

Curriculum vitae of Prof. Hugues BAÏMEY

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Recent employment history (last 10 years)

- 2009-present – Lecturer, Full Professor in Nematology, University of Parakou (UP), Benin
- 2020-2021 – Principal Investigator of PEER 8-211 project funded by the USAID
- 2015-2019 – Principal Investigator of ID IPP1131407 Project funded by the Bill & Melinda Gates Foundation
- 2013-2017 – Director, Higher National School of Agricultural Sciences and Techniques of Djougou, UP, Benin
- 2015-2016 – Director SCOPA Project funded by DANIDA, UP, Benin
- 2012-2016 – Director NICHE/BEN/172 Project funded by NUFFIC, UP, Benin
- 2012-2014 – Research consultant, Nematology, GERES NGO, Bohicon, Benin
- 2012-2014 – Nematologist on MENERGEP Project funded by the GRiSP, UP, Benin
- 2011-2013 – Nematologist on AFCAPES2010-01 project funded by AGROPOLIS-FONDATION-CAPEs
- 2010-2014 – Principal Investigator, ESCiP Project funded by the VLIR-UOS
- 2010-2014 – BEST (Bourse d’Echanges Scientifiques et Technologiques) fellow, Institut de Recherches pour le Développement, Montpellier, France and Hanoi, Vietnam
- 2009-2011 – Research Consultant, Biotechnology unit, AfricaRice, Cotonou, Benin
- 2008-2010 – Principal Investigator, FC N°PRN14/2008 Project funded by the National Agricultural Research Institute of Benin (INRAB), Benin
- 2010 – Research consultant in Oxfam Quebec NGO, Nematology, Cotonou, Benin

Education

- 2002 – 2006: PhD in nematology, University of Pretoria, South Africa
- 1999 – 2000: MSc in nematology, University of Ghent, Belgium
- 1993 – 1994: MSc in Plant breeding, Agricultural State-Controlled University of Kuban, Russia
- 1988 – 1993: BSc in Plant breeding, Agricultural State-Controlled University of Kuban, Russia
- 1987 – 1988: Russian language learning, University of Poltava, Ukraine

Publications (20 listed)

1. **Baimey H.**, Kotchofa R., Zadji L., Godjo A., Afouda L., Fanou, A., Ahissou R., Djaouga Mamadou N. & Decraemer W. 2021. Entomopathogenic nematodes as biological control agents in Benin: A review. In: Benin: Past, Present and Future Perspectives. Nova Science Publishers. *In Press*.
2. **Baimey H.**, Kotchofa R., Zadji L., Fanou, A., Dossou-Agbede, R., Tella E.H. & Alia A-M. 2021. Resurgence of *Spodoptera frugiperda* (Lepidoptera: Noctuidae) in Maize Fields in northern Benin: Towards the development of a control method integrating entomopathogenic nematodes. In: Benin: Past, Present and Future Perspectives. Nova Science Publishers. *In Press*.
3. **Baimey, H.**, Hamamouch, N. and Kolombia, Y. 2019. Horticultural crops. Editors of the book. *IntechOpen Science*. pISBN 978-1-83880-421-3. eISBN 978-1-83880-422-0 eBook (PDF) ISBN 978-1-83880-437-4. DOI: <http://dx.doi.org/10.5772/intechopen.73771>

4. **Baïmey, H.**, Zadji, L., Afouda, L., Fanou, A., Kotchofa, R. and Decraemer, W. 2017. Searching for better methodologies for successful control of termites using entomopathogenic nematodes. *In: Shah M. M. and Mahamood M. (eds). "Nematology - Concepts, Diagnosis and Control"*. InTech Publisher, Pages: 53-83.
5. B. James, C. Atcha-Ahowé, I. Godonou, **H. Baïmey**, G. Goergen, R. Sikirou and M. Toko. 2010. Integrated pest management in vegetable production: A guide for extension workers in West Africa. *International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria*. 112p. *The French version of this book is available*
6. Danso, Y., Osey, K., Adomako, J., Issa, U.S., Baafi, E., Abugri, B. and **Baïmey, H.** 2020. Sweetpotato production practices and *Cylas* species management options in Southern Ghana. *Asian Journal of Agricultural Research*. 14:41-48
7. Danso, Y., Osey, K., Adomako, J., Issa, U.S., Abugri, B. and **Baïmey, H.** 2019. Survey of entomopathogenic nematodes; potential biological control agents, in Ghanaian soils. *International Journal of Entomology and Nematology*. 5(2):142-147.
8. Kotchofa, R., **Baïmey, H.**, Fanou, A., Zadji, L. and Sodjinou, E. 2019. Diversity and distribution of sweet potato weevils (*Cylas* spp.) in southern Benin and some sweet potato production practices used. *Annales de l'Université de Parakou Série « Sciences Naturelles et Agronomie »*. 9(1): 1-10.
9. Kotchofa, R. and **Baïmey, H.** 2019. *In Vivo* production of entomopathogenic nematodes using *Galleria mellonella*: costs and effect of diets on nematode pathogenicity. *Journal of Nematology*. 51:1-15
10. Kotchofa, R., Fanou, A., **Baïmey, H.**, Azanma, F., Zadji, L. and Sodjinou, E. 2019. Tolérance de quelques accessions de patate douce (*Ipomoea batatas* L.) cultivées au sud-Bénin aux charançons de la patate douce (*Cylas* spp.) sous infestation naturelle. *Journal of Applied Biosciences*. 140:14293-14303.
11. Sinhouenon, B. G., **Baïmey, H.**, Wauters, L., Dossu, R., Ahissou, R. B., Decraemer, W. and Schiffers, B. 2019. Impact of insecticides on the efficacy of entomopathogenic nematodes against the diamondback moth, *Plutella xylostella* (L.) (Lepidoptera: Plutellidae) on cabbage in northern Benin. *Biotechnologie, Agronomie, Société et Environnement (BASE)*. 23(4):1-13
12. Grossi-de-Sá, M., Petitot, A-S., Xavier, D.A., Lisei de Sá, M. E., Mezzalira, I., Beneventi, M. A., Martins, N. F., **Baïmey, K. H.**, Albuquerque, E. V. S., Grossi-de-Sá, M. F., D. Fernandez. 2019. Rice susceptibility to root-knot nematodes is enhanced by the *Meloidogyne incognita* MSP18 effector gene. *Planta*. 250(4):1215-1227.
13. Godjo, A., Afouda, L., **Baïmey, H.**, Couvreur M., Zadji, L., Houssou, G., Bert, W., Willems, A., Decraemer, W. 2018. *Steinernema kandii* n. sp. (Rhabditida: Steinernematidae), a new entomopathogenic nematode from Northern Benin. *Nematology*. 21(2):1-22.
14. Godjo, A., Afouda, L., **Baïmey, H.**, Decraemer, W. and Willems A, A. 2018. Molecular diversity of *Photorhabdus* and *Xenorhabdus* bacteria, symbionts of *Heterorhabditis* and *Steinernema* nematodes retrieved from soil in Benin. *Archives of Microbiology*, 200(4), 589-601.
15. Fanou, A., **Baïmey, H.**, Behoundja-Kotoko, O., Dedjiho, A., Missihoun, A. A., Sovegnon, P., Agbangla, P. 2017. Distribution et importance des symptômes de viroses de piment (*Capsicum* spp.) de contre saison dans le Département de la Donga au Nord-Bénin et caractérisation moléculaire des accessions. *Annales de l'Université de Parakou. Série "Sciences Naturelles et Agronomie"*, 7(1):32-40.
16. **Baïmey, H.**, Fanou, A., Adandonon, A., Behoundja-Kotoko, O., Agandan, N., Houssou, G., Dossou-Agbede, R. 2017. Sweet potato *Ipomoea batatas* (L.) storage practices used in

southern Benin and the use of entomopathogenic nematodes to control sweet potato weevil (*Cylas puncticollis* Boheman) under laboratory conditions. *Journal of Entomology and Zoology Studies*. 5(6):549-556.

17. Datinon B. D., Adandonon, A., **Baimey, H.**, Houssou, G. F., and Tamo, M. 2017. Les insectes ravageurs, maladies et nématodes associés à la culture de *Jatropha curcas* en République du Bénin. *Annales des Sciences Agronomiques*. 21 (2) : 125-150.
18. **Baimey, H.**, Zadji, L., Afouda, L., Moens, M. and Decraemer, W. 2015. Influence of pesticides, soil temperature and moisture on entomopathogenic nematodes from southern Benin and control of underground termite nest populations. *Nematology*, 17(9):1057-1069.
19. Affokpon, A., **Baimey, H.**, Achigan-Dako, E.G., Tossou, C., Lokossou, J.N., and Bokonon-Ganta, A.H. 2014. Improving productivity of *Citrullus lanatus* subsp. *Mucosospermus* (egusi melon) through identification and use of local nematode resistant varieties. *Journal of Nematology*, 46(2):131-132
20. Zadji, L., **Baimey, H.**, Afouda, L., Moens M. and Decraemer, W. 2014. Characterization of biocontrol traits of heterorhabditid entomopathogenic nematode isolates from South Benin targeting the termite pest *Macrotermes bellicosus*. *BioControl*, 59(3):333-344.

Recent conference participation (last 3 years)

1. Djaouga, N.T.M., Diogo, R., **Baimey, H.** 2020. Développement du gboma (*Solanum macrocarpon* L.) sous l'influence du biocha, de la fréquence d'arrosage et des nématodes à galles en conditions de serre. 5^e Colloque scientifique international de l'Université de Parakou. 19-22 octobre 2020. Livre des résumés
2. Zadji D.V.L., Kotchofa A.M.R., **Baimey K.H.** 2019. Effet de fréquences d'application de nématodes entomopathogènes dans la gestion des charançons *Cylas puncticollis* inféodés à la culture de la patate douce en milieu paysan au sud Bénin. 4^e Journées scientifiques du CAMES. 2-5 Décembre 2019, Ouidah, Bénin.
3. **Baimey H.**, Afouda L., Akpo N., Zadji L., Ahissou, R., Decraemer W. 2018. Diversité des termites des vergers d'agrumes au sud Bénin et leur sensibilité aux huiles essentielles de quelques plantes en conditions de laboratoire. 4^e Colloque International de l'Université de Parakou. 28-30 novembre 2018, Parakou, Benin. Livre des résumés. p83.
4. **Baimey, H.**, Kotchofa, R., Agbokponto, S., Fanou, A., Zadji, L. & Sodjinou, E. 2018. Development of *Galleria mellonella* larvae fed on different diets and pathogenicity of entomopathogenic nematodes emerging from those insects. Grand Challenges annual meeting. 15-18 Octobre 2018. Berlin, Germany. Poster abstracts. p44.
5. Kotchofa R.A.M., **Baimey H.**, Fanou A., Houssou-Gbo A.M.K. 2018. Lutte intégrée contre le charançon *Cylas* spp. de la patate douce (*Ipomoea batatas* L.) par l'utilisation des nématodes entomopathogènes et de la résistance variétale au champ. 18^e Edition des journées scientifiques internationales de Lomé, Togo. 8-13 Octobre 2018, Lomé, Togo. Livre des résumés. p29.
6. **Baimey, H.**, L. Zadji, A. Fanou, R. Kotchofa, R. Dossou-Agbede, H. Tella, and AM. Alia. 2018. The resurgence of *Spodoptera frugiperda* in maize fields in northern Benin: Towards the development of a control integrating entomopathogenic nematodes. 57th Annual Meeting of the Society of Nematologists. 22-25 July 2018, Albuquerque, New Mexico. USA. Book of Program and Abstracts. p33.
7. **Baimey, H.**, A. Fanou, L. Zadji, R. Elegbede, and R. Kotchofa. 2018. Survival and reproduction of Benin isolates of entomopathogenic nematodes under various temperature, desiccation, hypoxia conditions. 57th Annual Meeting of the Society of Nematologists.

22-25 July 2018, Albuquerque, New Mexico. USA. Book of Program and Abstracts. p
32-33.