture and Rural Development, Vietnam, (1), P 17-25: (in Vietnamese with English summary).

*62.* Doan Cong Dien, Tang Thi Hanh, **Pham Van Cuong** (2014). *Photosynthesis and dry matter accumulation of shorgum cultivars Sorghum bicolor (L.) Moench) trong under drought condition.* Journal of Science and Development, Vietnam National University of Agriculture, Vol. 11 (No 8): 1073-1080.

63. Tang Thi Hanh, Nguyen Thi Hien, Doan Cong Dien, Do Thi Huong, Vu Hong Quang, **Pham Van Cuong**. 2014. *Photosynthesis, dry matter accumulation and grain yield of rice promising line DCG66 under different nitrogen levels*. Journal of Science and Development, Vietnam National University of Agriculture, Vol. 12 (No 2): 146-158.

*64.* Vu Hong Quang, Vu Thi Thu Hien, Nguyen Van Hoan, **Pham Van Cuong.** 2014**.** *Agronomical traits of rice line DCG66 selected from combination of Indica IR24 and Japonica Asominori.* Journal of Agriculture and Rural Development, Vietnam, Vol. 14 (No.245), P 3-7 .

*65.* La Hoang Anh, Le Hung Linh, Dao Van Khoi**, Pham Van Cuong**, Le Huy Ham. *Detection and agronomical evaluation of plant with SUB1 genes*. Journal of Agriculture and Rural Development, Vietnam, Vol. 14 (No.245), P 8-13.

*66.* Nguyen Van Khoa, Doan Thi Thuy Linh, Nguyen Quoc Trung, Nguyen Thi Kim Thanh, **Pham Van Cuong. 2014.** *Genetic diversity of upland rice collected from mountanous regions of North Vietnam. 2014.* Journal of Agriculture and Rural Development, Vietnam, (Issue for animal and plant variety) No2 , 68-76.

67. Nguyen Van Loc, Tang Thi Hanh, **Pham Van Cuong**. 2014. *Effect of Cold Stress at Germination Stage on the Growth of Selected Rice Lines Developed from the Cross between Indica IR24 and Japonica Asominori.* Journal of Science and Development, Vietnam National University of Agriculture, Vol. 12 (No 4), P 477-484.

*68.* Ngo Thi Hong Tuoi, **Pham Van Cuong**, Nguyen Van Hoan.2014. *Analysis of Genetic Diversity in Black Rice by SSR Markers***.** Journal of Science and Development, Vietnam National University of Agriculture, Vol. 12 (No 4) 485-494.

*69.* Nguyen Quoc Trung, Le Van Trung, Nguyen Thị Trang, Nguyen Thi Thuy Duong, Nguyen Thanh Tung Nguyen Van Hoan*,* **Pham Van Cuong***. 2014. Evaluation of Genetic Diversity of Early Maturing Rice Varieties***.** Journal of Science and Development, Vietnam National University of Agriculture, Vol. 12 (No 4) 461-467.

*70.* Tran Xuan An, Dang Xuan Nghiem, Tang Thi Hanh, **Pham Van Cuong**, Do Thi Phuc. 2014. *Study on sequences of gene encoding Leas protein in some salt resitance rice varieties.* Journal of Science and Development, Vietnam National University of Agriculture, Vol. 12 (No 4) 516-521.

*71.* Do Thi Huong, Tang Thi Hanh, Nguyen Van Hoan, **Pham Van Cuong**. 2014. *Dry matter accumulation of new developed promising lines of rice with shorth growth duration under different N levels.* Journal of Agriculture and Rural Development, Vietnam, Vol. 18 (No.245), P 27-35.

72. Nguyen Thanh Nhan, Nguyen Xuan Trach, Bui Quang Tuan, **Pham Van Cuong**. 2014. *Effects of Cutting Time on Yield, Chemical Composition of Two Sorghum Lines (OPV86 and OPV88) and Quality of Ensilaged Sorghum*. Journal of Science and Development, Vietnam National University of Agriculture, Vol. 12 (No 5) 675-682.

73. Tran Manh Cuong, Nguyen Quoc Trung, Ngo Thi Trang, Nguyen Quoc Dai, Tran Van Quang, **Pham Van Cuong***.* 2014. *Characterization of Quality of Parental Lines for Breeding High Quality Two-Line Hybrid Rice*. Journal of Science and Development, Vietnam National University of Agriculture, Vol. 12 (No 5) 650-655.

*74.* Do Thi Huong, Tang Thi Hanh, Nguyen Van Hoan, **Phạm Văn Cường**. 2014. *Response of The Flag Leaf Photosynthesis to Different Growing Seasons and Nitrogen Levels in Early Maturing Line of Rice at Ripening Stage*. Journal of Science and Development Vol. 12, No.8: page 1157-1167

*75.* Do Thi Huong, Tang Thi Hanh, Nguyen Van Hoan, **Pham Van Cuong**. 2014. *Non-Structural Carbohydrates Accumulation in Stems of Early Maturing Rice Lineunder DifferentNitrogen Rates*. Journal of Science and Development, Vol. 12, No, 8: p 1168-1176.

*76.* Nguyen Van Khoa, Nguyen Thi Thu Hien , Đoan Thi Thyy Linh, **Pham Van Cuong**, Nguyen Thi Kim Thanh. 2014**.** *Physiological Characteristics Associated with Drought Tolerance in Upland Rice of Northwest Region*. Journal of Science and Development, Vol. 12, No, 8 : 1213-1222.

*77.* Ngo Thi Hong Tuoi, **Pham Van Cuong**, Nguyen Van Hoan. 2014. *Study on detection of genes related to bacterial sheath blight resistance of local black rice for rice breeding.* Journal of Agriculture and Rural DevelopmentNo. 21; 24-30.

*78.* Ngo Thi Hong Tuoi, **Pham Van Cuong**, Nguyen Van Hoan. 2014*. Result in breeding non- glutenous black rice with* bacterial sheath blight resistance. Journal of Agriculture and Rural Development (special issuse, Vol. 2. 88-94.

79. Nguyen Thi Ai Nghia, Cuong van Pham, Dinh Thi Ngọc Dinh and Toshiro Mochizuki. 2015. *Genopypic Variation in Morphological and Physiological Characteristics of rice (Oryza sativa L.) under Aerobic Conditions.* Plan Production Science. Vol. 18,, No. 4. (ISI, IF = 0.6).

80. Pham Van Cuong , Doan Cong Dien, Tran Anh Tuan, Tang Thi Hanh. 2015. *Evaluation on Drought Tolerance of Rice Lines with Indica Genetic Background Carrying Chromosome Segment Substitution from Wild Rice (Oryza rufipogon) or Japonica.* Journal of Science and Development, Vol 13, (2): 166-172.

81. Tang Thi Hanh, Phan Thi Hong Nhung, Pham Van Cuong. 2015. *Effect of nitrogen application on biomass production and nutrient feed of sorghum plant*. Journal of Science and Development, Vol 13 (3): 372-5381 .

82. Le Van Khanh, Pham Van Cuong, Tang Thi Hanh. 2015. *Dry matter accumulation and hydrat cacbon translocation of some improved rice lines developed from Khang Dan 18*. Journal of Science and Development, Vol 13 (4: 534-542 .

83. Tang Thi Hanh, Phan Thi Hong Nhung, Nguyen Trung Duc and Pham Van Cuong. 2015. *Evaluation the contribution of genes Gn1 and WFP1 to some traits of agro-physiology and grain yield in some newly developed rice lines from khang dan 18*. Journal of Agriculture and Rural Development, Vietnam, Vol. 10 (No.). 18-23.

84. Pham Van Cuong, Nguyen Thanh Tung, Nguyen Quoc Trung, Nguyen Van Hoan. 2015. *The result in breeding imprvoved Khang dan 18 variety (DCG72) with short grow duraltion and low amylose content*. Journal of Agriculture and Rural Development, Vietnam, Vol. 10 (No.). 37-43.

85. Pham Van Cuong, Fukao Takeshi, Julia Bailey-Serres. 2015. *Estimation of mrna accumulation and physiological response traits associated with submergence tolerant gene sub1a in rice plant (oryza sativa L.)*. Journal of Science and Development Volume 13 No.8, page 1382-1388.

86. Nguyen Van Khoa, Pham Van Cuong. 2015. *Nitrogen use efficiency of upland rice in TayBac regions.* Journal of Science and Development Volume 8, page 1333-1353.

87. Nguyen Van Khoa, Pham Van Cuong. 2015. *Affection of planting density and nitrogen fertilizer on growth and grain yield upland in TayBac regions*, Journal of Agriculture and Rural Development, Vietnam, Volume 11: 40-47

88. Nguyen Quoc Trung, Pham Van Cuong. 2015. *Detection of early heading date in rice plant.* Journal of Agriculture and Rural Development, Vietnam Volume 21, page 10 -15.

89. Nguyen Thi Thuy Hanh, Dang Thuy Duong, Pham Van Cuong, Pierre Bertin. 2016. *QTL mapping for nitrogen use eficiency and related physiological and agronomical traits during the vegetative phase in rice under hydroponics*. 2016. Euphytica. Vol. 211, No. 2, 2016 DOI: 10.1007/s10681-016-1778-z. (IF 2.0).

90. Le Van Khanh, Tang Thi Hanh, Vo Thi Nhung, Pham Van Cuong. 2016. *Growth and Grain Yield of Newly Developed Rice Lines with Very Short Growth Duration in Summer - Autumn Cropping Season in Nghe An Province*. Journal of Science and Development. Volume 14, No 8: page1145-1154.

91. Nguyen Hong Hanh, Nguyen Van Hoan, Pham Van Cuong. 2017. *Morphology and Anatomy Characteristics of Rice Line DCG66 Harboring Chromosome Segment from Japonica Asominori in Indica IR24 Genetic Background*. Vietnam Journal of Agriculture Science. 2017, Vol. 15, No. 1: page 20-26.

92. Le Van Khanh, Pham Van Cuong, Tang Thi Hanh. 2017. *Growth and grain yield of very short growth duration rice line under different nitrogen level and applying method of application*. Journal of Agriculture and Rural development No. 3 +4; page 40-48.

93. Phan Thi Hong Nhung, Tang Thi Hanh, Pier Bertin, Pham Van Cuong. 2017. *Effect of inorganic nitrogen forms and concentration on growth of rice genotypes under severe saline condition. 2017.* Vietnam Journal of Agriculture Science, Vol. 15, No 3: page 189-197

94. Nguyen Hong Hanh, Nguyen Van Hoan, Pham Van Cuong. 2017. *Evaluation of agronomical characters of promising lines from indica carrying Chromosome Segment Substitution line of japonica rice*. Journal of Agriculture and Rural Development Vol. 20 No.323; page 29-35.

95. Pham Thi Mai, Dong Thi Kim Cuc, Nguyen Van Quang, Phan Thanh Phương, Le Van Nhuan, Nguyen Xuan Thu, Pham Van Cuong. 2017. *Evaluation result of drought tolerance in artificial condition of peanut lines and varieties for developing materials in work of selective breeding*. Vietnam Journal of Science, Technology and Engineering. Volume 23 (12), page 21-25.

96. Pham Van Cuong, Tang Thi Hanh, Phan Thi Hong Nhung. 2018. *Affection of Potassium and Silica fertilizer on dry matter accumulation of different rice genotypes under salinity condition*. Journal of Agriculture and Rural development, Vol. 20, No 3+4, page 54-61.

97. Pham Van Cuong, Dinh Mai Thuy Linh, Ha Thi Quynh, Tran Anh Tuan. 2018. *Physiological Characters of Some Peanut Vatieties (Arachis hypogaea L.) with Drought Tolerance at Seedling Stage* . Vietnam Journal of Agriculture Science, Volume 16, number 2: Page 105-112.

98. Nguyen Hong Hanh, Nguyen Van Hoan, Pham Van Cuong. 2018. *Effect of planting density and fertilizer application on growth and grain yield of rice variety DCG66 compared to Khang dân 18 in Gia Lam, Ha Noi*. Journal of Agriculture and Rural development, Vol. 18, No 345; 33-40.

99. Hanh Thi Thuy Nguyen, Thuy Linh Mai Dinh, Trung Quoc Nguyen, **Cuong Van Pham**, 2018. *Nitrogen-Use Efficiency Evaluation and Genome Survey of Vietnamese Rice Landraces (Oryza sativa L.).* Vietnam Journal of Agricultural Sciences. Vol 1 No 2 (2018):<https://doi.org/10.31817/vjas.2018.1.2.04>.

100. Vo Huu Cong, Le Thị Thu Uyen, Nguyen Thanh Lam, Pham Van Cuong. 2018. *Evaluation of resourse for agriculture reside in CuYen Commune, Luong district, HoaBinh province*. Journal of science and technology, ThaiNguyen University. No 187(11): 25 – 30.

101. Vu Ngoc Thang, Tran Anh Tuan, Le Thi Tuyet Cham, Vu Ngoc Lan, Pham Van Cuong. . 2018. *Effect of Salinity on Growth, Physiology and Yield of Soybean [Glycine max (L.) Merr.]* . Vietnam Journal of Agriculture Science, Vol. 16, No. 6: 539-551

102. Nguyen Hong Hanh, Pham Van Cuong, Tang Thi Hanh and Nguyen Van Hoan. 2019. *Response of promising rice cssl IAS66 and its parents under different nitrogen levels*. Journal of Interntaional Society for Southeast Asia Agricultural Science (accepted). (Scorpus)

**17. Patents**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TT** | **Patents** | **Ornization issue** | **Date of Issue** | **Authors** |
| 1 | Temporary national rice variety DCG72 |  Decision No. 64/QĐ-TT-CLT by Depart of Crop Production, Ministry of Agriculture | 04/4/2017 | **Pham Van Cuong****Nguyen Van Hoan****Nguyen Thanh Tung, Tang Thi Hanh** |
| 2 | Temporary national rice variety DCG66 |  Decision No.328/QĐ-TT-CLT by Depart of Crop Production, Ministry of Agriculture | 15/10/2018 | **Pham Van Cuong**, Vu Hong Quang, Nguyen Hong Hanh, Moto Ashikari , Hideshi Yasui, Atsuhi Yoshimura |

18. Research Project Coordinator

1. Improving Nitrogen Use efficiency of rice plant under low input condition funded by Ministry of Science and Technology (MOST). 2006-2008

2. Application of wireless sensor for simulation development and grain yield in several cultivars in Northern Vietnam basing on environment and nutrient factors, funded by Ministry of Science and Technology (MOST) in cooperation with Multimedia University, Malaysia, 2005-2006

1. Extension of a model for non- free nitrogen application accompanied with planting density cultivation for F1 hybrid rice, funded by Ministry of Agriculture an Rural development (MARD). 2007-2008
2. Build up cultivation model of Millets ( *Setaria italica* Beauv.) and Finger Millets (*Eleusine coracana* Gaert.) used for nutrient food in Mountainous Northern Vietnam , a project funded by Ministry of Education and Training(MOET). 2007-2009
3. Developing shorgum bicor for cattle feed in winter season**,** funded by Ministry of Agriculture an Rural development (MARD). 2008-2009
4. Development hybrid rice production in Vietnam, 2006-2008, JSPS, Japan
5. Numerical modeling on the mechanism of effluent loads from integrated farming system in tropical region, a project in cooperation with Kyushu university, Japan, 2008-2010
6. Improving benefit of rice production under low input condition in Red River Delta , from 2009-2010, funded by Belgium
7. Study on heterosis for photosynthetic and agronomic characters related to drought tolerance in F1 hybrid rice plant in cooperation with Kyushu University, Japan, funded by Ministry of Science and technology, Vietnam. From 2010-2011
8. Study on physiological and agronomical characters related to salt tolerance in rice plant, funded by Ministry of Education and Training, Vietnam, from 2009-2010.
9. Breeding sorghum plant for animal feed funded by MARD, 2011-2013
10. Project for development of crop genotype in Midland and mountainous areas in north Vietnam, funded by JICA, 2010-2015.
11. Utilization of organic materials for vegetable and fruit tree production in Vietnam, MARD 2017-2020

**19. Supervisor for PhD student**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Name** | **Title of thesis** | **Period** | **Institute** |
| 1 | Ngo Thi Hong Tuoi | Photosynthesis and leaf blight baterial resistance in parent lines for hybrid rice breeding | 2008-2012 | Hanoi University of Agriculture |
| 2 | Nguyen Thi Thuy Hanh | QTLs analysis for agronomic and photosynthetic characters related to nitrogen use efficiency in rice plant | 2009-2012 | Louvain university, Belgium- HUA |
| 3 | Do Thi Huong | Photosynthesis and ecology adaptation of short grow duration rice plant | 2010-2013 | Hanoi University of Agriculture |
| 4 | Duong Thi Hong Mai | Agronomical related to salt tolerance of rice plant and rice cultivation under salinity soil | 2010-2014 | Vietnam Academy of Agriculture science |
| 5 | Nguyen Van Khoa    | Photosynthetic and agronomic characters related to drought tolerance in upland rice | 2012-2015 | Vietnam National University of Agriculture |
| 6 | Nguyen Quoc Trung | Study on genetic and breeding of short grow duration of rice plant | 2012-2016 | Vietnam National University of Agriculture |
| 7 | Phan Thi Hong Nhung | Detection of QTLs related to nitrogen use efficiency in rice plant under salinity condition  | 2014-2018 | Louvain university, Belgium- HUA |
| 8 | Nguyen Hong Hanh | Study on autonomic and physiological related to carbon hydrate accumulation in substitute chromosome segment between *Indica* and *Japonica* | 2016-2019 | Vietnam National University of Agriculture |