

PROFESSOR CLEMENTINA O. ADENIPEKUN

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| I. | (a) <u>Name:</u> | Clementina Oyinkan <u>Adenipekun</u> |
| | (b) <u>Date of Birth:</u> | 2 June, 1964 |
| | (c) <u>Department:</u> | Botany |
| | (d) <u>Faculty:</u> | Science |
| II. | (a) <u>First Academic Appointment:</u> | Assistant Lecturer, 7 May, 2001 |
| | (b) <u>Present Position (with date):</u> | Professor, 1 October, 2015 |
| | (c) <u>Date of Last Promotion:</u> | Professor, 1 October, 2015 |
| III. | <u>University Education (with dates)</u> | |
| | (a) University of Ibadan, Ibadan | 1981 – 1984 |
| | (b) University of Ibadan, Ibadan | 1985 – 1986 |
| | (c) University of Ibadan, Ibadan | 1997 – 2003 |
| IV. | <u>Academic Qualification (with dates and granting bodies)</u> | |
| | (a) Ph.D. Botany, (University of Ibadan, Ibadan) | 2003 |
| | (b) M.Sc. Botany, (University of Ibadan, Ibadan) | 1986 |
| | (c) B.Sc. Hons Botany, (University of Ibadan, Ibadan) | 1984 |
| V. | <u>Professional Qualification and Diploma (with dates)</u> | |
| | (a) Certificate in Truffle and Fungal Biotechnology (U.S.A.) | 2007 |
| | (b) Certificate in Mushroom Cultivation Techniques
(ZERI Project/University of Namibia Main Campus) | 2015 |
| | (c) Institute of Industrial Administration of Nigeria | Fellow 2011 |
| | (d) African Scientific Institute | Fellow 2011 |
| VI. | <u>Scholarship, Fellowship and Prizes</u> | |
| | (a) Google scholar citation (citations 1369).
h-index 20 i10-index 33 | February,2026 |
| | (b) Research gate RG citations 1142 | |
| | (c) Senate Research Grant (University of Ibadan, Nigeria) | 2010 |
| | (d) UNESCO-TWAS Fellowship for Research and Advanced
Training(University of Namibia,Windhoek campus,Namibia | January -April,2026 |
| VII. | <u>Honours, Distinctions and Membership of Learned Societies</u> | |
| | (a) Member, Botanical Association of Nigeria | 2007 – 2020 |
| | (b) Member, Science Association of Nigeria | 2005 – to date |
| | (c) Member, Mycological Society of Nigeria | 2008 – to date |
| | (d) Treasurer, Mycological Society of Nigeria | 2008-2019 |
| | (e) Financial secretary, Mycological Society of Nigeria | 2019-to 2025 |
| | (f) Treasurer, Mycological Society of Nigeria | 2025 to date |
| | (d) Member, Mycological Society of America | 2006 –2015, 2019 to date |
| | (e) Member, International Society of Mushroom Science | 2007 – to date |
| | (f) Member, British Mycological Society | 2008 – to date |
| | (g) Member, Organization for Women in Science
(U.I. Chapter) | 2008 – to date
2019 – to date |
| | (h) Member, African Society for Edible and | |

	Medicinal Mushrooms	2009 – 2015
(i)	Fellow, Institute of Industrial Administration of Nigeria	2011 – 2015
(j)	Fellow, African Scientific Institute	2011 – 2015
(k)	Senate Research Grant (University of Ibadan, Nigeria)	2010
(l)	2nd Position Oral Presentation, Faculty of Science Conference, University of Ibadan	16 – 19 May, 2017
(m)	Fellow, Mycological Society of Nigeria (MYCOSON)	October 2021 – to date
(n)	Fellow, Royal Society of Botany	2014 – 2022

VIII. Details of Teaching/Work Experience at the University Level

Assistant Lecturer	Department of Botany and Microbiology, University of Ibadan, Ibadan	5 May, 2001 – 19 Jan. 2003
Lecturer II	Department of Botany and Microbiology, University of Ibadan, Ibadan	20 Jan. 2003 – 1 Oct. 2006
Lecturer I	Department of Botany and Microbiology, University of Ibadan, Ibadan	1 Oct. 2006 – 1 Oct. 2009
Senior Lecturer	Department of Botany, University of Ibadan, Ibadan	1 October 2009 – 1 Oct. 2012
Reader	Department of Botany, University of Ibadan, Ibadan	1 October 2012 – 1 Oct.2015
Professor	Department of Botany, University of Ibadan, Ibadan	1 October 2015-to date

(a) Undergraduate Courses Units

BOT 111	Cryptogamic Botany	3
BOT 141	Basic Principles in Botany	3
BIO 216	General Physiology of plants and animals	4
BOT 361	Introductory Physiology and Biochemistry	3
BOT 391	Industrial Attachment	3
BOT 461	Plant and Cell Biochemistry	3
BOT 462	Plant Physiology	3
BOT 463	Introduction to Mushroom Growing Technology	3
BOT 417	Environmental and Soil Pollution Monitoring	3
BOT 399	Industrial Field Experience	3
BOT 491	Research Project	4

(b) Postgraduate Courses Units

BOT 721	Fungi in Human Environment	4
BOT 722	Fungal Biotechnology and Assay Methods in Fungi	4
BOT 760	Instrumentation Techniques in Plant Physiology	4
BOT 761	Advanced Plant Physiology	4
BOT 763	Mushroom Growing Technology	4
BOT 701	Research Project	6
BOT 702	Literature Review	3

(c) Undergraduate Project Supervision

(i)	Already Supervised	58
(ii)	Presently Supervising	3

(d) Postgraduate Supervision

(i)	Already Supervised – M.Sc.	50
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(ii)	Presently Supervising – M.Sc.	2
(iii)	Already Supervised – Ph.D.	1
(iv)	Under Supervision – Ph.D.	2
(e)	University and Departmental Duties	
(i)	Member, Registration Committee	2001 – to date
(ii)	Member, Examinations Committee	2001 – 2015
(iii)	Departmental Students’ Adviser	2001 – 2015
(iv)	Member, Zoological Garden Management Board	2003 – 2004
(v)	Faculty of Science Board of Studies	2005 – 2007
(vi)	Congregation Representative on Senate, University of Ibadan	2005 – 2007
(vii)	Asst. Hall Warden (Abdulsalami Abubakar Hall)	2008 – 2012
(viii)	Congregation Representative in Senate	2011 – 2013
(ix)	Zoological Finance Committee	2012 – 2015
(x)	Examination Officer	2012 – January 2015
(xi)	Editorial Board, Journal of Science Research, University of Ibadan, Ibadan	2014 – 2015
(xii)	Senate Curriculum Committee	2016 – 2017
(xiii)	Senate representative (ITEMS)	2018 – 2019
(xiv)	Member, University Senate	2015 – till date
(xv)	Convener, Logistics committee, of Ibadan Research and Development Fair, Ibadan.	November, 2019.
(xvi)	Convener and Representative of Faculty of Science, UIRESDEV FAIR 2019 (AWARD of First position in Science/Technology faculties)	November, 2019
(xvii)	Hall Mistress	June 2021 to date
(xviii)	Chairman, Fund Raising Committee, Faculty of Science International Conference	May 2023
(xix)	Co-chairman (UIRESDEV FAIR COMMITTEE)	2025-to date

Postgraduate Supervision

(a) Ph.D. Degree

Major Supervision

- (i) Ekun, V.E. Cultivation and molecular characterization of *Auricularia* species in Southwestern Nigeria (2016).
TWO Ph.D in view

AWARDS/ MOU with other Universities

U.I. Senate Research Grant

2010 Research Grant (SRG/FS/2010/10^A) University of Ibadan, Ibadan, Nigeria titled “Bioremediation of spent and fresh cutting oil polluted soil by white rot fungi.

TETFUND Conference support funding

To attend and present a paper titled “Biodegradation of Polycyclic Aromatic Hydrocarbons in cutting fluids contaminated soil by *Pleurotus pulmonarius* (Fries) Quelet at the 7th International Medicinal Mushrooms Conference, Beijing, China. August 25 – 29, 2013.

MOU with other Universities

I initiated the establishment of an MOU between UNIVERSITY OF IBADAN, NIGERIA. AND UNIVERSITY OF NAMIBIA, NAMIBIA

To develop programme of activities which are mutually beneficial in the following areas:

- (a) Research collaboration in a broad range of fields
- (b) Exchange of academic staff and students
- (c) Co-supervision of postgraduate students

During my Training on Mushroom Cultivation Techniques at (ZERI Project/University of Namibia Main Campus, Windhoek, Namibia.

I initiated the signing of the MOU between University of Ibadan, Nigeria and Yangtze University, China.

OTHER APPOINTMENTS

Bowen University, Iwo
Associate Lecturer,
(Senior Lecturer)

Department of Biological Sciences,
Faculty of Science and Science Education
2012/13

OTHER ACADEMIC ACTIVITIES

SABBATICAL LEAVE

Department of Plant Biology,
University of Ilorin,
Nigeria.

March 2, 2020 – March 2, 2021

OTHER RESPONSIBILITIES OUTSIDE THE UNIVERSITY

Treasurer (Mycological Society of Nigeria)	2008 – 2019
Financial Secretary (Mycological Society of Nigeria)	2019 – 2025
Treasurer (Mycological Society of Nigeria)	2025-to date

External Assessor for Professional Cadre

University of Lagos, Lagos
National Defense Academy, Kaduna
Olusegun Agagu University of Science and Technology, Okitipupa, Ondo State
University of Ilorin, Kwara state Nigeria.
Bowen University, Iwo , Osun state, Nigeria.
Obafemi Awolowo University, Ile-Ife, Nigeria.
Ladoke Akintola University of Technology, Ogbomosho, Oyo state, Nigeria.
Cross Rivers State University, Calabar, Nigeria.
Setako Makgatho b Health Sciences University, Pretoria, South Africa.

IX. RESEARCH

(i) Completed

- (1) Cultivation and comparative study on fructification, biological efficiency, proximate analysis and mineral composition of the cultivated local and exotic white-rot fungi
- (2) Biodegradation of agricultural wastes and PET plastics by white-rot fungi and Bioremediation of polluted soils by white-rot fungi
- (2) Phytochemical profiling, antioxidant and antimicrobial properties of *Ganoderma lucidum* and *Lentinus squarrosulus*
- (a) Evaluation of digestibility and nutritive potentials of *Citrus sinensis* and *Musa paradidica* biologically treated with three white-rot fungi.
- (b) Comparative effects of spent mushroom compost and NPK on the growth of *Zea mays* (maize) and *Sorghum bicolor* using fodder hydroponics technique.
- (c) Biosynthesis and characterization of silver nanoparticles of *Ganoderma lucidum*, *Pleurotus* species and tests for their antimicrobial properties.
- (d) Analysis of heavy metals in mushrooms collected from dumpsites and its health effect on albino wistar rat
- (j) Cytotoxicity antioxidant and *in vitro* inhibitory potentials of some mushrooms
- (l) Biofortification of selected mineral components of *Pleurotus ostreatus* (Jacq.) Fr. Kumm. by supplementing with mineral salts.

(ii) In Progress

CULTIVATION OF *Pleurotus Pulmonarius* (Fr.) Quel. AND *Ganoderma Sessile* Murrill. ON AGRICULTURAL WASTES.

Awodiran Festus Tunde And Adenipekun, Clementina Oyinkansola

(iii) Dissertation and Thesis

- (a) M.Sc. Dissertation: **Peters, C.O. (1986)**. Effect of additives on growth of *Pleurotus sajor-caju* on cassava peels. University of Ibadan, Ibadan (86pp.).
- (b) Ph.D. Thesis: **Adenipekun, C.O. (2003)**. Digestibility of selected agricultural wastes and bioremediation of oil-polluted soils by *Pleurotus tuber-regium* and *Lentinus subnudus*. University of Ibadan, Ibadan, Nigeria (220pp.).

PUBLICATIONS

(a) Books already published: Nil

(b) Chapters' in Books already published:

- (1) 'Cultivation of Edible Tropical Mushrooms' by Fasidi, I.O., Kadiri, M., Jonathan, S.G., **Adenipekun, C.O.** and Kuforiji, O.O. (2008). University Press Publishing House, University of Ibadan. ISBN 978-121-438-4 81pp.

Contributed three (3) chapters:

- (a) Chapter 5: Adenipekun, C.O. (2008). Bioremediation by White-Rot Fungi. Pg. 51 – 54.
- (b) Chapter 6: Adenipekun, C.O. (2008). Mycoremediation. Pg. 55 – 58.
- (c) Chapter 7: Adenipekun, C.O. (2008). Spent Mushroom Substrate. Pg. 56 – 65.

(c) Articles that have already appeared in referred Conference Proceedings:

- (2) Ogunkunle, C.O., Jmoh, M.A., Adegboye, E.F., Rufai, A.B., Olatunji, A.O., Okunlola, G.O. and **Adenipekun, C.O.** (2023). Nanoparticles based management of cadmium toxicity in crop plants phytoremediation management environmental doi.10.007/978.3-031-17988-4-2. Vol. 7 p. 549 – 570.
- (3) **Adenipekun, C.O.** and Fasidi, I.O. (2005). Lipid, protein, carbohydrate and mineral contents of some Nigerian edible fruits. *Bulletin of Science Association of Nigeria*. 282 – 289.
- (4) **Adenipekun, C.O.** and Omoruyi, O.M. (2008). Bioaccumulation of heavy metals and enzyme activities of *Pleurotus ostreatus*. Proceedings of the 17th Congress of Edible and Medicinal Fungi. *Mushroom Science* 17: 842 – 849 (Poster Presentation).

(d) Patents – Nil

(e) Articles that have already appeared in learned journals

- (5) **Adenipekun, C.O.** and Fasidi, I.O. (2002). Effects of sterilants on growth of *Pleurotus sajor-caju* on cassava peels. *Advances in Food Sciences* Vol. 24 No. 1: 94 – 98.
- (6) **Adenipekun, C.O.** and Fasidi, I.O. (2003). Effect of animal manures of the growth and fruit body production of *Pleurotus sajor-caju* on cassava peels. *Advances in Food Sciences* Vol. 25 No. 2: 70 – 73.
- (7) **Adenipekun, C.O.** and Fasidi, I.O. (2005). Bioremediation of oil-polluted soil by *Lentinus subnudus*, a Nigerian white-rot fungus. *African Journal of Biotechnology* Vol. 4 No. 8: 796 – 798.
- (8) **Adenipekun, C.O.** and Fasidi, I.O. (2005). Degradation of selected agricultural wastes by *Pleurotus tuber-regium* (Fries) Singer and *Lentinus subnudus* (Berk) – Nigerian Edible Mushrooms. *Advances in Food Sciences* Vol. 27 No. 2: 61 – 64.
- (9) **Adenipekun, C.O.** and Gbolagade, J.S. (2006). Nutritional requirements of *Pleurotus florida* (Mont.) Singer. *Pakistan Journal of Nutrition* 5(6): 597 – 600.

- (10) **Adenipekun, C.O.** and Kassim, L. (2006). Effects of spent engine oil on the growth parameters and moisture content of *Celosia argentea*. *Nigeria Journal of Botany* Vol. 19 No. 2: 318 – 324.
- (11) **Adenipekun, C.O.**, Oyetunji, O.J. and Kassim, L. (2008). Effect of spent engine oil on the growth parameters and chlorophyll content of *Corchorus olitorius* Linn. *The Environmentalist* Vol. 28 No. 4: 446 – 450.
- (12) **Adenipekun, C.O.** (2008). Bioremediation of engine-oil polluted soil by *Pleurotus tuber-regium* Singer, a Nigerian white-rot fungus. *African Journal of Biotechnology* Vol. 7 No. 1: 55 – 58.
- (13) **Adenipekun, C.O.** and Omoruyi, O.M. (2008). Bioremediation of contaminated soils by *Pleurotus ostreatus* (Jacq. Fr.) P. Kumm *Nigerian Journal of Botany* Vol. 21 No. 2: 274 – 279.
- (14) **Adenipekun, C.O.** and Isikhuemhen, O.S. (2008). Bioremediation of engine oil polluted soil by the tropical white rot fungus, *Lentinus squarrosulus* Mont. Singer. *Pakistan Journal of Biological Sciences* Vol. 11 No.2: 1634 – 1637.
- (15) **Adenipekun, C.O.**, Oyetunji, O.J. and Kassim, L. (2009). Screening of *Abelmoschus esculentus* (L. Moench) for tolerance to spent engine oil. *Journal of Applied Biosciences* Vol. 20: 131 – 137.
- (16) **Adenipekun, C.O.** and Fasidi, I.O. (2009). Assessment of heavy metals concentrations in some wild mushrooms in Nigeria. *Nigerian Journal of Mycology*. Vol. 2: 144 – 153.
- (17) Isikhuemhen, O.S. **Adenipekun, C.O.** and Ohimain, E. (2010). Preliminary studies on mating and improvement strain selection in the tropical culinary medicinal mushroom, *Lentinus squarrosulus* Mont. (*Agaricomycetales*). *International Journal of Medicinal Mushrooms* Vol. 12 No. 2: 177 – 183.
- (18) Jonathan, S.G., Akinfemi, A. and **Adenipekun, C.O.** (2010). Biodegradation and *in-vitro* digestibility of maize husks treated with edible fungi (*Pleurotus tuber-regium* and *Lentinus subnudus*) In Nigeria. *Electronic Journal of Environmental, Agricultural and Food Chemistry* (ISSN 1579-4377) Vol. 9 No. 4: 742 – 750.
- (19) **Adenipekun, C.O.** and Oyetunji, O.J. (2010). Nutritional values of some tropical vegetables. *Journal of Applied Biosciences*, Vol. 35: 2294 – 2300.
- (20) Adesina, F., Fasidi, I.O. and **Adenipekun, C.O.** (2011). Cultivation and fruit body production of *Lentinus squarrosulus* Mont. Singer on bark and leaves of fruit trees supplemented with agricultural wastes. *African Journal of Biotechnology* Vol. 10 No. 22: 4608 – 4611.
- (21) **Adenipekun, C.O.**, Olanrewaju, O.O. and Ogunjobi, A.A. (2011). Bioaccumulation of heavy metals and nutrient contents by two white rot fungi in crude oil polluted soils. *Researcher* Vol. 3 No. 5: 13 – 20.

- (22) **Adenipekun, C.O.**, Ogunjobi, O.O. and Ogunseye, O.A. (2011). Management of polluted soils by a white-rot fungus, *Pleurotus pulmonarius*. Assumption University *Journal of Technology* Vol. 15 No. 1: 57 – 61.
- (23) **Adenipekun, C.O.** and Lawal, Y. (2011). Mycoremediation of crude oil and palm kernel sludge contaminated soils by *Pleurotus pulmonarius* Fries (Quelet). *Nature and Science*. Vol. 9 No. 9: 125 – 131.
- (24) Isikhuemhen, O.S., Mikiashvilli, N.A., **Adenipekun, C.O.**, Ohimain, E.I. and Shahbazi, G. (2011). The tropical white rot fungus, *Lentinus squarosulus*. Mont. Lignocellulolytic enzyme activities and sugar release from corn stalk under solid state fermentation. *World Journal of Microbiology and Biotechnology*. Vol. 28 No. 5: 1961 – 1966.
- (25) Lawal, R., **Adenipekun, C.O.** and Isikhuemhen, O.S. (2011). Effect of additives on the cultivation of *Auricularia auricula* (St. Amans) on *Mansonia altissima* (A. chev) A. chev. Sawdust. *Advances in Food Sciences*. Vol. 33 No. 4: 199 – 204.
- (26) **Adenipekun, C.O.**, Olanrewaju, O. and Jonathan, S.G. (2011). Treatment of crude oil contaminated soil with two oyster mushrooms *Pleurotus pulmonarius* Fries (Quelet) and *Pleurotus ostreatus* (Jacq. Fr). Kumm. *Journal of Science Research*, Vol. 10 No. 1: 59 – 66.
- (27) **Adenipekun, C.O.**, Ejoh, O.E. and Ogunjobi, A.A. (2012). Bioremediation of cutting fluids contaminated by *Pleurotus tuber-regium* Singer. *The Environmentalist* Vol. 32 No. 1: 11 – 18.
- (28) **Adenipekun, C.O.**, Okunlade, O.A. and Ogunjobi, O.A. (2012). Effect of *Pleurotus tuber-regium* Singer on degradation of wood and maize stovers. *Journal of Applied Biosciences* Vol. 51: 3633 – 3641.
- (29) **Adenipekun, C.O.** and Okunlade, O.A. (2012). Biodegradation of rattan wood and maize stovers by *Pleurotus ostreatus*. *Nature and Science* Vol. 10 No. 5: 49 – 57.
- (30) **Adenipekun, C.O.** (2012). Effect of *Pleurotus ostreatus* (Jacq. Fr.) P. Kumm and *Lentinus squarosulus* (Mont.) Singer on spent groundnut oil polluted soil. *Nigerian Journal of Mycology* Vol. 4: 30 – 38.
- (31) Ejoh, O.E., **Adenipekun, C.O.** and Ogunjobi, A.A. (2012). Effect of *Pleurotus tuber-regium* Singer and microorganisms on degradation of soil contaminated with spent cutting fluids. *New York Science Journal* Vol. 5 No. 10: 121 – 128.
- (32) **Adenipekun, C.O.** and Lawal, R. (2012). Uses of mushrooms in bioremediation: A review. *Biotechnology and Molecular Biology Reviews* 7(3): 62 – 68.
- (33) **Adenipekun, C.O.** and Dada, O.J. (2013). Biodegradation of three agricultural wastes by a white-rot fungus. *Pleurotus pulmonarius* (Fries) Quelet. *Nature and Science* Vol. 11 No. 2: 19 – 25.

- (34) **Adenipekun, C.O.**, Ayanleye, O.O. and Oyetunji, O.J. (2013). Bioremediation of soil contaminated by diesel oil using *Pleurotus pulmonarius* Fries (Quelet) and its effects on the growth of *Corchorus olitorius* (L.). *Journal of Applied Biosciences* Vol. 68: 5366 – 5373.
- (35) **Adenipekun, C.O.**, Ipeaiyeda, A.R. and Olayonwa, A.J. (2013). Bioremediation of soil contaminated with spent and fresh cutting fluids by *Pleurotus pulmonarius* (Fries) Quelet. *African Journal of Biotechnology* Vol. 12 No. 42: 6091 – 6097.
- (36) **Adenipekun, C.O.**, Isikhuemhen, O.S. and Ohimain, E.I. (2014). Studies on biomass, exopolysaccharide production and lignocellulolytic enzyme activities of *Lentinus squarrossulus* Mont. in submerged fermentation. *Nigerian Journal of Botany* Vol. 27 No. 1: 141 – 153.
- (37) **Adenipekun, C.O.**, Ipeaiyeda, A.R. and Egbewale, S.O. (2014). Mycoremediation of spent and fresh cutting fluids polluted soil with a white rot fungus *Pleurotus ostreatus* (Jacq.) Fr. P. Kumm. *Nigeria Journal of Mycol.* 6:144 – 159.
- (38) **Adenipekun, C.O.**, Ipeaiyeda, A.R., Olayonwa, A.J. and Egbewale, S.O. (2015). Biodegradation of Polycyclic Aromatic Hydrocarbons in Cutting Fluids Contaminated Soils by *Pleurotus ostreatus* and *Pleurotus pulmonarius* (Fries) Quelet. *African Journal of Biotechnology* Vol. 14 No. 8: 661 – 667.
- (39) **Adenipekun, C.O.** and Aramide, F.A. (2015). Influence of wheat bran on degradation of agricultural wastes by a white-rot fungus *Lentinus squarrossulus* (Mont) Singer. *Nigerian Journal of Ecology* Vol. 14: 13 – 20.
- (40) **Adenipekun, C.O.**, Lawal, R. and Isikhuemhen, O.S. (2015). Effect of growth supporting additives on the performance of *Auricularia auricula* on *Mansonia altissima*. A. chev. sawdust. *International Food Research Journal* Vol. 22 No. 5: 2167 – 2173.
- (41) **Adenipekun, C.O.** and Omolaso, P.O. (2015). Comparative study on cultivation yield performance and proximate composition of *Pleurotus pulmonarius* (Fries). Quelet on rice straw and banana leaves. *World Journal of Agricultural Sciences* Vol. 11 No. 3: 151 – 158.
- (42) **Adenipekun, C.O.**, Gabriel, T. and Korodo, O.S. (2015). The influence of substrate type, supplement and its composition levels in quality and yield in *Pleurotus pulmonarius*. *Nigerian Journal of Mycology* Vol. 7: 141 – 152.
- (43) Onagharakpote, E.E., **Adenipekun, C.O.** and Oyetunji, O.J. (2015). Bioremediation of spent diesel-oil contaminated soil by *Pleurotus ostreatus* (Jacq). Fr. Kumm. *Journal of Science Research* 14: 117 – 124.
- (44) Onifade, S.R., Alimba, C.G., **Adenipekun, C.O.** and Bakare, A.A. (2016). White-rot fungus (*Pleurotus pulmonarius*) cultivated on lead contaminated rice straw induced haematotoxicity and lead accumulation in liver and kidney of Wistar rats. *Journal of Drug Metabolism and Toxicology* 7:2 doi 110.41172/21157.7609.1110002110.

- (45) Wakil, S.M., Aladekoyi, O.J., Fasiku, S.A. and **Adenipekun, C.O.** (2017). Production of bioethanol from lignocellulosic material. *Nigerian Journal of Science* 51:23-35.
- (46) Odunmbaku, O.K. and **Adenipekun, C.O.** (2018). Cultivation of *Pleurotus ostreatus* (Jacq). Fr. Kumm. on *Gossypium hirsutum* Roxb (Cotton waste) and *Gmelina arborea* L. sawdust *International Food Research Journal* 25(3).1140-1145.
- (47) Ekun, V.S., **Adenipekun, C.O.**, Ogunkanmi, L.A. and Ojuederie, O.B. and Igwe, D.O. (2018). Molecular characterization of *Auricularia* spp. from Southwestern Nigeria using RAPD markers. *Nigerian Journal of Biotechnology* 35:34-43.
- (48) Nwafor, S.O. and **Adenipekun, C.O.** (2018). Evaluation of digestibility and nutritive potentials of *Citrus sinensis* and *Musa parasidica* biologically treated with three white-rot fungi. *Journal of Applied Biosciences* 128:12891-12900.
- (49) Ijimbili, S.B. and **Adenipekun, C.O.** (2018). Phytochemical screening and antitoxidant activity of cultivated *Ganoderma lucidum* P. Karsten. *Nigerian Journal of Mycology* 10:17-30.
- (50) Sobowale, A.A., Atoyebi, F., and **Adenipekun, C.O.** (2018). Fungal incidence and growth of the *Pleurotus* species on sawdust of *Ceiba pentandra* (Linn.) Gaertn and *Ficus mucoso* Welw. (softwood) *Journal of Plant Pathology and Microbiology* 9.8doi.10:4712/ 2157-7471.1000448.
- (51) Ejoh, E.O., **Adenipekun, C.O.**, Olowoyo, J.O. and Ogunjobi, A.A. (2018). Determination of heavy metal concentrations in transformer oil polluted soil inoculated with *Pleurotus tuber-regium* and *Lentinus squarrosulus* Nat. Sci. 16(10):48-54.
- (52) Olatunji, I.S., Sobowale A.A. and **Adenipekun, C.O.** (2019). Abilities of *Tectona grandis* and *Celtis zenkeri* (Hardwood) sawdusts as substrates of *Pleurotus* species and their indigenous fungi. *Journal of Experimental Agriculture International* doi 10.97341.v34, 130165.
- (53) Awoyemi, D.B., **Adenipekun, C.O.** and Sobowale, A.A. (2019). Effect of storage on nutritional composition and aflatoxin quantity in selected edible mushrooms. *Journal of Science Research* 18: 71 – 79.
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- (55) Ipeaiyeda, A.R., **Adenipekun, C.O.** and Oluwatola Oluwole (2020). Bioremediation potential of *Ganoderma* (Curt:Fr) P.Karsten to remove toxic metals from abandoned battery slag dumpsite soil and immobilization of metal absorbed fungi in bricks. *Cogent Environmental Science*. 6:1: 1847400.
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- (f) **Articles already accepted for publication:**
Nil
- (g) **Articles awaiting publication:**
- (74) Idowu, O., Adeyi and **Adenipekun, C.O.** (2026). Analysis of heavy metals in mushrooms from dumpsites and its health effect on albino wistar rats. (in press) .
- (75) Ajibola, F., **Adenipekun, C.O.**, and Ogbole (2026). Cytotoxicity, antioxidant and *in vitro* enzyme inhibitory enzyme activities of *Marasimus siccus* and *Tricholoma requeste*. (in press) .
- (76) Awodiran F.T. and Adenipekun, C.O. (2026). Cultivation OF *Pleurotus pulmonarius* (Fr.) Quel. *Ganoderma sessile* Murrill. on agricultural wastes. *Journal of Tropical Forest Science* (in press).
- (77) Oduola C.O., Adenipekun C.O. and Ipeaiyeda A.R. (2026). Biodegradation potential of *Ganoderma sessile Murrill* on contaminated soil from mechanic workshop .*BMC Environmental Science* (in press) .

(h) Technical Reports and Monographs:

Training on Mushroom production and post harvest technique.. Lagos State Agriculture Development Authority, Feb. 20th and 21st, 2008 (Eastern Zone) LSADA Conference Room, Lagos.

XI. Major Conferences Attended with (out) Papers Presented:

- (1) 15th Annual Conference of the Mycological Society of Nigeria. Olusegun Agagu University of Science and Technology, Okitipupa, Ondo State, Nigeria. “Fungal frontiers in a sustainable world: Innovation, exploitation and future perspectives ”31 August - 3,September, 2025.
- (2) 14th Annual Conference of the Mycological Society of Nigeria. Federal University, Lokoja. “Fungi in the amelioration of bio-environmental challenges and rejuvenation of global economy”. 15-19 September,2024.
- (2) 12th Annual Scientific Conference of the Mycological Society of Nigeria, Open University, Abuja. “Role of Mycology in Post-Covid Economic Recovery, Food Security Environment and Health. “Bioremediation of Spent Engine-Oil Contaminated soil using *Pleurotus ostreatus* in Jacq. C. Kumm” 8th – 11th October, 2023.
- (3) Faculty of Science International Conference, University of Ibadan “Responsible Conduct of Research of Research. Faculty of Science Lecture Theatre, University of Ibadan. May 3 – 5, 2023.
- (4) Plenary Speaker “Mushroom for Safe Feed for Animals”. 10th International Conference on Mushroom Biology and Mushroom Product. 2023 (ICMBMP 2023) “Mushrooms for Planetary Health”, University of Malaysia, Kuala Lumpur, Malaysia. 15 – 16 March, 2023. (online presentation) .
- (5) 12th Annual Conference of the Mycological Society of Nigeria. October 24 , 2021.
- (6) The Inaugural International Society for Mushroom Science e-Congress. 14- 17 September, 2021.
- (7) 54th Annual (Hybrid) Conference and 60th Anniversary Celebration of the Science Association of Nigeria” Ölüyole 2021”.Securing the Nigerian Environment through Science, Technology and Innovation (STI).University of Ibadan.20-24 June, 2021.
- (8) Organization for Women in Science in Developing World Nigeria Chapter First Webinar Series.Nov.5, 2020.
- (9) OWSD Ghana-CSIR Webinar on Conducting Excellent and Innovative Research Despite the Pandemic. October 13, 2020.
- (10) 2020 Mycological Society of America First Virtual Meeting” Mycology from the Cloud”. July 21-22, 2020.
- (11) 11th Annual Scientific Conference of the Mycological Society of Nigeria. “Fungi in the Industries”. Rivers State University, Port Harcourt, Nigeria. October 6-9, 2019.
- (12) 52nd Annual Conference of Science Association of Nigeria, Lagos, Nigeria. “Evaluation of Digestibility and Nutritive Potentials of *Citrus sinensis* and *Musa parasidica* biologically treated with three white rot fungi.” April 16 – 19, 2018.

- (13) The 9th Annual Conference of Mycological Society of Nigeria, Abia State University. “Fungi: A Key to Food Security” 10th – 13th December, 2017.
- (14) The 9th International Medicinal Mushrooms Conferences’ Palermo, Italy. “Growth yield and nutritional quality of two oyster mushrooms (*Pleurotus pulmonarius* and *P. ostreatus*) grown on different substrates supplemented with wheat bran”. September 24-29, 2017.
- (15) 3rd International Conference on Scientific Research in Nigeria “Diversification of Nigeria’s Economy through Science”. Faculty of Science, University of Ibadan, Nigeria. 16 – 19 May, 2017.
- (16) 23rd International Conference and Exhibition, Botanical Society of Nigeria, University of Lagos, Lagos, Nigeria. “Biodegradation of Spent Diesel oil Contaminated Soil by *Pleurotus ostreatus* (Jacq. Fr.) P. Kumm, a white-rot fungus” August 16 – 20, 2015.
- (17) 2nd International Conference on Scientific Research and Innovation. Faculty of Science, University of Ibadan, Ibadan, Nigeria. “White rot fungus *Pleurotus pulmonarius* cultivated on land contaminated rice straw induced haemototoxicity and lead accumulation in liver and kidney of Wistar rats.” March 16 – 20, 2015.
- (18) British Mycological Society, Autumn Open Meeting, Jodrell Laboratory, Kew Gardens, London. November 29, 2014.
- (19) Society of Biology, United Kingdom. Inaugural one-day conference “Biology Now” in partnership with BBSRC November 17, 2014, Charles Darwin House, London.
- (20) 7th Annual Conference of the Mycological Society of Nigeria, UNIBEN, Nigeria. “Influence of Wheat Bran as an additive on degradation of agricultural wastes” November 9 – 12, 2014.
- (21) 82nd Annual Meeting of the Mycological Society of America, Michigan, USA. “Biodegradation of Polycyclic Aromatic Hydrocarbons (PAHs) in spent and fresh cutting fluids polluted soil by a white rot fungus *Pleurotus ostreatus* (Jacq.) Fr. Kumm” June 8 – 12, 2014.
- (22) 49th Annual Conference of the Science Association of Nigeria, University of Ilorin, Nigeria, “Production of Bioethanol from Lignocellulosic Waste Materials” April 27 – May 11, 2014.
- (23) British Mycological Sociology Annual Scientific Meeting, Cardiff, U.K. Mycoremediation of spent and fresh cutting fluid polluted soil by a white-rot fungus *Pleurotus ostreatus* (Jacq.) Fr. P. Kumm. September 10 – 13, 2013.
- (24) 7th International Medicinal Mushrooms Conference, Beijing, China. “Biodegradation of Polycyclic Aromatic Hydrocarbons in cutting fluids contaminated soil by *Pleurotus pulmonarius* (Fries) Quelet. August 25 – 29, 2013.
- (25) 1st International Conference on Science and Sustainable Development in Nigeria “Bioremediation of soil contaminated with spent and fresh cutting fluids by *Pleurotus*

- pulmonarius* (Fries) Quelet”, (Faculty of Science, University of Ibadan, Ibadan, Nigeria). May 13 – 17, 2013.
- (26) 80th Annual Meeting of the Mycological Society of America, New Haven, Connecticut, USA. “Effect of *Pleurotus tuber-regium* Singer and microorganisms on degradation of unsterilized soil contaminated with spent cutting fluids,” July 15 – 18, 2012.
 - (27) 3rd African Society of Edible and Medicinal Mushrooms, Windhoek, Namibia. “Biodegradation of rattan wood and maize stovers by *Pleurotus ostreatus* (Jacq. Fr.) P. Kumm June 24 – 28, 2012.
 - (28) 21st Annual Conference of Botanical Society of Nigeria, Obafemi Awolowo University, Ife. “Studies on biomass, exopolysaccharide production and lignocellulolytic enzymes activities by *Lentinus squarrosulus*” Mont. in submerged fermentation of milled corn stover” June 3 – 7, 2012.
 - (29) 46th Annual Conference of Science Association of Nigeria, Ahmadu Bello University, Zaria, Nigeria. “Treatment of Crude Oil Contaminated Soil with two oyster mushrooms *Pleurotus pulmonarius* Fries Quelet and *Pleurotus ostreatus* Jacq. Fr (P. Kumm)” July 24 – 28, 2011.
 - (30) 20th Annual Conference of the Botanical Society of Nigeria, Nnamdi Azikwe University, Awka, Anambra State, Nigeria. “Mycoremediation of Crude Oil and Palm Kernel Contaminated Soils by *Pleurotus pulmonarius* (Fries Quelet),” June 6–9, 2011.
 - (31) 5th International Medicinal Mushrooms Conference, Nantong, China. “Mating Pattern and Improved Selection Studies on the Tropical Mushroom *Lentinus squarrosulus* (Mont.) September 5 – 8, 2009.
 - (32) 2nd African Conference on Edible and Medicinal Mushrooms (ACEEM) Accra, Ghana. March 24 – 28, 2009.
 - (i) Invited plenary lecture titled “Uses of Mushrooms in Bioremediation”.
 - (ii) Lignolytic Enzymes and Polysaccharide Production by *Lentinus squarrosulus* (Mont.) Singer in Liquid and Solid State Fermentation on Milled Corn Stack.
 - (33) 3rd National Conference of Mycological Society of Nigeria (MYCOSON), University of Ibadan. Effect of Additives on the Yield and Proximate Composition of *Auricularia auricula* (St. Amaris) on *Mansonia altissima* (A. Chev.) A. Chev. Sawdust. November 23 – 26, 2008.
 - (34) 17th Congress of the International Society for Mushroom Science and Cultivation of Edible and Medicinal Fungi, Cape Town, South Africa. “Bioaccumulation of Heavy Metals and Enzyme Activities of *Pleurotus ostreatus*”. May 20 – 24, 2008.
 - (35) Training Workshop in Truffle and Fungal Biotechnology, Mycology Lab. (Duke University). “Mushroom and Fungal Biotechnology Laboratory (North Carolina A & T State University, Greensboro, USA. May 14 – June 25, 2007).

- (36) 16th Annual Conference of Botanical Society of Nigeria, University of Benin, Benin, Nigeria. Proximate Analysis of some Nigerian Vegetables *Lycopersicon esculentus*, *Abelmoschus esculentus* Lin and *Solanum macrocarpon* Lin. March 11 – 15, 2007.
- (37) 3rd International Medicinal Mushrooms Conference, Washington, USA. “Mycoremediation of Engine-polluted soil by *Lentinus squarrosulus* Mont, an indigenous white-rot fungi. October 12 – 17, 2005.
- (38) 41st Annual Conference of the Science Association of Nigeria, University of Sokoto, Sokoto, Nigeria. “Lipid Protein Carbohydrate and Mineral Contents of some Nigeria Fruits. April 26 – 29, 2005.

Names and Addresses of Referees:

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RESEARCH FOCUS

My field of interest is Mushroom biotechnology with particular interests in cultivation, nutritional values, and degradation of agricultural wastes and bioremediation of polluted soils.

Owing to the nutritional importance of mushrooms to humans, I studied mushrooms which may be beneficial to protein-malnourished low income group, as well as ideal for diabetic patients in view of the low carbohydrate value. The information generated from this cultivation research study has led to construction of a mushroom house towards commercial cultivation of edible and nutritionally rich species. An aspect of my work focused on the cultivation of local and exotic mushroom species such as *Lentinus squarrosulus*, *Pleurotus ostreatus*, *P. pulmonarius* and *Auricularia auricular* on different agricultural wastes thus serving as cheap source of protein for low income group of people in the community. The increasing concern of indiscriminate disposal of wastes in the environment has made me to focus on assessing the biodegradation ability of mushroom. Research has shown that these wastes can be converted to animal feeds. My study on lignin degrading peroxidase enzymes in *Lentinus squarrosulus* using solid state fermentation was the first report in this regard. The finding of my research studies has led to the development of an effective methodology that is presently being used. This has therefore reduced the menace of agricultural wastes. This is a biological conversion of turning waste to wealth.

Bioremediation of polluted soils by mushrooms is another area of my research work. Both local and exotic species could bioremediate different types of soils polluted with materials such as crude oil, cement, diesel oil, spent groundnut oil, palm kernel sludge. The findings of the above studies led to the development of a technique which makes bioremediation/biodegradation simpler and easier to conduct. An improvement in the nutrient contents of the soil and degradation of hydrocarbons into simpler components owing to its ability to secrete extracellular enzymes establishes this fact. *Pleurotus* species have been found to degrade PAH's fractions in both spent and fresh cutting fluids and such biodegraded soils can provide a cheap and sustainable means of reverting such soils after damage by cutting fluids and can be subsequently used for agricultural purposes. The ability of some mushrooms in investigated confirmed the ability of these mushrooms to bioaccumulate heavy metals from polluted soils and portrays their potential of solving oil spillage and attendant depletion of nutrients in such soils.

Some of my studies used carbon sources from banana leaves, sawdust, rice straw, cotton waste, logs of wood from different tree species for cultivation of different mushrooms. An improvement in the yield of the edible mushrooms was observed when wheat and rice bran, brewers grain were added as supplement to the waste. I have been able to determine the best supplements levels required to enhance growth, higher mushroom yields and nutritional contents of different species.

I have also carried out plant physiological studies on effects of spent engine oils on growth parameters of *C. argentea*, *C. olitorius* and *Abelmoschus esculentus*. In view of the fact that spent engine oils are indiscriminately discharged into the environment, plant growth and yield of vegetables have been adversely affected hence appropriate disposal of these oils should be taken seriously by stakeholders. Following the amelioration of diesel polluted soils by, farmers can pre-cultivate their polluted farmlands with mushrooms and such soils can then mushrooms become useful for the cultivation of vegetables.



02-02 -2026

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Clementina O. Adenipekun Ph.D.

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Date