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Collaboratrice scientifique dans le groupe de mycologie (Protection des Végétaux) à Agroscope Changins-Wädenswil ACW.

Collaboratrice scientifique (2002-2005) à l'université de Duke (NC, USA) dans les laboratoires de Rytas Vilgalys et de François Lutzoni (Systématique des Lyophylleae et des Entolomataceae et projet 'Assembling the Fungal Tree of Life').

PhD (2002) en mycologie à l'université de Lausanne (CH).

Intérêts de recherche :

Communauté fongique associée à la vigne (pathogènes et endophytes du bois), maladies fongiques du bois de vigne (ESCA, maladie de Petri).

Ecologie et systématique moléculaire des champignons associés à la vigne.

Diagnostic fongique par détection moléculaire.

Systématique moléculaire et barcode des champignons.

Subsides de recherche obtenus :

Fonds National Suisse pour la Recherche (FNS) pour jeune chercheur (2002-2003)

Liste de publications.

Buyck, B., Cruaud, C., Couloux, A., Hofstetter, V. 2011 – *Cantharellus texensis* sp. nov. from Texas (USA), a southern twin of *C. cinnabarinus* revealed by *tef-1* sequence data. *Mycologia* (in press).

Schmull, M., Miadlikowska, J., Pelzer, M., Stocker-Wörgötter, E., Hofstetter, V., Fraker, E., Hodkinson, B. P., Reeb, V., Kukwa, M., Lumbsch H. T., Kauff, F., and Lutzoni, F. 2011. Phylogenetic affiliations of members of the heterogeneous lichen-forming fungi of the genus *Lecidea* sensu Zahlbruckner (Lecanoromycetes, Ascomycota) *Mycologia* (in press).

Rey, P., Lecomte, P., Guérin-Dubrana, L., Coriot-Costet, M.-F., Fontaine, F., Gomes, E., Goutouly, J.-P., Hofstetter, V., Legorburu, X. et de La Roque, B. 2011. Maladies du bois de la vigne : situation, enjeux et perspective. *Phytoma* 22 : 22-26.

- Buyck, B. & Hofstetter V., 2011 – The contribution of *tef-1* sequences to species delimitation in the *Cantharellus cibarius* complex in the southeastern United States. *Fungal Diversity* 49(1):35-46.
- Buyck, B., Hofstetter, V., Verbeken A. & Walley, R., 2010 – Proposal to conserve the name *Lactarius* (Basidiomycota) with a conserved type and to conserve *Lactariopsis* (Basidiomycota) against *Lactifluus* and *Galorrheus*. *Taxon* 59(1):1-12.
- Buyck, B., Hofstetter, V., Verbeken A. & W Walley R., 2010. Nomenclature, formal reports, proposals and opinion. Proposal to conserve the name *Lactarius* (Basidiomycota) with a conserved type and to conserve *Lactariopsis* (Basidiomycota) against *Lactifluus* and *Galorrheus*. *Mycotaxon* 111: 501-520
- Buyck, B., Lewis D., Eyssartier G. & Hofstetter, V., 2010 . *Cantharellus quercophilus* sp.nov. from post oak woodland in Texas with notes on other yellow brown small chanterelles in the southern USA. *Cryptogamie-Mycologie* 31(1): 17-33.
- Casieri, L., Hofstetter, V., Viret, O., Gindro, K. 2009. Fungal communities associated with the wood of different cultivars of young *Vitis vinifera* plants. *Phytopathologia Mediterranea* 48(1):73-83.
- Hofstetter, V., Casieri, L., Viret, O., Gindro, K., 2009. Esca de la vigne et communauté fongique. *Revue suisse Vitic. Arboric. Hortic.* Vol. 41 (4): 247-253.
- Casieri, L., Hofstetter, V., Viret, O., Gindro, K., 2009. Effet du traitement à l'eau chaude sur les champignons associés aux jeunes plants de vigne. *Revue suisse Vitic. Arboric. Hortic.* Vol. 41 (4) : 219-224.
- Arnold, A.E., Miadlikowska, J., Higgins, K.L., Sarvate, S.D., Gugger, P., Way A., Hofstetter, V., Kauff, F., Lutzoni, F. 2009. A phylogenetic estimation of trophic transition networks for ascomycetous fungi : Are lichens cradles of symbiotrophic fungal diversification. *Systematic Biology*, 58(3):283-297.
- Buyck, B., Hofstetter, V., Verbeken, A. and Walley, R., 2009. Proposal to conserve the name *Lactarius* (Basidiomycota) and its homotypic synonyms with a conserved type. *Taxon* 58(2).
- Schoch, C.L., Sung, G.-H., López-Giráldez, F., Townsend, J.P., Miadlikowska, J., Hofstetter, V., Robertse, B., Matheny, P.B., Kauff, F., Wang, Z., Gueidan, C., Andrie, R.M., Trippe, K., Ciuffetti, L.M., Wynns, A., Fraker, E., Hodkinson, B.P., Bonito, G., Yahr, R., Groenewald, J.Z., Arzanlou, M., de Hoog, G.S., Crous, P.W., Hewitt, D., Pfister, D.H., Peterson, K., Gryzenhout, M., Wingfield, M. J., Aptroot, A., Suh, S.-O., Blackwell, M., Hillis, D.M., Griffith, G.W., Castlebury, L.A., Rossman, A.Y., Lumbsch, H.T., Lücking, R., Büdel, B., Rauhut, A., Diederich, P., Ertz, D., Geiser, D.M., Hosaka, K., Inderbitzin, P., Kohlmeyer, J., Volkman-Kohlmeyer, B., Mostert, L., O'Donnell, K., Sipman, H., Rogers, J.D., Shoemaker, R.A., Sugiyama, J., Summerbell, R.C., Untereiner, W., Johnston, P., Stenroos, S., Zuccaro, A., Dyer, P., Crittenden, P., Cole, M.S., Hansen, K., Trappe, J. M., Lutzoni, F. and Spatafora, J.W.. 2009. The Ascomycota Tree of Life: A Phylum Wide Phylogeny Clarifies the Origin and Evolution of Fundamental Reproductive and Ecological Traits. *Systematic Biology*, 58(2):224-239.
- Ertz, D., Miadlikowska, J., Lutzoni, F., Dessein, S., Raspé, O., Vigneron, N., Hofstetter, V., Diederich, P., 2008. Towards a new classification of the Arthoniales (Ascomycota) based on a threegene phylogeny focussing on the genus *Opegrapha*. *Mycological Research*, 113: 141-152.
- Buyck, B., Hofstetter, V.*, Eberhardt, U.*, Verbeken, A., and Kauff, F.*, 2008. Walking the thin line between *Russula* and *Lactarius*: the dilemma of *Russula* subsect. *Ochricompactae*. *Fungal Diversity* 28:15-40. (*equal contribution)
- Baroni, T.J., Franco-Molano, A.E., Lodge, D.J., Czederpiltz, D.L.L., Horak, E., Hofstetter, V., 2007. *Arthromyces* and *Blastosporella* two new genera of conidia producing lyophylloid agarics (Agaricales, Basidiomycota) from the Neotropics. *Mycological Research* 111(5):572-580.
- Hofstetter, V., Miadlikowska, J., Kauff, F., and Lutzoni, F., 2007. Phylogenetic comparison of protein-coding versus ribosomal RNA-coding sequence data: A case study of the *Lecanoromycetes* (Ascomycota). *Molecular Phylogenetics and Evolution* 44(1): 412-426.
- Matheny, P.B., Wang, Z., Binder, M., Curtis, J. M., Lim, Y.W., Nilsson, R. H., Hughes, K.W.,

- Petersen, R.H., Hofstetter, V., Ammirati, J. F., Schoch, C., Langer, G. E., McLaughlin, D. J., Wilson, A.W., Crane, P.E., Frøslev, T., Ge1, Z-W., Kerrigan, R. W., Slot, J.C., Vellinga, E.C., Yang, Z-L, Aime, M.C., Baroni, T.J., Fischer, M., Hosaka, K., Matsuura, K., Seidl, M.T., Vauras, J., and Hibbett, D.S., 2007. Contributions of *rpb2* and *tef1* to the phylogeny of mushrooms and allies (Basidiomycota, Fungi). *Molecular Phylogenetics and Evolution* 43(2):430-451
- Geiser, D.M., Gueidan, C., Miadlikowska, J., Lutzoni, F., Kauff, F., Hofstetter, V., Fraker, E., Schoch, C., Tibell, L., Untereiner, W.A., Aptroot, A., 2006. Eurotiomycetes: Eurotiomycetidae and Chaetothyriomycetidae. *Mycologia* 98:1055-1066.
- James, T.Y., Kauff, F., *Schoch, C., *Matheny, P.B., *Hofstetter, V., Cox, C.J., Celio, G., Gueidan, C., Fraker, E., Miadlikowska, J., Lumbsh, T., Rauhut, A., Reeb, V., Arnold, A.E., Amtoft, A., Stajich, J.E., Hosaka, K., Sung, G-H., Johnson, D., O'Rourke, B., Binder, M., Curtis, J.M., Slot, J.C., Wang, Z., Wilson, A.W., Schüßler, A., Longcore, J.E., O'Donnell, K., Mozley-Standridge, S., Porter, D., Letcher, P.M., Powell, M.J., Taylor, J.W., White, M.M., Griffith, G.W., Davies, D.R., Sugiyama, J., Rossman, A.Y., Rogers, J.D., Pfister, D.H., Hewitt, D., Hansen, K., Hambleton, S., Shoemaker, R.A., Kohlmeyer, J., Volkman-Kohlmeyer, B., Spotts, R.A., Serdani, M., Crous, P.W., Hughes, K.W., Matsuura, K., Langer, E., Langer, G., Untereiner, W.A., Lücking, R., Büdel, B., Geiser, D.M., Aptroot, A., Buck, W.R., Cole, M.S., Diederich, P., Hillis, D.M., Printzen, C., Schmitt, I., Schultz, M., Yahr, R., Zavarzin, A., Hibbett, D.S., Lutzoni, F., McLaughlin, D.J., Spatafora, J.W., Vilgalys, R., 2006. Reconstructing the early evolution of the fungi using a six-gene phylogeny. *Nature*, 443: 818-822. (*equal contribution)
- Matheny, P.B., Curtis, J.M, Hofstetter, V., Aime, M.C., Moncalvo, J-M., Ge, Z-W, Yang, Z-L, Slot, J.C., Binder, M., Ammirati, J.F., Baroni, T.J., Bougher, N,L, Wang, Z., Hughes, K.W., Lodge, D.J., Kerrigan, R.W., Seidl, M.T., Aanen, D.K., DeNitis, M., Daniele, D.M., Desjardins, D.E., Kropp, B.R., McLaughlin, D.J, Padamse, M., Norvell, L.L., Parker, A., Vellinga, E.c., Vilgalys, R., and Hibbett, D.S., 2006. Major clades of Agaricales: a multilocus phylogenetic overview. *Mycologia* 98(6), 982-995.
- Miadlikowska, J.*Kauff, F., *Hofstetter, V., *Fraker, E., Grube, M., Hafellner, J., Reeb, V., Hodkinson, B.P., Kukwa, M., Lücking, R., Hestmark, G., Ojalora, M.A.G., Rauhut, A., Büdel, B., Scheidegger, C., Timdal, I., Stenroos, S., Brodo, I., Perlmutter, G., Ertz, D., Diederich, P., Lendemer, J.C., Schoch, C., Tripp, E., Yahr, R., May, P., Gueidan, C., Arnold, A.E., Robertson, C. and Lutzoni, F., 2006. New insights into classification and evolution of the Lecanoromycetes (Pezizomycotina, Ascomycota) from phylogenetic analyses of three ribosomal RNA- and two protein-coding genes. *Mycologia* 98:1090-1103. (*equal contribution)
- Redhead, S. A., Hofstetter, V., Cléménçon, H., Moncalvo, J-M., and Vilgays, R., 2006. Proposal to conserve a new type for *Lyophyllum* P. Karst. (Fungi, Basidiomycota, Agaricales). *Taxon* 54 (4), 1034-1036.
- Spatafora, J.W., Sung, G-H., Johnson, D., O'Rourke, B., Serdani, M., Spotts, R., Lutzoni, F., Hofstetter, V., Miadlikowska, J., Reeb, V., Gueidan, C., Fraker, E., Lumbsch, T., Lücking, R., Schmitt, I., Hosaka, K., Aptroot, A., Roux, C., Miller, A., Geiser, D., Hafellner, J., Hestmark, G., Arnold, A.E., Büdel, B., Rauhut, A., Untereiner, W.A., Cole, M.S., Scheidegger, C., Schultz, M., Sipman, H., Schoch, C., 2006. A five-gene phylogeny of Pezizomycotina. *Mycologia* 98:1020-1030.
- Lutzoni, F., Kauff, F., Cox, C.J., McLaughlin, D., Celio, G., Dentinger, B., Padamsee, M., Hibbett, D.S, James, T.Y., Baloch, E., Grube, M., Reeb, V., Hofstetter, V., Schoch, C., Arnold, A.E., Miadlikowska, J., Spatafora, J., Johnson, D., Hambleton, S., Crockett, M., Shoemaker, R., Sung, G.-H., Lücking, R., Lumbsch, T., O'Donnell, K., Binder, M., Diederich, P., Ertz, D., Gueidan, C., Hansen, K., Harris, R.C., Hosaka, K., Lim, Y-W., Matheny, B., Nishida, H., Pfister, D., Rogers, J., Rossman, A., Schmitt, I., Sipman, H., Stone, J., Sugiyama, J., Yahr, R., Vilgalys, R., 2004. Assembling the fungal tree of life, progress, classification, and evolution of subcellular traits. *American Journal of Botany*. 91, 1446–1480.
- Hofstetter, V., Cléménçon, H., Vilgalys, R., Moncalvo, J.M., 2002. Phylogenetic analyses of the Lyophylleae (Agaricales, Basidiomycota) based on nuclear and mitochondrial rDNA sequences. *Mycological Research*. 106, 1043–1059.

Moncalvo, J-M., Vilgalys, R., Redhead, S.A., Johnson, J.E., James, T.Y., Aime, M.C., Hofstetter, V., Verduin, S., Larssen, E., Baroni, T.J., Thorn, R.G., Jacobsson, S., Clémenton, H., and Miller, O.K., 2002. One hundred and seventeen clades of euagarics. *Molecular Phylogenetics and Evolution* 23, 357-400.