**Ponchang Apollos Wuyep (BSc.Unijos, MSc and PhD. ABU)**

Member, Society for General Microbiology (SGM), UK

Member, International Society for Human and Animal Mycology (ISHAM)

Member, Biotechnology Society of Nigeria.

# Motivation

I am very passionate about knowing and passing onto others what I have learnt. I hold a BSc, MSc and PhD in Plant Science, but over the years have taught and participate at Undergraduate and graduate levels; in Basic researched covering all aspects of Biological sciences. My major interest is a focus on the study of microbial interactions with plants, animals/humans and the environment. To focus on the roles of these microbes in their ecological niches, can improve the well being of other organisms and the overall health of Planet Earth.

My unquenchable interest in microbial interactions motivates me to seek platforms that will enable me propagate the same interest. I have tremendous drive in mentoring younger minds towards understanding and imbibing these concepts, to further my career aspirations not only to enrich my education and personal experience, but in the larger interest of the scientific world.

Current project is Infection and immunity in Drosophila melanogaster (Understanding which phytochemicals act as antifungal agent in improving the survival of Drosophila challenged with virulent fungal pathogens).

Hence, I am in search of springboards that will engender the brooding and breeding of these concepts to reality.

# CURRICUL UM VITAE

## PERSONAL DATA

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|---|---|
| NAME: | Ponchang Apollos Wuyep |
| DATE AND PLACE OF BIRTH: | 12TH June, 1965/Kano |
| LOCAL GOVERNMENT AREA: | Langtang-North |
| STATE OF ORIGIN: | Plateau |
| NATIONALITY: | Nigeria |
| CONTACT ADDRESS: | Department of Plant Science and Biotechnology, University of Jos, Nigeria |
| HOME ADDRESS: | L5 Gwafan layout, Lamingo (Haske qtrs), Jos North, Plateau State |
| EMAIL ADDRESS: | wuyepp@unijos.edu.ng or zhimak.wuyep@gmail.com |
| PHONE NUMBER: | + 234(0) 803 450 3176, +234(0) 8091926338. |
| NUMBER OF CHILDREN & AGES: | Two (2); Nayah (15) AND Nanna (6) |
| PRESENT POSITION: | Associate Professor, Applied Microbiology and Biotechnology |
| AREA OF SPECIALIZATION: | Applied Microbiology and Biotechnology |

## INSTITUTIONS ATTENDED AND QUALIFICATIONS OBTAINED WITH DATES

1. RCM Primary School, Palam, Langtang- North School Leaving Certificate 1979
2. Command Secondary School, Jos- Nigeria. GCE O'Level 1984
3. University of Jos, Jos- Nigeria. BSc. Botany 1990
4. Ahmadu Bello University, Zaria. MSc. Botany (FungalBiotechnology). 2001
5. Ahmadu Bello University, Zaria. PhD. Botany (Fungal Biotechnology). 2007
6. Certificate in Polymerase Chain Reaction Techniques, FUNAAB 2003
7. Certificate in Standard in-vitro Recombinant DNA Techniques, FUNAAB 2004

8. Certificate in In vitro manipulation and Tissue micropropagation, University of Louvan la Neurve, Belgium 2008

## SCHOLARSTIC HONORS

1. Plateau State Scholarship Grant, 1986-1990
2. McArthur Residency Grant, 2008
3. University Board of Research (UBR, ABU, Zaria) 2010
4. The Microbiology Society (SGM), UK International Development Fund, 2012
5. Institutional Based Research Grant (TETFUND), 2014

## WORK EXPERIENCE/CAREER PROGRESSION

1. Associate Professor, University of Jos. 2014 to Date
2. Acting Head of Department, Plant Science and Technology, University of Jos, Nigeria. 2015-to date**.**
3. Visiting Professor, Department of Biological Sciences, Federal University, Lafia 2017
4. Deputy Vice Chancellor, Academics Affairs, Kampala International University, Dar es Salaam College, Tanzania (Now, University of Management and Science, Tanzania; UMAST). 2013-June2014
5. Associate Professor, Department of Microbiology and Immunology, School of Health Sciences, Kampala International University Dar es Salaam Campus (KIUDCC), 2012
6. Training Coordinator, Centre for Biotechnology Research and Training (CBRT), A.B.U., Zaria 2007-date
7. Member, Plant Biotechnology Research Group, Center for Biotechnology Research and Training (CBRT), Ahmadu Bello University, Zaria 2008-2012.
8. Staff and Postgraduate Seminar Coordinator, Dept. of Biological Sciences, A.B.U., Zaria 2007-2011
9. Senior Lecturer, Department of Biological Sciences, A.B.U., Zaria. 2010-2013
10. Visiting Senior Lecturer, Nigerian Defence Academy (NDA), Kaduna, Nigeria. 2009-2011 Senior Lecturer (Sabbatical leave), Kampala International University (KIU), western Campus, Ishaka-Bushenyi, Uganda.
11. Lecturer I, Department of Biological Sciences, A.B.U., Zaria 2007-2010
12. Lecturer II, Department of Biological Sciences, A.B.U., Zaria. 2004-2007
13. Assistant Lecturer, Department of Biological Sciences, A.B.U., Zaria. 2001-2004
14. Graduate Assistant, Department of Biological Sciences, A.B.U., Zaria. 1997-2001
15. Field Representative for Campus Crusade for Christ International, USA. 1992-1997

## MEMBERS OF PROFESSIONAL BODIES

1. **Biotechnology Society of Nigeria (BSN) 2006**

2. **The Microbiology Society (SGM), UK** **2002**

3. **International Society for Human and Animal Mycology (ISHAM).** **2010**

## RESEARCH ACTIVITIES

1. Studies on the ligninolytic activity of *Lentinus squarrosulus* (Mont) SINGER AND *Psathyrella atroumbonata* PEGLER in the presence of some cofactors. Completed in 2001

2. Screening, Biochemical characterization and cloning of Laccases gene LAC1 from Lachnocladium sp in pGEM-T plasmid. Completed in 2006

3. Molecular biology: PCR, RT-PCR, RAPD, SDS-PAGE, DNA Manipulation, etc. 2002 ongoing

4. In vitro cultivation of Isolated Arbuscular Mycorrhizal fungi from Kagoro, 2008-2010
5. Isolation, biochemical characterization of fungal enzymes from white rot fungi. 1999-to date
6. Isolation and sub- cloning of LAC1 gene from *Lachnocladium species* (White rot fungi) 2006-2007
7. Isolation, cloning and expression of TSI gene from *Trypanosoma brucei brucei in E.coli* DH5á 2007-2008
8. Use of Multiples PCR in isolation of *Mec A* gene from clinical isolates of ***Staphylococcus aureus*** 2008
9. Cloning and expression of the LAC1 gene in *Pycnoporus cinnabarinus* expression vector for Bioethanol production ongoing
10. Screening of Antimicrobial properties of the family Combretaceae and its in vitro and in vivo investigation using *Drosophila melanogaster* (Fruit fly) as a Model.2016 to Date

## PUBLICATIONS

1. **Wuyep, P.A.,** Khan, A.U. and Nok, A. J. (2003). Production and regulation of lignin degrading enzymes from *Lentinus squarrosulus* (Mont.) Singer and *Psathyrella atroumbonata* Pegler. *African Journal of Biotechnology* 2 (II): 444 - 447.

2. **Wuyep, P.A.,** Khan, A.U., and Ameh, J.B. (2004). Screening of wild-type *Psathyrella atroumbonata* Pegler for Laccase. *Journal of Tropical Biosciences*. 3:74-77

3. Shide, E.G., **Wuyep, P.A.** and Nok, A.J. (2004). Studies on the degradation of wood sawdust by *Lentinus squarrosulus* (Mont.) Singer. *African Journal of Biotechnology* 3(8):395-398.

4. **Wuyep, P.A**., Chukwuma, A.G., Awodi, S. and Nok, A.J. (2007). Biosorption of Cr, Mn, Fe, Ni, Cu and Pb metals from Petroleum Refinery effluent by Na-Ca alginate immobilized mycelia of *Polyporus squamosus*. *Scientific Research Essay*. 2 (7): 217-221.

5. Adelanwa, M.A., **Wuyep, P.A**., Achi, I. and Adelanwa, E.B. (2005). Antibacterial effects of *Acacia nilotica* L. WILLD EX DEL, *Moringa oleifera* and *Erythrina vogelli* (L) DC extracts on *Salmonella typhi*. *International Journal of Gender and Health studies*. Vol 3, No. 1 & 2 pp.185-189.

6. Shuaibu, M.N.; **Wuyep, P.A**.; Yanagi, T.; Hirayama, K.; Tanaka, T.; Kouno, I. (2008). The use of microfluorometric method for activity-guided isolation of antiplasmodial compound from plant extracts. *Parasitology Research* 102(6): 1119-1127. [DOI]

7. Shuaibu, M.N.; **Wuyep, P.A**.; Yanagi, T.; Hirayama, K.; Ichinose, A.; Tanaka, T.; Kouno, I. (2008). Trypanocidal activity of extracts and compounds from the stem bark of *Anogeissus leiocarpus* and *Terminalia avicennoides*. *Parasitlogy Research* **102**, 697-703. [DOI]

8. Shuaibu, M.N.; Pandey, K.,**Wuyep, P.A**.; Yanagi, T.; Hirayama, K.; Ichinose, A.; Tanaka, T.; Kouno, I. (2008).Castalagin from *Anogeissus leiocarpus* mediates the killing of Leishmania in vitro. *Parasitlogy Research* **103**, 1333-1338. [DOI]

9. Aina, V.O., Inuwa, H.M., Ibrahim, S., Ameh, D.A., Nok, A.J., Aimola, I. and **Wuyep, P.A**. (2009). Effectiveness of Genomic DNA extraction protocol from three species of African Mistletoe. *Journal of Pharmaceutical and Allied Sciences* 6(3):608-613.

10. Shugaba, A. **Wuyep, P.A**., Nok, A.J., Ameh, D.A. and Lori, J.A. (2010). Bioremediation of hexavalent Chromium and Tannic acid in synthetic Tannery wastewater using free and Calcium Alginate immobilized spores and mycelia of *Aspergillus niger* and *Aspergillus parasiticus. Bioremediation journal*, 14(3):142-149 DOI:

11. Y.A. Yabefa, B.O. Aderemi, and **Wuyep, P.A**. (2010). Pre-treatment of Orange Mesocarp with Alkaline solutions to Optimize Glucose yield by *Trichoderma reesei*. *ChemClass Journal* 7:027-030.

12. Aluwong, T., **Wuyep, P.A.** and Allam, L. (2011). Livestock environment interactions: Methane emissions from ruminants. *African Journal of Biotechnology*. 10(8): 1265-1269.

13. Ali, B.D., Khan, A.U., Dangora, D.B. and **Wuyep, P.A. (**2011). The Agaricaceae of Northern Nigeria II. Their Morphology and Taxonomy. International Journal of Biological Science, Vol. 3(3):54-59.
14. Yunusa, A., Alonge, S.O., Wuyep, P.A., Mohammed, S.S.D., Muhammed, H.M. and Aliyu, H. (2013). Use of Amaranthus lines as trap crop for the control of Alectra vogelii

(Benth) on Cowpea Production. Journal of Science and Multidisciplinary Research, Vol. 2(2) pp.1-16

**15.** H. Zanna1, M.A. Milala1, A.J. Nok, **Wuyep, P.A.** and E. Amlabu. (2014). Time course – of acid Phosphatase and β-galactosidase of starved *Escherichia coli* cells. Journal of Biological Sciences and Bioconservation Volume 6(Number 1).

16. **Wuyep, P.A.**, Ume, O.N., Bakare-Odunola, M.T., Nok, A.J, Inuwa, H.M. and Afolabi-Balogun, N.B. (2012). Purification and partial characterization of laccase from Lachnocladium sp. *International Journal of Biological and chemical sciences*. 6(2):782-791.
17. F.B. Ibrahim, C.A. Okuofu, E.E. Ella, **Wuyep, P.A.** and H.M. Raji (2012). Bioremediation of abattoir waste water using Algae and immobilized cells of *Aspergillus niger*. *NSUK journal of Science and Technology (NJST)* 2(1 & 2): 226-231.

**18.** P.O. Nwadiaro, A.I. Ogbonna, **P.A. Wuyep** and M.D. Sila-Gyang (2015). Antifungal Activity of *Cucumis metuliferus* E.Mey. ex Naudin on Some Post-Harvest Decay Fungi of String beans. *Journal of Academia and Industrial Research (JAIR)* 3(10):490-496.

**19.** Nwadiaro P.O., **Wuyep P.A.,** Ogbonna A.I., Nwaukwu I.A, and Nwanokwai, M. (2015) Mycoflora of stored *Parkia biglobosa* (JACQ.) R.BR. EX G.DON (Locust bean) Seeds from Markets in Jos, Nigeria and changes in their nutritional composition. *International Journal of Recent Scientific Research* 6(3):2932-2937,

**20.** Nwadiaro P.O., Ogbonna AI, **Wuyep PA** and A. Deborah (2015) Keratinolytic activity of Cladosporium and Trichoderma apecies isolation from barbers' landfill. *International Journal of Biosciences*, 6(10): 104-11**5**

21. Dawang, N.N., **Wuyep, P.A**., Lar, P.M., And Onwuliri, F.C.(2015). Plasmid profiles of Multidrug resistant Salmonella isolates from a Teaching Hospital in Jos, Nigeria. *IOSR Journal of Pharmacy and Biological Sciences*. 10(5) ver II:34-38
22. Duniya, D.A., Maikaje, D.B., Umar, Y.A.; **Wuyep, P.A**. and Abba, D.(2016). Molecular Characterization and Determination of Bioremediation potentials of some Bacteria isolated spent oil contaminated soil mechanic workshops in Kaduna metropolis. *World Applied Sciences Journal* 34(6):750-759.
23. Habu, J.B., Ndams, I.S., **Wuyep**, **P.A.,** Ibeh, B.O. and Ameh, J.B. (2017). Isolation and Biochemical characterization of Anaerobic Bacteria strains from discarded Ruminal contents of Nigerian breed cattle and preliminary evaluation of its suitability for Animal feedstuff. *Biotechnology Journal International*. 17(2):1-13.
24. Goselle, O.N., Joshua, S.M., Okafor, U.C., Ngoh, B.J., **Wuyep, P.A**., Chaksda, A and Mafuyai, H.B. (2017). Study on population dynamics of blackflies Imagos. *Journal of Entomology and Zoology studies*, 5(1): 530-539.
25. Goselle, O.N., Joshua, S.M., Okafor, U.C., Ngoh, B.J., **Wuyep, P.A.**, Chaksda, A and Mafuyai, H.B. (2017). Oviposition and cues in blackflies: Possible clues for boom of Adult population. *International Journal of Mosquito Research* 4(2):111-124
26. **Wuyep, P.A.,** Ibukun, V. J., Musa, H. D., Sila Gyang, M. D. and Nyam, D. D. (2017). Molecular Characterization and Phylogenetic Analysis of Some Agaricomycetes

(Mushroom) fungi from Kogi State, Central Nigeria. Inetrnational *Journal of Sciences: Basic and Applied research (IJSBAR),* 3(2):276-292.

*27.* **Wuyep, P.A.,** Ibukun, V. J. and Musa, H. D. (2017). Agaricomycota (Mushroom) occurrence, Distribution and Species Abundance in Kogi State, Central Nigeria. *Journal of Sciences: Basic and Applied research (IJSBAR),* 35(3):12-29.

28. **Wuyep, P. A.,** Musa, H. D., Ezemokwe, G. C., Nyam, D. D. and SilaGyang, M. D. (2017). Phytochemicals from *Ageratum conyzoides* L. Extracts and their Antifungal Activity against Virulent *Aspergillus* spp. *Journal of Academia and Industrial research* (JAIR). Vol.6.no. 3. Pg. 32-39

**29. Wuyep, P.**A.,Ezemokwe, G.C. and Sila Gyang, M.D.(2017). Evaluation of the efficacy of *Alchornea cordifoilia* Mull.Arg., *Ageratum conyzoides* Linn and *Euphorbia hirta* Linn Plant extracts against virulent Aspergillus species. *FULAFIA Journal of Science and Technology (FJST).* 3(1). March 2017. **(Acceptance)**

30. **Wuyep, P.A**., Sila Gyang, M.D., and Kutshik, R.J.(2017). Induction and Purification of Diphenol Oxidase (Laccase) from *Lenzite elegans. FULAFIA Journal of Science and Technology (FJST).* 3(1). March 2017.**(Acceptance)**

31. Nyam, D.D., KwonDung, E.H. and **Wuyep, P.A.**(2017). RFLP-Based Gel electrophoresis of DNA primers for Acha(fonio) Characterization from Nigeria. International Journal of Innovative Approaches in Agricultural Research. Vol.1 pp.51-59.

32. **Wuyep,** P. A., Ezemokwe, G. C., Kakjing, F and Dafam, D.(2018).Alcoholic extracts from *Alchornea cordifolia* (Schumach. & Thonn.) Mull. Arg. improved survival of *Drosophila melanogaster* infected with virulent Aspergillus species. Journal of Medicinal Plants Research, Volxxx. Pgxx.

33. **Wuyep,** P.A. and Victoria, I. J. (2017). Occurrence and Molecular Characterization of Central Nigeria Mushrooms. Lambert Publishers, pgs.132.

## Paper presented at Conference

1. **Wuyep, P.A.,** Khan, A.U., Ameh, J.B. and Nok, A. J. (2000). Optimization, production and isolation of ligninase enzymes from *Psathyrella atroumbonata* Pegler and *Lentinus squarrosulus* (Mont.) Singer in solid substrate fermentation condition.Proceeding of the international conference of Biotechnology at Abuja on the 24 - 26$^{th}$ October, 2000.

2. **Wuyep, P.A.,** Khan, A.U., and Ameh, J.B. (2002). The influence of metal ions and temperatures on the growth of two Basidiomycetes. Presented at 11$^{th}$ annual conference of Botanical Society of Nigeria at University of Agriculture, Abeokuta on the 10-13$^{th}$ March, 2002

3. Shuaibu MN, **P.A. Wuyep,** H. Kanbara, T. Yanagi, T. Tanaka, I. Kouno. In vitro anti-parasitic activity of extracts of some medicinal plants from northeast Nigeria.54th annual

meeting of Japanese society of Pharmacognosy, 4-15th September 2007, Nagoya, Japan.

4. Shuaibu MN, **P.A. Wuyep,** H. Kanbara, T. Yanagi,T. Tanaka, I. Kouno. In vitro screening of methanolic extracts of 16 medicinal plants from Nigeria against some pathogenic trypanosomatids. Annual Meeting of the Japanese Pharmaceutical Society, 28-30th March, 2007, Toyama , Japan

5. Ibrahim, AB; Usman, IS; **Wuyep, PA**; Sani, LA; Ibrahim, S and Nok, AJ. In vitro Regeneration and Genetic Transformation of *Jatropha curcas* L. 22$^{nd}$ Annual Conference of Biotechnology Society of Nigeria, 28$^{th}$ -31$^{st}$ July, 2009. Ahmadu Bello University, Zaria-Nigeria.

6. Ella, EE; Yusuf, SS; Elisha, JJ; **Wuyep, PA**; George, E; Pala, YY; Afolabi-Balogun, B; Habila, AJ and Nok, AJ. A modified CB2 method for Isolation of Genomic DNA from Maize endosperm. 22$^{nd}$ Annual Conference of Biotechnology Society of Nigeria, 28$^{th}$ - 31$^{st}$ July, 2009. Ahmadu Bello University, Zaria-Nigeria.

7. Olayinka, BO; Afolabi-Balaogun, NB; Olayinka, AT; Adeshina, GO; Olonitola, OS; Onaolapo, JA and **Wuyep, PA**. Validation of a Duplex PCR method for the Detection of ***mecA*** Gene and Species confirmation in Methicillin-Resistant ***Staphyloccus aureus*** (MRSA). 22$^{nd}$ Annual Conference of Biotechnology Society of Nigeria, 28$^{th}$ -31$^{st}$ July, 2009. Ahmadu Bello University, Zaria-Nigeria.

8. Aluwong, T; **Wuyep, PA** and Lushaikiyaa, A. Livestock-Environment Interactions: The Case of Methane Emissions from ruminants. 22$^{nd}$ Annual Conference of Biotechnology Society of Nigeria, 28$^{th}$ -31$^{st}$ July, 2009. Ahmadu Bello University, Zaria-Nigeria.

9. Musa, H; Adamu, A.K.; Khan, A.U. and **Wuyep, P.A.** Molecular Characterization of some wild Agaricus species from Zaria Province, Nigeria. 24th Annual Conference of Botanical Society of Nigeria, 14$^{th}$ August-17$^{th}$ August, 2016. University of Ibadan, Nigeria

10. Musa, H; Adamu, A.K.; Khan, A.U. and **Wuyep, P.A.** Ecological distribution of some Nigerian Wild Agaricus species. 24 th Annual Conference of Botanical Society of Nigeria, 14$^{th}$ August-17$^{th}$ August, 2016. University of Ibadan, Nigeria

## Workshops and Conferences Attended

1. A Fourteen-Day Training Course on Polymerase Chain Reaction Techniques training at Biotechnology Centre University of Agriculture Abeokuta, Nigeria.
2. A Fourteen-day training course on Standard in-vitro DNA techniques at Biotechnology Center University of Agriculture Abeokuta.
3. International training course on in vitro cultivation of arbuscular Mycorrhizal fungal at GINCO/MUCL Laboratory, Catholic University of Louvain-la-Neuve, Brussels-Belgium.
4. ICGEB/WABWS sponsored course on Comparative Pathogens Genomics and Bioinformatics held on 14-19$^{th}$ December, 2009 at IITA, Ibadan.
5. A six-month residency grants from MacArthur Foundation, USA. 2008

**COMMUNITY SERVICES**

1. Member, Faculty Administrative Committee 2015
2. Member, Iche Community Development Association (ICDA) 2015
3. Member, Nimbar Community Development Association
4. Member, Project Management Committee, African Centre of Excellence in Phytomedicine Research and Development (ACEPRD), University of Jos, Nigeria 2015
5. Tissue Culture Laboratory Technical Committee, Kaduna State Government 2015
6. Chairman, Faculty Conference Committee, 2016
7. Bioresources Manager, Biosential Ltd 2016
8. Member Editorial Board, Nigerian Journal of Bioetchnology (NJB) 2017
9. Member Editorial Board, Nigerian Journal of Science and Technology. 2017
10. Faculty Member, DrosAfrica, UK 2017

**HOBBIES**

Driving, Biking, Reading, Squash

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Signature Date