



**Name** : **ODEKU, Oluwatoyin Adepeju (Nee Adeyemo)**  
**Designation** : Adjunct Faculty  
**Qualification** : B.Pharm., PharmD, MSc., PhD,  
**Specialization** : Pharmaceutics and Pharmaceutical Technology  
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**Experience** : 28 years

Professor Odeku graduated with a Bachelor of Pharmacy (B.Pharm) from the University of Ife now Obafemi Awolowo University, Ile-Ife, Nigeria in and obtained her M.Sc. and PhD degrees from the University of Ibadan, Ibadan, Nigeria. She joined the service of the University of Ibadan as an Assistant lecturer in 1993 and rose to become a Professor of Pharmaceutics in the year 2008. Professor Odeku had her postdoctoral training at the Hebrew University of Jerusalem School of Pharmacy, Jerusalem, Israel in 2001-2002.

She has served as Dean, Faculty of Pharmacy University of Ibadan, Ibadan, Nigeria (2017-2021); Director of the Office of International Programmes (2015-2017); Director Servicom (2012-2015); Head of the department of Pharmaceutics and Industrial Pharmacy, University of Ibadan, Nigeria (2008-2012). Member of the University of Ibadan Senate since 2008.

She was also a Visiting Scientist to the University of Manchester School of Pharmacy, Manchester, UK; Shanghai Institute of Materia Medica, Shanghai China; Martin-Luther University, Halle, Germany and the University of Wurzburg, Germany in 2003, 2005, 2006 and 2009 respectively. She has been a visiting Professor to the University of Bonn, Germany from 2011 till date, and the Kwame Nkrumah University of Science and Technology, Ghana. She has also been a recipient of many awards including UNESCO/Israel Co-Sponsored Post-Doctoral Fellowship, MacArthur Foundation Grant, CAS-TWAS Visiting Scholar Fellowship, TWAS Research Grants, DAAD visiting Fellowship, Alexander von Humboldt Foundation Fellowships and the CV Raman Senior Fellowship. She is a registered Pharmacist and a Fellow of the Pharmaceutical Society of Nigeria, the Nigerian Association of Pharmacists in Academia and a Fellow of the Nigerian Academy of Pharmacy, Nigerian Academy of Science, West African Postgraduate College of Pharmacist (WAPCP), and the West Africa Research Association (WARA).

**Research areas:**

Natural polymers,  
Drug delivery,  
Formulation of herbal medicines

Nanotechnology.

## Research

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[https://www.humboldt-foundation.de/en/connect/ambassador-](https://www.humboldt-foundation.de/en/connect/ambassador-scientists#:~:text=The%20Alexander%20von%20Humboldt%20Foundation's,sponsorship%20programmes%20and%20international%20network.)

[scientists#:~:text=The%20Alexander%20von%20Humboldt%20Foundation's,sponsorship%20programmes%20and%20international%20network.](https://www.humboldt-foundation.de/en/connect/ambassador-scientists#:~:text=The%20Alexander%20von%20Humboldt%20Foundation's,sponsorship%20programmes%20and%20international%20network.)

## Scholarships, Fellowships and Grants:

### (i) Scholarships and Fellowships

- 2021 Humboldt Alumni Award for innovative networking initiatives
- 2021 Teacher Exchange to Aleksandras Stulginskis University (ASU) Lithuania
- 2019 Teacher Exchange to Maseno University, Kisumu, Kenya
- 2017 Teacher Exchange to Aleksandras Stulginskis University (ASU) Lithuania
- 2016 Alexander von Humboldt Foundation (AvH) Re-visit Fellowship
- 2015 TETFUND Conference Grant
- 2015 AAU Staff Exchange Award
- 2012 West African Research Association (WARA) Travel Grant
- 2012 NUC Award for supervising the best Thesis in Pharmacy for the year 2008
- 2012 CV Raman International Fellowship for African Researchers
- 2009 DAAD Visiting Scholar Fellowship
- 2008 Alexander von Humboldt Foundation (AvH) Return Fellowship
- 2006 CSIR/ TWAS Postdoctoral Research Fellowship
- 2006 Georg Foster Fellowship of the Alexander von Humboldt Foundation
- 2004 CAS-TWAS Visiting Scholar Fellowship
- 2003 John D. and Catherine MacArthur Foundation Staff Development Grant
- 2000 UNESCO/Israel Co-Sponsored Post-Doctoral Fellowship

### (ii) Research Grants

- 2021 Alexander von Humboldt Foundation Equipment subsidy Grant, Euro 20,000 (Ref 3.4 – 8151 – 21 003)
- 2021 Alexander von Humboldt Foundation Digital Cooperation Fellowship, Project title: Development of Directly Compressible Excipients from Cassava Peels and Bean (Cowpea) Pods for the Formulation of Orally Disintegrating Tablets, Euro 34,469 (ODTs) (Ref. 3.4 - NGA / 1121604)
- 2020 Co-Principal Investigator, DFG (Deutsche Forschungsgemeinschaft) Grants to Support the Initiation of International Collaboration, Project Title: Developing new starch-based excipients from African plants using biotechnological approaches, Euro 45,950 (Ref No. **451141319**)
- 2020 Co-Principal Investigator, TETFUND National Research Fund, Project tile: Ethnobotanical Approaches to Combat Metabolic Syndrome: A Study of two botanicals, ₦38,155,284 (Ref: TETFund/DR&D/CE/NRF/CC/18/VOL1)
- 2019 Principal Investigator, UI Research Foundation Collaborative Research Grant, Project title: Utilisation of medicinal plants and their nanoparticulate formulations as growth promoters, reproduction enhancers and anti-infective agents in *Clarias gariepinus* (African catfish) production, ₦ 10 Million

- 2018 Principal Investigator, Partnerships for Enhanced Engagement in Research (PEER) & COACH Women in Science Mentoring Program 2018-2019
- 2017 ERASMUS+ Programme, Higher Education Student and Staff Mobility Inter-institutional agreement 2017-2020
- 2017 Alexander von Humboldt Foundation Book donation grants
- 2015 Co-Principal Investigator, TETFUND National Research Fund, Project title: Genetic and Mechanistic Basis for Memory Loss from Environmental Toxins and Old Age Dementia: The Protective Role of Novel Compounds from Nigerian Indigenous Plants, ₦ 34 Million
- 2010 Principal Investigator, Research Group linkage Grant awarded by the Alexander von Humboldt Foundation, Germany in collaboration with Prof. Alf. Lamprecht of the Institute of Pharmaceutical Technology, University of Bonn, Germany. Project title: Evaluation of natural gum for the formulation of controlled release microbeads, €55,000
- 2009 Alexander von Humboldt Foundation Book donation grants
- 2008 TWAS Research Grant for the project titled: Evaluation of local starches as pharmaceutical excipients, \$10,000
- 2008 Alexander von Humboldt Foundation Book donation grants
- 2001 Co-Principal Investigator, University of Ibadan College of Medicine Research Grant Award. Project title: Formulation of halofantrine hydrochloride suppository for rectal administration.
- 2000 University of Ibadan Senate Research Grant Award SRG//COM/2000/22A. Project title: Evaluation of ginger starch as binder and disintegrant in paracetamol tablet formulation.

## Recent Publications

### a. Articles that have already appeared in learned journals

1. Odeku OA, Ajala TO (2021) Nanodelivery systems for Alzheimer's disease: Prospects of natural therapeutic agents. *Journal of Applied Pharmaceutical Science* 11 (11), 001-010
2. Ajala TO, Abraham A, Keck CM, Odeku OA, Elufioye TO, Olopade JO (2021) Shea butter (*Vitellaria paradoxa*) and *Pentaclethra macrophylla* oil as lipids in the formulation of Nanostructured lipid carriers. *Scientific African*, 13: e00965
3. Ajala, T. O., Moshood, O. T., **Odeku**, O. A. (2021) Formulation of floating metronidazole microbeads using *Terminalia mantaly* gum as polymer. *British Journal of Pharmacy*, 6 (2): doi: <https://doi.org/10.5920/bjpharm.854>
4. **Odeku OA**, Adisa R, Okhamafe A. Hospital pharmacists' awareness, knowledge, perception, and use of government policy and guidelines on pain management in Nigeria. *West African Journal of Pharmacy*. 31 (2): In press
5. Okekunle MO, Akin-Ajani OD, Ekpukpon BL, **Odeku OA**, Olu-Owolabi BI, Adebowale KO. Intra and extra-granular disintegrant properties of modified underutilised red lima bean starch in paracetamol tablet formulation. *Brazilian Journal of Pharmaceutical Sciences*. Accepted
6. Singh I, Dastidar DG, Ghosh D, Sengupta A, Ajala TO, **Odeku OA**, Singh PB, Sharma M. (2021) Bioadhesive films as drug delivery systems. *Drug Delivery Letters*. 11: 2 - 15. <https://doi.org/10.2174/2210303110999201105154422>

7. \*Alabi, C. O., Singh, I., **Odeku**, O. A. (2020) Evaluation of starch-clay composites as a pharmaceutical excipient in tramadol tablet formulations. *Polymers in Medicine*. 50 (1): 33 – 40. doi: 10.17219/pim/128473
8. \*Ajala, T. O., Agboola, O. S. N., **Odeku**, O. A. (2020) Antimicrobial activity of *Ficus exasperata* (Vahl) leaf extract in clinical isolates and its development into herbal tablet dosage form. *Journal: Journal of Medicinal Plants for Economic Development*. 4 (1): a95
9. \*Akin-Ajani, O. D., **Odeku**, O. A., Olumakinde-Oni, O. (2020) Evaluation of the mechanical and release properties of lactose and microcrystalline cellulose and their binary mixtures as directly compressible excipients in paracetamol tablets. *Journal of Excipients and Food Chemicals*. **11** (2): 42 – 52
10. \*Dike D.N., Ajala T.O., **Odeku O.A.**, Afolabi J.M., Oyagbemi A.A. and Oyeyemi M.O. (2020) The Pharmaceutical Properties, Microbial Quality, in – vivo Aphrodisiac Effect and Safety of Some Herbal Medicinal Products Sold in South-West Nigeria. *Afr. J. Biomed. Res.* 23 (2): 155- 164
11. \*Issa OR, Ajala, TO, **Odeku**, OA, Oyagbemi, AA, Oridupa, OO (2019) Formulation and *in vivo* anti-inflammatory properties of diclofenac multiple emulsions prepared using *Vitellaria paradoxa* fat (Shea Butter). *African Journal of Medicine and Medical Sciences*, 48 (3): 307 – 317.
12. \***Odeku OA**, Adisa R, Adetunji OA, Durowaiye MA and Kotila OA (2019) Towards the development of a blueprint for health security in Nigeria by 2050: A review of drug development, supply of quality medicines and treatment issues. *African Journal of Medicine and Medical Sciences*, 48 (1): 185-193.
13. Aderemi SA, Sonibare MA, Gbadamosi IT, Olaleye SK, **Odeku OA**, Adegoke AO and Adejumo AG (2019) Validation of Ewé'fá as Herbal Recipes for Reproductive Health Problems (Rhps) among the Yorùbá of South-Western Nigeria. *Advances in Pharmacology & Clinical Trials*, 4 (3): 000167. <https://medwinpublishers.com/APCT/APCT16000167.pdf>
14. \*Agidigbi T. S., Lawal T. O., Ajala T. O., **Odeku O. A.** and Adeniyi B. A. (2019) Antifungal activities of an extract and cream formulation of *Cola millenii* K. Schum. In dermatophyte-infected Wistar rats. *European Journal of Pharmaceutical and Medical Research*. 6 (4), 61-69
15. \*Akin-Ajani, O. D., Oluyemi, T. T., **Odeku**, O. A., (2019) Formulation of diclofenac sodium emulsion using *Colocynthis Citrullus* L. (Melon) seed oil. *West African Journal of Pharmacy*. 30 (2): 18 - 28
16. \*Akin-Ajani, O. D., **Odeku**, O. A., Babalola, Y. (2019) Formulation of paediatric paracetamol suppositories using shea butter and dika fat as suppository bases. *Trop J Nat Prod Res*, 3 (2):31-36

#### **b. Books/Chapters in Books already published**

17. Nketiah-Amponsah E, **Odeku OA** (2021) Contemporary Healthcare Issues in Sub-Saharan Africa - Social, Economic, and Cultural Perspectives. Lexington Books, Rowman & Littlefield Publishing Group, Inc. Maryland, USA. 282 pages. ISBN: 179363369X, 9781793633699.
18. **Odeku OA**, Ola CB (2021) Medicine Quality in West Africa: Impact of Trans-Border Trade. **In: Contemporary Healthcare Issues in Sub-Saharan Africa - Social, Economic, and Cultural Perspectives.** Nketiah-Amponsah E, Odeku OA. (Eds). Lexington Books, Rowman & Littlefield Publishing Group, Inc. Maryland, USA. pp. 23 – 38. ISBN: 179363369X, 9781793633699
19. Olorunsola E. O. **Odeku O. A** (2021) Tablets. **In: Pharmaceutics in Focus: Dosage Form Development and Manufacture.** E. O. Olorunsola (*Ed*) Ahmadu Bello University Press Limited, Zaria, Kaduna State, Nigeria. ISBN: 978-978-985-697-8
20. Akin-Ajani, O. D., **Odeku, O. A.** (2020) Gastrointestinal Bioadhesive Drug Delivery Systems & Applications. **In: Bioadhesives in Drug Delivery.** K.L. Mittal, I.S. Bakshi, J.K. Narang (Eds) pp. 432 Pages. Wiley-Scrivener, Beverly, MA. ISBN: 978-1-119-64019-6
21. **Odeku, O. A.** (2019) Innovative approaches to water resource management in Nigeria. **Water Perspectives in Emerging Countries: Modern and traditional methods of water resource management in Africa.** Eds: Ojwach, O. O., Mahlambi P. N., Kowenje, C. and Baba, G. (Eds) Curvillier Verlag, Gottingen, Germany. pp. 164 – 175. ISBN: 978-3-7369-7041-0