

Vincent LEBOT

Citizenship: French

Date of birth: August 14th 1958

Family: married, three children

Professional address:

CIRAD, PO Box 946, Port-Vila, Vanuatu

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Academic background:

Director of research (Professor), University of Montpellier, France (since Sept. 2004).

PhD Plant Biology, University of Montpellier (November 1988).

Employer: Scientist in CIRAD (www.cirad.fr)

Fields of expertise: Plant biology, quantitative genetics, population genetics.

- Studies on the agrobiodiversity of root crops. Development of a methodology integrating taxonomy, morpho-agronomic variation, molecular genetic diversity, and the chemical analysis of under ground organs.
- Breeding, genetic improvement of root and tuber crops.
- Supervision of graduate students.
- Scientific Coordination of international networks.

Professional experiences:

Since 1998 :

- Head of the root crops improvement programme (CIRAD-VARTC) in Vanuatu.
- Scientific coordination of :
 - INEA (International Network for Edible Aroids): « *Adapting clonally propagated crops to climatic and commercial changes* » (www.EdibleAroids.org).
 - TANSO (*Taro Network for Southeast Asia and Oceania*).
 - SPYN (*South Pacific Yam Network*).

1996-1998 : Head of northern research centre, Northern Province of New Caledonia.

1995-1996 : Scientific coordinator for genetic resources management at CIRAD, Montpellier, France.

1992-1994 : Head of tree improvement programme in Madagascar (*Eucalyptus* spp. and *Acacia* spp.).

1988-1991 : *Post Doc* at the University of Hawaii, USA.

1986-1987 : Scientist in the Laboratory for Applied Tropical Botany, University of Montpellier.

Membership: Member of *Society for Economic Botany* since 1988

Award : Medal "*David Fairchild for Plant Exploration*", National Tropical Botanical Garden, Miami, Florida, USA. 7–8th February 2003.

Secured grants:

USAID, PRSTRC. 1988. « Eco-Geographical survey of plant genetic resources in the Pacific ». **180 000 USD** over three years.

UE-FED. 1992. « Establishment of seed orchards for exotic tree species in Madagascar and development of genetic improvement strategies ». **450 000 €** over four years.

UE-FED. PTF WF 009. 1995. « Technical study for the development of flooded irrigated taro terraces in Futuna ». **80 000 €** over two years.

AFD. 1996. « Study for the development of the kava industry in Vanuatu ». **40 000 €**.

EU-CDE. 1996. « Pre-feasibility study to ascertain the viability of a kava processing project ». **60 000 €**.

UE-INCO-DEV. ERBIC18CT970205. 1998. « Taro : Evaluation and breeding for rainfed cropping systems in South East Asia and Oceania ». **620 000 €** over four years.

UE-INCO-DEV. ERBIC18CT980309. 1999. « Yam: Cultivar selection for disease resistance and commercial potential in Pacific Islands ». **660 000 €** over four years.

- CEFIPRA, 2005. Indo French Center for the Promotion of Advanced Research. « Genetic Improvement of Yam using DNA markers ». **20 000 €**.
- AFD-FFEM. 2005. « Preservation and utilisation of Root Crops Agrobiodiversity in Vanuatu ». **677 000 €** over five years.
- Fond Pacifique (MAE). 2007. « Study on the quality control of Kava ». **40 000 €** over two years.
- Fond Pacifique (MAE). 2009. « Genetic Diversity of Sweet Potato ». **20 000 €** over two years.
- ANR Systerra. 2010. « Végé-Culture », **765 844 €** over four years.
- UE-FSTP. 2010. « Adapting clonally propagated crops to climatic and commercial changes ». **2 999 202 €** over five years.
- Fond Pacifique (MAE). 2011. « Etude de la diversité génétique de la patate douce ». **30 000 €** over two years.
- Fond Pacifique (MAE). 2012. « Flore du Vanouatou ». **35 000 €** over two years.

Publications:

Publications in International Journals as first author (38):

- Lebot, V., Malapa, R. and M. Jung. 2013. Use of NIRS for the rapid prediction of total N, minerals, sugars and starch in tropical root and tuber crops. *New Zealand Journal of Horticultural Research*. *In press*.
- Lebot, V. and R. Malapa. 2012. Application of near infrared reflectance spectroscopy to the evaluation of yam (*Dioscorea alata*) germplasm and breeding lines. *Journal of the Science of Food and Agriculture*. DOI 10.1002/jsfa.6002.
- Lebot, V. 2012. Coping with insularity: the need for crop genetic improvement to strengthen adaptation to climatic change and food security in the Pacific". *Environment, Development and Sustainability*. DOI 10.1007/s10668-013-9445-1
- Lebot, V. 2012. Near Infrared Spectroscopy for Quality Evaluation of Root Crops: Practical Constraints, Preliminary Studies and Future Prospects. *Journal of Root Crops*. Vol. 3 (1): 1-12.
- Lebot, V., Malapa, R. and M. Bourrieau. 2011. Rapid Estimation of Taro Quality by Near Infrared Spectroscopy. *Journal of Food and Agricultural Chemistry* 59 (17) : 9327-9334.
- Lebot, V., Ndiaye, A. and R. Malapa. 2011. Phenotypic characterization of sweet potato [*Ipomoea batatas* (L.) Lam.] genotypes in relation to prediction of chemical quality constituents by NIRS equations. *Plant Breeding*, 130; 4; 457-463.
- Lebot, V., Champagne, A., R. Malapa and D. Shiley. 2009. NIR Determination of Major Constituents in Tropical Root and Tuber Crop Flours. *Journal of Agricultural and Food Chemistry*, 57: 10539–10547.
- Lebot, V. 2006. The Quality of kava consumed in the South Pacific. *Herbalgram* 71: 34-37.
- Lebot, V. 2005. Taro (*Colocasia esculenta*) Genetic Improvement: a Need for International Collaboration. *Aroideana* Vol. 28: 166-173.
- Lebot, V., Ivancic A. and K. Abraham. 2005. The geographical distribution of allelic diversity, a practical means of preserving and using minor root crops genetic resources. *Experimental Agriculture*, Vol. 41: 475-489.
- Lebot, V., Malapa R., Molisale T. and J.L. Marchand. 2005. Physico-chemical characterisation of yam (*Dioscorea alata* L.) tubers from Vanuatu. *Genetic Resources and Crop Evolution*, 53 (6) : 1199-1208.
- Lebot, V., T. Gunua, J.R. Pardales, M.S. Prana, M. Thongjiem, N.V. Viet and T.C. Yap. 2004. Characterisation of taro (*Colocasia esculenta* (L.) Schott) genetic resources in Southeast Asia and Oceania. *Genetic Resources and Crop Evolution*, 51: 381-392.
- Lebot, V., C. Herail, T. Gunua, J.R. Pardales, M.S. Prana, M. Thongjiem and N.V. Viet. 2003. Isozyme and RAPD variation in *Phytophthora colocasiae* Raciborski isolates from South East Asia and Oceania. *Plant Pathology*, 52: 303-313.
- Lebot, V. 2002. La domestication des plantes en Océanie et les contraintes de la voie asexuée. *Journal de la Société des Océanistes*, 1-2 : 114-115.
- Lebot, V., E. Johnston, Q.Y. Zheng, D. McKern and D. McKenna. 1999. Morphological, Phytochemical and Genetic Variation in Hawaiian Cultivars of 'Awa (Kava, *Piper methysticum*, Piperaceae). *Economic Botany*, 53 (4): 407-418.
- Lebot, V. 1999. Biomolecular evidence for plant domestication in Sahul. *Genetic Resources and Crop Evolution*, 46 (6): 619-628.
- Lebot, V., Trilles B., Noyer J.L. and Modesto J. 1998. Genetic relationships between *Dioscorea alata* L. cultivars. *Genetic Resources and Crop Evolution*, 45 (6): 499-509.
- Lebot, V. 1997. An Overview of Kava Production in the Pacific Islands: what we do know and what we don't know. *Journal of South Pacific Agriculture, University of the South Pacific*, 4 (1,2): 55-62.

- Lebot, V. 1997. La caractérisation et l'évaluation des plantes à racines et tubercules et des bananes plantains. *Cahiers de la Recherche Développement*, 43: 20-34.
- Lebot, V. and Lévesque J. 1997. Le kava, un remède contre le stress ? *La Recherche*, (295): 84-88.
- Lebot, V. and J. Lévesque. 1996. Evidence for Conspecificity of *Piper methysticum* Forst. f. and *P. wichmannii* C. DC. *Biochemical Systematics and Ecology*, 24 (7-8): 775-782.
- Lebot, V. 1996. L'amélioration génétique des feuillus exotiques à Madagascar. *Bois et Forêts des Tropiques*, (247): 21-36.
- Lebot, V. and Lévesque J. 1996. Genetic control of kavalactone chemotypes in *Piper methysticum* cultivars. *Phytochemistry*, 43 (2): 397-403.
- Lebot, V. and L. Ranaivoson. 1994. *Eucalyptus* Genetic Improvement in Madagascar. *Forest Ecology and Management*, 63: 135-152.
- Lebot, V., B. Meilleur, and R. M. Manshardt. 1994. Genetic diversity in Eastern Polynesian cultivated bananas. *Pacific Science*, 48 (1): 16-31.
- Lebot, V., Aradhya M., Manshardt R., Meilleur B. 1993. Genetic relationships among cultivated bananas and plantains from Asia and the Pacific. *Euphytica*, 67 (3): 163-175.
- Lebot, V. 1992. Genetic vulnerability of Oceania's traditional crops. *Experimental Agriculture*, 28 (3): 309-323.
- Lebot, V., Aradhya M., 1992. Collecting and evaluating taro (*Colocasia esculenta*) for isozyme variation. *Plant Genetic Resources Newsletter*, 90: 47-49.
- Lebot, V. and Aradhya M. 1991. Isozyme variation in taro (*Colocasia esculenta* (L.) Schott) from Asia and Oceania. *Euphytica*, 56: 55-66.
- Lebot, V., Aradhya M. and R. Manshardt. 1991. Geographical survey of genetic variation in kava (*Piper methysticum*). *Pacific Science*, 45 (2): 169-185.
- Lebot, V. 1989. Survey of the genetic resources of *Piper methysticum* Forst. f. in Oceania. *Plant Genetic Resources Newsletter*, 80: 30-32.
- Lebot, V. 1989. L'histoire du kava commence par sa découverte. *Journal de la Société des Océanistes*, 88-89 (1-2): 89-114.
- Lebot, V. 1989. Performance of potato (*Solanum tuberosum* L.) in Vanuatu. *Journal of South Pacific Agriculture, University of the South Pacific*, 13 (1): 27-40.
- Lebot, V. and J. Lévesque. 1989. The origin and distribution of kava (*Piper methysticum* Forst. f. Piperaceae): a phytochemical approach. *Allertonia*, 5 (2): 223-380.
- Lebot, V. 1988. Les performances de la pomme de terre à Vanuatu. *Agronomie Tropicale*, 43 (1): 37-46.
- Lebot, V. 1987. Performance of rice (*Oryza sativa* L.) varieties in Vanuatu. *Journal of South Pacific Agriculture, University of the South Pacific*, 12 (1): 43-49.
- Lebot, V. 1986. Evaluation of local and introduced cultivars of Sweet Potato (*Ipomoea batatas* (L.) Lam) in Vanuatu. *Journal of South Pacific Agriculture, University of the South Pacific*, 11 (3): 25-31.
- Lebot, V. 1986. Comparative performance of two hawaiian cultivars of *Carica papaya* L. in Vanuatu. *Journal of South Pacific Agriculture, University of the South Pacific*, 11 (2): 57-65.

Publications in International Journals as co-author (39):

- Abraham, K., Nemorin, A., **Lebot**, V. and G. Arnau. 2012. Meiosis and sexual fertility of autotetraploid clones of greater yam *Dioscorea alata* L. *Genetic Resources and Crop Evolution*. Sous presse.
- Singh, D. G. Jackson, D. Hunter, R. Fullerton, V. **Lebot**, M. Taylor, T. Iosefa, T. Okpul and J. Tyson. 2012. Taro Leaf Blight a Threat to Food Security. *Agriculture* 2(3), 182-203; doi:10.3390/agriculture2030182
- Roullier, C., R. Kambouo, J. Paofa, D. McKey and V. **Lebot**. 2012. On the origin of sweet potato (*Ipomoea batatas* (L.) Lam) genetic diversity in New Guinea, a secondary centre of diversity. *Heredity*. .
- Roullier, C., L. Benoit, D. McKey and V. **Lebot**. 2012. Historical collections reveal patterns of diffusion of sweet potato in Oceania obscured by modern plant movements and recombination. *PNAS, Proceedings of the National Academy of Sciences (US)*. doi/10.1073/pnas.1211049110.
- Roullier, C. A. Duputié, P. Wennekes, L. Benoit, V. Manuel, G. Rossel, D. Tay, D. McKey and V. **Lebot**. 2012. Disentangling *Ipomoea batatas* polyploidization history: consequences for the domesticated genepool. *PLoS One*. On line first.
- Teschke, R., J. Sarris and V. **Lebot**. 2012. Contaminant Hepatotoxins as Culprits for Kava Hepatotoxicity – Fact or Fiction? *Phytotherapy Research*, doi: 10.1002/ptr.4729.
- Siméoni, P. and V. Lebot. 2012. Spatial Representation of Land Use and Population Density: Integrated Layers of Data Contribute to Environmental Planning in Vanuatu. *Human Ecology*, Vol. 40 (4) :541-555
- Roullier, C, G. Rossel, D. Tay, D. McKey and V. **Lebot**. 2011. Combining chloroplast and nuclear microsatellites to investigate origin and dispersion of New World sweet potato landraces. *Molecular Ecology*, Vol. 20 (19): 3963–3977.

- Perrier, X., De Langhe, E., Donohue, M., Lentfer, C., Vrydaghs, L., Bakry, F., Carreel, F., Hippolyte, I., Horry, JP., Jenny, C. **Lebot**, V., Risterucci, AM., Tomekpe, K., Doutreleponte, H., Ball, T., Manwaring, T., de Maret, P. and T. Denham. 2011. Multidisciplinary perspectives on banana (*Musa* spp.) domestication. *PNAS, Proceedings of the National Academy of Sciences (US)*. Vol. 108 (28) 11311-11318.
- Sardos, J, Noyer JL., Malapa, R., Bouchet, S. and V. **Lebot**. 2012. Genetic diversity of taro (*Colocasia esculenta* (L.) Schott) in Vanuatu (Oceania): An appraisal of the Distribution of Allelic Diversity (DAD) with SSR markers *Genetic Resources and Crop Evolution*. Vol 59 (5): 805-820.
- Teschke, R, Qiu SX, Xuan TD, **Lebot** V. 2011. Kava and kava hepatotoxicity: requirements for novel experimental, ethnobotanical, and clinical studies based on a review of the evidence. *Phytotherapy Research*, 25 (9) : 1263-1274.
- Teschke, R, Sarris J, **Lebot** V. 2011. Kava hepatotoxicity solution: A six-point plan for new kava standardization. *Phytomedicine*; 18: 96-103
- Teschke, R, Qiu SX, **Lebot** V. 2011. Herbal hepatotoxicity by kava: update on pipermethystine, flavokavain B, and mould hepatotoxins as primarily assumed culprits. *Digestive and Liver Disease*, 43 : 676– 681.
- Teschke, R. and V. **Lebot**. 2011. Proposal for a Kava Quality Standard Code. *Chemical Research in Toxicology. Invited review*. 49 : 2503–2516.
- Champagne, A. Bernillon, S., Moing, A., Rolin, D., Legendre, L. and V. **Lebot**. 2011. Diversity of anthocyanins and other phenolic compounds among tropical root crops from Vanuatu, South Pacific. *Journal of Food Composition and Analysis*. 315–325.
- Champagne, A. Bernillon, S., Moing, A. Rolin, D., Legendre, L. and V. **Lebot**. 2010. Carotenoid profiling of tropical root crop chemotypes from Vanuatu, South Pacific. *Journal of Food Composition and Analysis* 23 : 763–771.
- Camus, P. and V. **Lebot**. 2010. On-farm assessment of clonal introduction of root crops diversity in Vanuatu, Melanesia. *Experimental Agriculture*, 46 (4): 541–559.
- Champagne, A., Legendre, L., Malapa, R. and V. **Lebot**, 2009. Chemotype profiling to guide breeders and explore traditional selection of root crops in Vanuatu, South Pacific. *Journal of Agricultural and Food Chemistry*. 57: 10363-10370.
- Ivancic, A., Rounsard O., Quero-García J., Sisko M., Urbanek Krajnc A., and **Lebot**, V. 2009. Topology of thermogenic tissues of *Alocasia macrorrhizos* (Araceae) inflorescences. *Botany* 87: 1232-1241.
- Quero-García, J., Letourmy, P., Ivancic, A., Feldman, P., Courtois, B., Noyer, J.L., and V. **Lebot**. 2009. Hybrid performance in taro (*Colocasia esculenta*) in relation to genetic dissimilarity of parents. *Theoretical and Applied Genetics* 119 :213-221.
- Sardos, J., Rodier-Goud, M., Dambier, D., Malapa, R., Noyer, J.L. and **Lebot**, V. 2009. Evidence for spontaneous polyploidization in cassava *Manihot esculenta* Crantz. *Plant Systematics and Evolution*. Vol. 283 (3-4): 203-209.
- Sardos, J., Malapa, R., McKey, D., Noyer, J.L., Duval, M.F. and V. **Lebot**. 2008. Genetic diversity of cassava (*Manihot esculenta* Crantz) introduced in the oceanic islands of Vanuatu, Melanesia, South Pacific. *Genome* 51: 912–921.
- Lasme, P., Davrieux, F., Montet, D. and V. **Lebot**. 2008. Quantification of kavalactones and determination of kava (*Piper methysticum*) chemotypes using Near-Infrared Reflectance Spectroscopy for quality control in Vanuatu. *Journal of Agriculture and Food Chemistry*. 56, 4976–4981.
- Quero-García J., Ivancic A., **Lebot** V., 2008. Morphological variation and reproductive characteristics of wild giant taro (*Alocasia macrorrhizos*, Araceae) populations in Vanuatu. *New Zealand Journal of Botany* 46 (2): 189-203.
- Ivancic, A., Rounsard O., Quero-García J., Melteras M., Molisale T., Tara S. and V. **Lebot** (2008) Flowering biology and thermogenesis of *Colocasia gigantea* (Blume) Hook. f., Araceae. *Journal of Plant Research* 121: 73-82.
- Melteras, M.V., **Lebot**, V. Asher, C.J. and J.N. O’Sullivan. Crop development and root distribution in lesser yam (*Dioscorea esculenta*): implications for fertilization. *Experimental Agriculture* 44: 209-221.
- Applequist, W.L. and V. **Lebot**. 2006. Validation of *Piper methysticum* var. *wichmannii* (Piperaceae). *Novon* 16: 3-4.
- Quero-García, J., Ivancic A., Letourmy P., Feldmann P., Molisale T., **Lebot** V., 2006. Heritability of the main agronomic traits of taro. *Crop Science* 46: 2368-2375.
- Quero-García, J., Courtois B., Ivancic A., Letourmy P., Risterucci A.M., Noyer J.L., Feldmann P., **Lebot** V., 2006. First genetic maps and QTL studies of yield traits of taro (*Colocasia esculenta* (L.) Schott). *Euphytica* 151: 187-199.
- Caillon, S., Quero-García J., Lescure J.P., **Lebot** V., 2006. Nature of taro (*Colocasia esculenta* (L.) Schott) genetic diversity prevalent in a Pacific Ocean island, Vanua Lava, Vanuatu. *Genetic Resources and Crop Evolution* 53: 1273-1289.
- Ivancic, A., Rounsard, O., Quero-García J., **Lebot** V., Pochyla V., Okpul T., 2005. Thermogenic flowering of the giant taro (*Alocasia macrorrhizos*, Araceae). *Canadian Journal of Botany* 83: 647-665.

- Ivancic, A., **Lebot** V., Rounsard O., Quero-García J., Okpul T., 2004. Thermogenic flowering of taro (*Colocasia esculenta* (L.) Schott, *Araceae*). *Canadian Journal of Botany* 82: 1557-1565.
- Malapa, R., Arnau, G., Noyer, J.L. and **Lebot**, V. (2005a) Genetic diversity of the greater yam (*Dioscorea alata* L.) and relatedness to *D. nummularia* Lam. and *D. transversa* Br. as revealed with AFLP markers. *Genetic Resources and Crop Evolution* 52 (7): 919-929.
- Ivancic, A., Quero-García J., **Lebot** V., 2004. Genetically controlled branching forms of taro (*Colocasia esculenta*). *New Zealand Journal of Crop and Horticultural Science* 32: 167-177.
- Ivancic, A., Quero Garcia J. and V. **Lebot**. 2003. Development of visual tools for selecting qualitative corm characteristics of taro (*Colocasia esculenta* (L.) Schott). *Australian Journal of Agricultural Research* 54 (6) 581-588.
- Quero-García, J., Noyer J.L., Perrier X., Marchand J.L., **Lebot** V., 2004. A germplasm stratification of taro (*Colocasia esculenta*) based on agro-morphological descriptors, validation by AFLP markers. *Euphytica* 137: 387-395.
- Kreike, C.M., van Eck, H.J. and **Lebot**, V. 2004 Genetic diversity of taro, *Colocasia esculenta* (L.) Schott, in Southeast Asia and the Pacific. *Theoretical and Applied Genetics* 109, 761-768.
- Siméoni, P. and V. **Lebot**. 2002. Identification of factors determining kavalactones content and chemotype in kava (*Piper methysticum* Forst. f.). *Biochemical Systematics and Ecology*, 30: 413-424.
- Ivancic, A. and **Lebot** V., 1999. Botany and genetics of New Caledonian wild taro, *Colocasia esculenta*. *Pacific Science*, 53 (3): 273-285.

Books, as first author (5):

- Lebot, V. 2009. *The Tropical Root and Tuber Crops: cassava, sweet potato, yams and aroids*. CABI Crop Production Science in Horticulture, CABI Publishing, Cambridge, UK. 420 p.
- Lebot, V., Merlin M. and L. Lindstrom. 1997. *Kava: The Pacific Elixir*. Healing Arts Press, Rochester, Vermont, 255 pages (réed., 5000 ex).
- Lebot, V., Merlin M. and L. Lindstrom. 1992. *Kava: the Pacific Drug*. Yale University Press, Psychoactive Plants of the World series, 260 pages. (1000 ex., épuisé).
- Lebot, V., et P. Cabalion. 1986. *Les Kavas de Vanuatu* (cultivars de *Piper methysticum* Forst. f.). Collection Travaux & Documents de l'ORSTOM no 205. Paris, 240 pages. (500 ex., épuisé).
- Lebot, V. and P. Cabalion. 1988. *The Kavas of Vanuatu* (traduction). South Pacific Commisison Technical Paper no. 195, 191 pages, Nouméa, Nouvelle Calédonie (500 ex., épuisé).

Books as co-author (4):

- Walter, and V. **Lebot**. 2007. Gardens of Oceania. ACIAR Monograph No. 122. Canberra, Australia, 326p. (réed.).
- Walter, A. and V. **Lebot**. 2003. *Jardins d'Océanie, Les Plantes Alimentaires du Vanuatu*. Collection 'Didactiques', Presses de l'IRD, 320p (1000 ex).
- Ivancic, A. and **Lebot** V. 2000. *Taro (Colocasia esculenta): Genetics and Breeding*. Collection "Repères", CIRAD, Montpellier 194 pages (500 ex).
- Ivancic, A. and **Lebot** V. 1999. *Descriptors for Taro (Colocasia esculenta)*. International Pant Genetic Resources Institute, Rome, Italy. 56 pages (1000 ex).

Other publications, Books chapters (27):

- Champagne A, L. Legendre and V. **Lebot**. 2012. Biofortification of taro (*Colocasia esculenta*) through breeding for increased contents in carotenoids and anthocyanins. In Proceedings of the Global Conference on Aroids, Bhubaneswar, Orissa, India.
- Lebot, V. 2012. NIRS (Near Infrared Reflectance Spectroscopy) Potential for Breeding Aroids. In Proceedings of the Global Conference on Aroids, Bhubaneswar, Orissa, India.
- Muller, S., **Lebot**, V., A. Walter. 2011. Food garden biodiversity in Vanuatu. Pp.: 508-514, In Bouchet, Le Guyader & Pascal (eds). *The Natural History of Santo*. Muséum national d'Histoire naturelle, Paris; IRD, Marseille, Pro-Natura International, Paris, 572p.
- Quero Garcia, J., Ivancic, A. and V. **Lebot**. 2011. Taro, Chapter 5. In Bradshaw, J.E. (ed.) *Root and Tuber Crops*. Handbook of Plant Breeding. Springer, NY., 295p.
- Lebot, V., S. Hartati, N.T. Hue, N.V. Viet, N.H. Nghia, T. Okpul, J. Pardales, M.S. Prana, T.K. Prana, M. Thongjiem, C. M. Krieke, H. VanEck, T.C. Yap and A. Ivancic. 2010. Characterizing taro using isozymes and morpho-agronomic descriptors. Pp.: 39-55. In: R. Rao V., Matthews P.J., Eyzaguirre P.B., Hunter D. (eds.) *The Global Diversity of Taro: Ethnobotany and Conservation*. Bioversity International, Rome, Italy.
- Lebot, V. 2010. Sweet Potato, Chapter 3. In Bradshaw, J.E. (ed.) *Root and Tuber Crops*. Handbook of Plant Breeding. Springer, NY., 295p.

- Lebot, V. 2010. Tropical Root and Tuber Crops. EOLSS. UNESCO On Line Encyclopedia of Life Support Systems. EOLSS Publishers Co. Ltd. 58 St. Aldates Oxford, UK.
- Lebot, V., Walter, A. and Sam, C. 2007. The domestication of fruit and nut tree species in Vanuatu. Pp.: 120-136 In *Indigenous Fruit Trees in the Tropics: domestication, utilization and commercialisation*. Akinnifesi et al., (eds) CABI Publishing, Oxfordshire, UK., 438p.
- Lebot, V., A. Ivancic and J. Quero-García 2006. Comparative performance of local and introduced cultivars of taro (*Colocasia esculenta* (L.) Schott) in Vanuatu. ISTRC Symposium, CTCRI, Trivandrum, Inde, 20-25 nov. 06.
- Quero-Garcia, J., J.L. Noyer, A. Weber, X. Perrier, D. McKey and V. **Lebot**. 2006. Recombination and clonality in taro (*Colocasia esculenta* (L.) Schott): implications for the evolution of cultivar diversity. ISTRC Symposium, CTCRI, Trivandrum, Inde, 20-25 nov. 06.
- Sardos, J., R. Malapa, D. McKey, J.L. Noyer et V. **Lebot**, 2006. Genetic diversity of cassava (*Manihot esculenta* Crantz) introduced in the oceanic islands of Vanuatu, Melanesia. ISTRC Symposium, CTCRI, Trivandrum, Inde, 20-25 nov. 06.
- Noyer, J.L., Billot, C., Weber, P., Brottier, P., Quero-Garcia, J., and **Lebot**, V. 2004. Genetic diversity of taro (*Colocasia esculenta* (L.) Schott) assessed by SSR markers. In: Guarino, L., Taylor, M. and Osborn, T. (eds) Third Taro Symposium. 21-23 May 2003, Secretariat of the Pacific Community: Fiji. pp. 174-180.
- Lebot, V., J. Quero Garcia and A. Ivancic. 2003. Networking with taro, the lessons learnt from TANSAO. In: Guarino, L., Taylor, M. and Osborn, T. (eds) Third Taro Symposium. 21-23 May 2003, Secretariat of the Pacific Community: Fiji. pp. 52-57.
- Lebot, V. & P. Siméoni. 2004. Is the quality of kava (*Piper methysticum* Forst. f.) responsible for different geographical patterns? *Building Bridges with Traditional Knowledge*. University of Hawaii Press, Honolulu, Hawaii, USA. *Ethnobotany Research and Applications* 2:19-28. <http://www.botany.hawaii.edu/traditionalknowledge/BBTprof519.pdf>
- Malapa, R., Noyer J.L., Marchand, J.L. and **Lebot**. 2005b. Genetic relationship between *D. alata* and *D. nummularia* as revealed by AFLP. In: Motley, T.J., Zerega, N., and Cross, H. (eds) Darwin's Harvest. Columbia University Press, New York, 390p. pp. 239-265.
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2. Supervision of Graduate Students:

2.1. Direction of PhD candidates (7):

- Laurent Soulard.** 2012-2015. « Détermination des QTL impliqués dans l'élaboration de la qualité du corme chez le taro (*Colocasia esculenta*) ». ED SIBAGHE Montpellier.
- Henri Vandenbroucke.** 2011-2014. « Rôle de la voie asexuée dans la création de variabilité au sein des plantes à multiplication végétative ». ED SIBAGHE, Université de Montpellier II.
- Caroline Roullier.** 2008-2012. « Diversité génétique de la patate douce en Océanie et détermination des sources d'introductions ». Université de Montpellier II. Soutenance prévue le 17 Déc. 2012. ED SIBAGHE Montpellier.
- Antoine Champagne.** Janvier 2009. « Diversité chimique et biofortification des plantes à racines et tubercules tropicales cultivées : Caractérisation des parents et élaboration de protocoles permettant l'optimisation de la sélection. » 212 pages. St-Etienne Université Jean Monnet. Sciences, Ingénierie et Santé.
- Julie Sardos.** Décembre 2008. « Conditions du maintien de la biodiversité des plantes à racines et tubercules cultivés au Vanouatou : diversités spécifiques et variétales et gestion de ces diversités ». 119 pages. ED SIBAGHE Montpellier SupAgro, Centre International d'Etudes Supérieures en Sciences Agronomiques.
- Roger Malapa.** 2001-2004. « Organisation de la diversité génétique de *Dioscorea alata* (L.) : concordances entre les variabilités moléculaire, morpho-agronomique et les niveaux de ploïdie; utilisation pour la sélection et l'amélioration. » Université de Rennes.
- José Quero Garcia.** 2001-2004. « Variabilité et héritabilité des caractères déterminants la qualité du taro (*Colocasia esculenta* (L.) Schott). » ENSAM Montpellier.

2.2. Co-direction of PhDs (9):

- Andrej Mergudus.** 2011-2014. "Chemical variation of major compounds and secondary metabolites in corms of taro (*Colocasia esculenta*): genetic, physiological and environmental factors." Université de Maribor, Slovénie
- Ismael Munoz.** 2012-2015. "Contrôle métabolique et maîtrise de la qualité du taro, *Colocasia esculenta* (L.) Schott." Université de Lyon.
- Sara Muller.** Septembre 2010. « Stratégies et déterminants de la gestion des plantes à racines et tubercules cultivés au Vanuatu. » Université de Strasbourg.
- Sophie Caillon.** 2001-2005. « Gestion locale et conservation *in situ*: cas du cocotier et du taro au Vanuatu, Pacifique Sud. » Université d'Orléans.
- Patricia Siméoni.** 1998-2003. « Buveurs de kava : géographie des facteurs déterminants la qualité ». Université de Paris-Sorbonne.
- Béatrice Lebas.** 1999-2002. « Diversity of viruses infecting *Dioscorea* species in the South Pacific ». Université de Greenwich, Grande Bretagne.
- Lolona Ranaivoson.** 1989-1993. « L'amélioration génétique de l'*Eucalyptus robusta* à Madagascar. » Thèse de Doctorat de l'Université d'Antananarivo, Madagascar.
- Mallikarjuna Aradhya.** 1988-1992. « Genecology of Hawaiian *Metrosideros* (*Myrtaceae*). » Ph.D. dissertation, Department of Botany, University of Hawaii, USA.
- Diane Ragone.** 1987-1991. « Variability of Breadfruit (*Artocarpus altilis*) in the Pacific Islands. » Ph.D. dissertation, Department of Horticulture, University of Hawaii, USA.

2.2. Masters (10) :

- André Ndiaye.** 2010. Application de la SPIR au contrôle de la qualité de la patate douce (*Ipomoea batatas*) au Vanouatou. Mémoire de Mastère, Sciences et Technologies, Bordeaux 1, 75p.
- Bastien Barral.** 2009. Caractérisation de la variabilité morpho-agronomique et des teneurs en acide 3,5-dicaféoylquinique des géotypes de patate douce (*Ipomoea batatas*). Mémoire de Mastère 2, Université d'Avignon, 33 p. + ann.
- Vanesse Labeyrie.** Septembre 2009. Evaluation d'une pratique innovante : l'utilisation et la production de graines de plantes à racines et tubercules pour la distribution et la création de diversité allélique. Mémoire de fin d'études présenté pour l'obtention du Diplôme d'ingénieur Agronome. SupAgro, Montpellier, Spécialisation : Production Végétale Durable. 90p.

- Yaya Silué.** 2008. Mise au point d'un système de contrôle de la qualité du kava au Vanouatou. ENSIA-SIARC de Montpellier, 63p + ann.
- Privat Lasme.** 2007. Développement d'un outil analytique de contrôle de la qualité du kava : analyses des kavalactones par spectrométrie proche infrarouge. ENSIA SIARC de Montpellier, 106p.
- Marie Melteras.** 2002-2004. Diagnosis and correction of nutritional disorders of yams in Vanuatu. MSc Plant Sciences. University of Brisbane, Queensland, Australie.
- José Quero Garcia.** 2000. Etude de la structuration de la variabilité génétique du Taro (*Colocasia esculenta*). DEA de l'INA-PG, Paris.
- Roger Malapa.** 2000. Evaluation de la diversité génétique de la grande igname (*Dioscorea alata*) par AFLP. DEA de l'Université de Rennes.
- Marion Bourrieau.** 2000. Valorisation des racines et tubercules tropicaux pour l'alimentation humaine en Océanie: le cas du lap-lap au Vanuatu. Thèse de Mastère de l'ENSIA-SIARC, Montpellier.
- Valérie Tortel.** 1998. Etude des systèmes agraires de Fanafo, Santo, Vanuatu. Mémoire de DESS, INA-PG-IEDES Paris.
- Henri Rakotondraoelina.** 1994. Analyse d'un test de descendance de *Pinus patula* à Ampamaherna, Madagascar. Mémoire de DEA de l'Université d'Antananarivo. Madagascar.

2.3. BSc, engineers reports and others (16):

- Mathilde Jung.** 2012. Méthode de quantification des exportations des parcelles de systèmes de culture complexes en zone tropicale humide. Mémoire de fin d'études ISTOM, Cergy Pontoise, France-ANR Végéculture. Mathilde Jung (ISTOM), Avril-Septembre 2012.
- Aparna Mani.** 2012. Vanuatu Women's Relationship with Food Security, Bio-diversity and Food Policy. Avril-Septembre 2012. Stage de Mastère Université de Yale, Connecticut, EU.
- Hugo Lehoux et Marie Torbay.** 2012. Caractérisation de familles de plein-frères de taro et analyse de la variance. Septembre-Décembre. Stage de césure supAgro Montpellier.
- Julien Blanco.** 2011. Mise au point d'un indice pour l'analyse spatio-temporelle de l'agrobiodiversité. Cas de l'agriculture itinérante au Vanouatou, AgroParisTech-IRD-ANR « Végéculture », 73 p.
- Fabien Cormier.** 2010. Mise en place d'une collection *ex situ* de bananiers et plantains (*Musa spp.*) au Vanouatou : catalogue des accessions. Stage d'année de césure de SupAgro Montpellier-Global Diversity Trust-SPC. 363p.
- Marine Bruerre.** 2010. Mise en place d'une collection *ex situ* de choux des îles (*Abelmoschus manihot*) au Vanouatou : catalogue des accessions. Stage d'année de césure de SupAgro Montpellier-Global Diversity Trust-SPC. 485p.
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- Anaïs Morin.** 2006. Evaluation des dynamiques de l'agrobiodiversité dans trois systèmes agroforestiers de Malo au Vanouatou. Rapport de stage de Mastère 1^{ère} année ENSAM, Montpellier, 63p.
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- Tony Supe Sérémélé.** 2002. Analyse des Systèmes de culture "racines et tubercules": pratiques et stratégies paysannes dans la conduite des cultures et la mise en marché des produits (Efaté, Vanuatu). Mémoire du CNEARC, Montpellier.
- Matthew Grant Allen.** 2001. Change and continuity: land use and agriculture on Malo island, Vanuatu. Msc Sciences, The Australian University, Canberra. 201p.
- Ferdinand Strobel.** 1998. Etude pluridisciplinaire d'un système agraire en transition (Wusiroro), Ile d'Esprit Santo, Archipel du Vanouatou. Mémoire de fin d'études ISTOM, Cergy Pontoise, France. 127p + annexes.
- Jean Christophe Claus.** 1997. Etude des tarodières irriguées de Futuna. Mémoire de fin d'études d'ingénieur d'agronomie tropicale, CNREARC/ESAT Montpellier, France.
- Sylvie Carsuzaa.** 1994. Etude des performances d'*Acacia spp.* australiens introduits à Madagascar. Mémoire de fin d'études ISTOM, Cergy Pontoise, France.