

## CURICULLUM VITAE

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### PERSONAL INFORMATION

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Name **Adeola Tawakalitu KOLA-MUSTAPHA**  
Sex **Female**  
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### QUALIFICATIONS

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2019 to 2019 **Pharm D**  
University of Benin, Benin City, Nigeria  
2015 to 2017 **Post Graduate Diploma in Education (PGDE)**  
University of Ilorin, Ilorin, Nigeria  
2010 to 2014 **PhD Pharmaceutics and Pharmaceutical Technology**  
De Montfort University, Leicester, UK  
2005 to 2007 **MSc Pharmaceutics and Pharmaceutical Technology (Distinction)**  
University of Lagos, Nigeria  
2000 to 2004 **Bachelor of Pharmacy (BPharm)**  
University of Lagos, Nigeria  
1992 - 1997 **BSc Pharmacology (First Class Honours)**  
University of Lagos, Nigeria

### TEACHING EXPERIENCE

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2022: **Assistant Professor/Pharmaceutics**  
Department of Pharmaceutical Sciences, College of Pharmacy, Alfaisal University, Riyadh Saudi Arabia.  
2019 to 2022: **Visiting Assistant Professor/Pharmaceutics**  
Department of Pharmaceutical Sciences, College of Pharmacy, Alfaisal University, Riyadh Saudi Arabia.  
2021: **Reader**  
Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmaceutical Sciences, University of Ilorin, Ilorin, Nigeria.  
2018 to 2021: **Senior Lecturer**  
Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmaceutical Sciences, University of Ilorin, Ilorin, Nigeria.  
**Ag. Head of Department Pharmaceutics and Industrial Pharmacy (2020/2021; 2021/2022 academic sessions)**  
2015 to 2018: **Lecturer I**  
Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmaceutical Sciences, University of Ilorin, Ilorin, Nigeria.  
2010 to 2015 **Part-time Lecturer/Technical Demonstrator**  
Leicester School of Pharmacy, De Montfort University, Leicester, UK.

### EMPLOYMENT

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2004-2005 **Intern Hospital Pharmacist**  
68 Nigerian Army Reference Hospital Yaba, Lagos, Nigeria  
2007-2009 **Superintendent Pharmacist**  
Minegem Pharmacy Lagos, Nigeria  
2010 **Dispenser**  
Leys Pharmacy, Greater Leys, Oxford, UK  
2015 **Research and Health Services Development Manager**  
Koasta Ltd T/A The Leys Pharmacy, Oxford, UK

### PROFESSIONAL MEMBERSHIPS

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1. Pharmaceutical Society of Nigeria (PSN)
2. International Pharmaceutical Federation (FIP)
3. American Association of Pharmaceutical Scientists, United States (AAPS)
4. Science Association of Nigeria (SAN), Council member, Medical Science Representative
5. Canadian Society of Pharmaceutical Scientists (CSPS)
6. The Academy of Pharmaceutical Sciences

### GRANTS AND AWARDS

1. 2017/2018 TETFUND INSTITUTION BASED RESEARCH (IBR) GRANT for the research work "Evaluation of pyrimidine analogue from *Aspergillus spp* as potential anticancer agent" Co-Researcher)
2. 2016/2017 TETFUND INSTITUTION BASED RESEARCH FUND for the research work "Characterization, antidiabetic and diuretic potentials of *Hibiscus sabdariffa* and its

commercialization” (African Centre for Herbal Research Ilorin (ACHRI) Research Group) as (Co-Researcher).

## PUBLICATIONS

1. A. Abioye, **A. Kola-Mustapha** and K. Ruparelia. (2014) Impact of *in situ* granulation and temperature quenching on crystal habit and micromeritic properties of ibuprofen-cationic dextran conjugate cristanules. *International Journal of Pharmaceutics*. **462**: 83-102.
2. A. Abioye, **A. Kola-Mustapha**, G. Chi and S. Ilya. (2014) Quantification of in situ granulation-induced changes in pre-compression, solubility, dose distribution and intrinsic in vitro release characteristics of ibuprofen-cationic dextran conjugate cristanules, *International Journal of Pharmaceutics*. **471**:453-477.
3. A. Abioye & **A. Kola-Mustapha** (2015) Controlled electrostatic self-assembly of ibuprofen-cationic dextran nanoconjugates prepared by low energy green process – a novel delivery tool for poorly soluble drugs, *Pharmaceutical Research*, 32 (6): 2110-2131.
4. A. Abioye & **A. Kola-Mustapha** (2015) Formulation studies on Ibuprofen sodium-cationic dextran conjugate: Effect on tableting and dissolution characteristics of ibuprofen. *Drug Development and Industrial Pharmacy*, 42 (1): 39 – 59.
5. A. Abioye, Sureya Issa & **A. Kola-Mustapha** (2015) Ex vivo skin permeation and retention studies on chitosan-ibuprofen-gellan ternary nanogel prepared by in situ ionic gelation technique – a tool for controlled transdermal delivery of ibuprofen, *International Journal of Pharmaceutics*, 490 (1-2): 112-130.
6. A. Abioye, R. Armitage and **A. Kola-Mustapha** (2015) Thermodynamic Changes Induced by Intermolecular Interaction Between Ibuprofen and Chitosan: Effect on Crystal Habit, Solubility and In Vitro Release Kinetics of Ibuprofen, *Pharmaceutical Research*, DOI 10.1007/s11095-015-1793-0.
7. **A. Kola-Mustapha** & A. Abioye (2015) The effect of Ibuprofen-DEAE-Dextran nanoconjugates (surfactant solubilization) on the thermal properties and in vitro drug release kinetics of ibuprofen, *The Nigerian Journal of Pharmacy*, 49 (2): 46 – 54.
8. **Adeola T. Kola-Mustapha** and Amos O. Abioye (2015) Formulation and physical characterization of Ibuprofen-DEAE-Dextran nanoconjugates via surfactant solubilization, *West African Journal of Pharmacy*, 26 (2): 1-10.
9. Okorie U., Oreagba I, Alimba C, Akinleye M and **Kola-Mustapha A.** (2015) Induction of genotoxicity by concurrent exposure to titanium dioxide and zinc oxide nanoparticles in mice, *Nigerian Medical Practitioner*, 68 (1-3): 11-17.
10. A. Abioye, G. Chi, **A. Kola-Mustapha**, K. Ruparelia, K. Beresford & R. Arroo (2016) Polymer-Drug Nanoconjugate–An Innovative Nanomedicine: Challenges and Recent Advancements in Rational Formulation Design for Effective Delivery of Poorly Soluble Drugs, *Pharmaceutical Nanotechnology*, 4 (1): 38-79.
11. **A. Kola-Mustapha** & A. Abioye (2016) Formulation and Characterization of Gellan–DEAE-Dextran Polyelectrolyte Complex Hydrogels, *West African Journal of Pharmacy*, 27 (1): 1-14.
12. **A. Kola-Mustapha**, D. Armitage & A. Abioye (2016) Development of aqueous ternary nanomatrix films: A novel ‘green’ strategy for the delivery of poorly soluble drugs, *International Journal of Pharmaceutics*, 515 (1-2): 616-631.
13. **A. Kola-Mustapha**, Ghazali Y. & Iranloye T. (2016), Antimicrobial screening of *Vernonia amygdalina* and *Calotropis procera* Methanol Leaf Extracts. *Journal of Pharmaceutical Research, Development Practice*, 1 (1):25-33.
14. Kambizi L., Bakare-Odunola M.T., Oladiji A.T., **Kola-Mustapha A.T.**, Amusa T.O., Atolani O., Njinga N.S., Quadri A.L. (2017). Protease Inhibitory, Membrane Stabilization, Phytochemical and Antioxidant Evaluations of Leaves, Seeds and Calyces of Four Selected Edible Medicinal Plants. *Cogent Chemistry*, 3: 1314064.
15. Aremu OI **Kola-Mustapha AT**, Ayotunde HT (2017). Characterization of *Celba petandra* and *Lannea kerstingii* Stem Bark Extract Creams. *Journal of Pharmaceutical and Health Sciences*, 5 (1): 71-80.
16. **A. Kola-Mustapha**, Y. Ghazali & T. Iranloye (2017), Formulation of *Vernonia amygdalina* and *Calotropis procera* Leaf Extracts into a Cream for the Management of Skin Infections. *West African Journal of Pharmacy*, 28 (2): 102-112.
17. GA Olatunji, **AT Kola-Mustapha**, OD Saliu, AB Alabi, OI Abiodun & NO Obisesan (2018). Tramadol hydrochloride delivery by regenerated cellulose nanofiber-TiO<sub>2</sub>. *Korean Journal of Chemical Engineering*, 35(3) 784-791.
18. **AT Kola-Mustapha**, AO Abioye. (2018). Synergistic effect of polymer-drug self-assembly and hydrotropic complexation on the delivery of ibuprofen. *Journal of Pharmaceutical Research, Development and Practice*. 2(1): 74-85.
19. A. Aliyu, RH Bello, MS David, HY Olufadi-Ahmed, O. Salami, **AT Kola-Mustapha** & PE. Itodo (2018): Biofilm Detection and Antibacterial Susceptibility Pattern of Isolates from In-Patients with Urinary Tract Infection in a Tertiary Hospital. *Journal of Pharmaceutical Research, Development and Practice*. 2(2):61-67.
20. Ghazali YO, Bello I & **Kola-Mustapha AT.** (2019). The use of herbal medicines amongst out-patients at the University of Ilorin Teaching Hospital (UIITH) Ilorin, Kwara State – Nigeria. *Complementary Therapies in Medicine*. 42: 158-163.

21. HY Olufadi-Ahmed, A Aliyu, MS David, **AT Kola-Mustapha** & AH Diyaolu (2019): Antibiotic Susceptibility Profile of Uropathogens isolated from pregnant women in selected hospitals in Ilorin, *Nigerian Journal of Pharmaceutical Research*. 15(1):45-51.
22. **AT Kola-Mustapha**, YO Ghazali, HT Ayotunde, SA Atunwa & SO Usman (2019). Evaluation of the antiarrheal activity of the leaf extract of *Parquetina nigrescens* and formulation into oral Suspensions. *Journal of Experimental Pharmacology*. 11:65-72.
23. **Kola-Mustapha Adeola T.** (2019). Microscopy of nanomaterial for drug delivery. In Characterization and biology of nanomaterials for drug delivery, Nanoscience and Nanotechnology in Drug Delivery. First Edition. Eds Mohapatra S. S., Ranjan S., Dasgupta N., Mishra R. K. and Thomas S. Elsevier, Amsterdam Netherlands: 265-280.
24. Tella AC., Eliagwu SE, Amali M, **Kola-Mustapha AT**, Olatunji SJ, Ishola F, Adimula VO & Oluwafemi OS (2020). Synthesis and characterization of amino and cyano-functionalized zinc-terephthalate metal-organic frameworks for loading of piroxicam drug. *Chemical Papers*. 74(7): 2287-2296.
25. **Kola-Mustapha AT**, Ayuba AA, Amali MO, Atunwa SA, Ishola F & Tella AC. (2020). An Evaluation of the Impact of Zinc and Copper Metal-Organic Frameworks (MOFs) on the Drug Release Profiles of Piroxicam. *Journal of Pharmaceutical Research, Development and Practice*. 4(1):11-19.
26. Njinga NS, **Kola-Mustapha AT**, Quadri AL, Atolani O, Ayanniyi RO, Buhari MO, Amusa TO, Ajani EO, Folaranmi OO, Bakare-Odunola MT, Kambizi L., Oladiji AT & Ebong P. (2020). Toxicity Assessment of Sub-acute and Sub-chronic Oral Administration and Diuretic Potential of Aqueous Extract of *Hibiscus sabdariffa* Calyces. *Heliyon*. 6(9): e04853.
27. **AT Kola-Mustapha**, KA. Yohanna, YO Ghazali, HT Ayotunde, (2020). Design, Formulation and Evaluation of Chasmanthera dependens Hochst and Chenopodium ambrosioides Linn based Gel for its Analgesic and Anti-inflammatory Activities. *Heliyon*. 6(9): e04894.
28. **AT Kola-Mustapha**, ET Jaiyeola, HY Olufadi-Ahmed, HT Ayotunde, YO Ghazali, (2020). Evaluation of *Zingiber officinale* Rosc. and *Ocimum basilicum* L. Essential Oils-Loaded Gel Base for the Treatment of Oral Candidiasis. *Tropical Journal of Natural Product Research*, 4(10):831-837.
29. **AT Kola-Mustapha**, FA Khalid-Salako (2021). Herbal Emulgels Incorporated with *Cola millenii* K. Schum Stem Bark Ethanol Extract Potentially for the Management of Rheumatoid Arthritis In-vitro, *Phytomedicine Plus*. 1(2): 100033.
30. **AT Kola-Mustapha**, FA Bamigboye, HY Olufadi-Ahmed, HT Ayotunde & YO Ghazali (2021). Evaluation and Formulation of the Methanol Extract and Oil of *Nigella sativa* Linn into Suppositories with Potentials in the Management of Vaginal Candidiasis. *Current Traditional Medicine*, 7, 2-0.
31. **Kola-Mustapha AT**, Ubani-Ukoma U, Ilomuanya MO & Nnamani PO (2021) The COVID-19 response in Nigeria: Adequate protection of a fragile healthcare delivery system *Nigerian Journal of Pharmacy* 55 (1): 13-19.
32. Quadri, AL, Njinga, NS, **Kola-Mustapha, AT.**, Amusa, TO., Atolani, O., Oladiji, AT., Bakare-Odunola, M.T. and Kambizi, L. (2021). Elemental composition and proximate analysis of five commonly used African medicinal plants. *Plant Archives*, 21 (Supplement 1): 1360-1366.
33. EO Ajani, FA Bamisaye, TO. Amusa, O Atolani, **AT Kola-Mustapha**, Ngaitad S. Njinga, Luqman A. Quadri, Moji T. Bakare-Odunola, Adenike T. Oladiji, and Learnmore Kambizi. (2021). Roselle *Hibiscus sabdariffa* calyces extracts modulates cardiovascular disease risk and kidney dysfunctions in diabetic rats. *Plant Archives*; 21 (Supplement 1):1350-1359.
34. Bandyopadhyay S., Abiodun OA, Ogboo BC, **Kola-Mustapha AT**, Attah, EI, Edemhanria, L., Kumari A., Jaganathan R., Adelokun NS. (2021): Polypharmacology of specific medicinal plant metabolites against SARS CoV-2 targets: Molecular dynamics evaluation of NSP9 RNA binding protein. *Journal of Biomolecular Structure and Dynamics*, 9; 1-17.
35. Ibrahim, M., **Kola-Mustapha, A.**, Adelokun, N. & Koorbanally, N. (2021). Phytoconstituents from *Markhamia tomentosa* Bind To HPV Oncoprotein with Apoptogenic Potential: A Molecular Modeling Approach. *Annals of Science and Technology*, 6(2) 28-46.
36. Katibi O. S., Aboh M. I., Salawu O. A., **Kola-Mustapha A**, Olatunji L. A. (2022). Anti-fungal activity of *Acalypha wilkesiana*: A preliminary study of fungal isolates of clinical significance. *African Journal of Infectious Diseases* 16(1), 21-30.
37. Nnamani P. O, Kenekchukwu F C., Omeje J. C., Nwachukwu L. O., Ugwu A. A., Anazodo F. I., Nwagwu C. S., **Kola-Mustapha A.T.**, Obitte N. C., Attama A. A. (2022). Development and characterization of sustained-release artemether loaded solid lipid microparticles based on mixed lipid core and a polar heterolipid. *African Journal of Pharmaceutical Research & Development*, Vol. 14 (1), 001-017.
38. Aboh M. I., Katibi O. S., Salawu O. A., Olatunji K. T., Fatokun O. T., **Kola-Mustapha A. T.**, Oladosu P. O. (2022). Preliminary study on the anti-bacterial activity of 2 cultivars of *Acalypha wilkesiana* on bacterial isolates of clinical significance. *Nigerian Journal of Pharmacy* 56 (2).
39. Adam D. R., Al Rayes N., Fatoum R., Arafeh G., Adam T. R., **Kola-Mustapha A. T.** (2022). Comparative Evaluation of Amlodipine Besylate Generic Tablet and Capsule Brands in Riyadh, Saudi Arabia. *Dissolution Technologies*, 29(4): GC9-GC21.

40. **Kola-Mustapha A. T.**, Amali MO, Atunwa SA, Ishola I, Farayola LO, Adeyeye MC. (2022). Beneficial effects of a polyherbal formulation in the management of sickle cell disease. *American Journal of Pharmacotherapy and Pharmaceutical Sciences*, 1:6.
41. **Kola-Mustapha Adeola Tawakalitu**, Taiwo Suleiman, Isiaka Abimbola Rofiat, Amao Sherifat Omowunmi, Ismail O. Ishola, Yusuf O. Ghazali, Sukurat O. Usman, (2023) Evaluation of *Terminalia macroptera* (Combretaceae) Guill. & Perr stem bark extract incorporated into an emulgel for the potential management of rheumatoid arthritis. *Scientific African*, e01557. <https://doi.org/10.1016/j.sciaf.2023.e01557>
42. **Kola-Mustapha, A. T.**, Raji, M. A., Adedeji, O., & Ambrose, G. O. (2023). Network Pharmacology and Molecular Modeling to Elucidate the Potential Mechanism of Neem Oil against Acne vulgaris. *Molecules*, 28(6), 2849. MDPI AG. <http://dx.doi.org/10.3390/molecules28062849>
43. **Kola-Mustapha AT** (2023). Efficacy of topical acne agents in the treatment of Acne Vulgaris: Insights from a meta-analysis. *Pharmacia* 70(3): 757-763. <https://doi.org/10.3897/pharmacia.70.e109952>
44. **Kola-Mustapha Adeola T**, Muhammed Olawale Abdulrahman, Ismail O. Ishola (2023). *Arctium lappa* root extract based emulgels attenuates inducible cytokines and prostaglandins formation: Potential in the management of chronic inflammatory disorders. *Scientific African* e01942 <https://doi.org/10.1016/j.sciaf.2023.e01942>
45. **Kola-Mustapha Adeola Tawakalitu** (2023). *De Novo* Design of Pimarane Diterpenoid Compounds as Potential Alternatives to Sarecycline for Acne Vulgaris Treatment. *Pharmacia* 70 (4) 1167-1176. <https://doi.org/10.3897/pharmacia.70.e113065>
46. **Kola-Mustapha Adeola T**, Miracle H Aliu, Ronke H Bello, Oluwakorede. Adedeji, Yusuf O. Ghazali. (2023). The Formulation and Evaluation of *Melaleuca alternifolia* Cheel and *Cymbopogon flexuosus* Linn Essential Oils Emulgel for the Treatment of Vulvovaginal Candidiasis. *Gels* 9(12):949. <https://doi.org/10.3390/gels9120949>
47. **Kola-Mustapha Adeola T**, Haneefah F Ibraheem, Taiwo Suleiman, Ismail O. Ishola, Sukurat O. Usman, Yusuf O. Ghazali (2023). Formulation of *Entandrophragma utile* into an Herbal Emulgel for the Management of Inflammation. *Gels* 9(12):956. <https://doi.org/10.3390/gels9120956>
48. Attah, A.F. & **Kola-Mustapha, A.T.** (2023). Protecting the endemism of threatened cyclotide-rich medicinal plants: the African experience. In: Sustainable Uses and Prospects of Medicinal Plants. First Edition. Eds Kambizi L. and Bvenura Callistus; 3-18. Published by CRC Press, Taylor and Francis, Boca Raton Florida. Available online at <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003206620-2/protecting-endemism-threatened-cyclotide-rich-medicinal-plants-alfred-francis-attah-adeola-tawakalitu-kola-mustapha>
49. **Kola-Mustapha A. T.**, Akin-Ajani O.D., Adedeji O. J, Odeku O. A. (2024) Nanodrug Delivery System for Brain Targeting. In: Nanotechnology and Drug Delivery (1st Edition, Pages 45). Jenny Stanford Publishing. <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003430407-3/nanodrug-delivery-system-brain-targeting-adeola-tawakalitu-kola-mustapha-olufunke-dorothy-akin-ajani-oluwakorede-joshua-adedeji-oluwatoyin-adepeju-odeku>
50. Elsewedy, H.S., Shehata, T.M., Genedy, S.M., Siddiq, K.M., Asiri, B.Y., Alshammari, R.A., Bukhari, S.I., **Kola-Mustapha, A.T.**, Ramadan, H.A. & Soliman, W.E. (2024). Enhancing the topical antibacterial activity of fusidic acid via embedding into cinnamon oil nano-lipid carrier. *Gels*, 10(4): 268. <https://doi.org/10.3390/gels10040268>
51. Atolani, O., Usman, M.A., Adejumo, J.O., Ayeni, A.E., Ibukun, O.J., **Kola-Mustapha, A.T.**, Njinga, N.S., Quadri, L.A., Ajani, E.O., Amusa, T.O., Bakare-Odunola, M.T., Oladiji, A.T., Alqahtani, A., Mohamed, A. & Kambizi, L., (2024). Isolation, characterization and anti-inflammatory activity of compounds from the *Vernonia amygdalina*. *Heliyon*, e29518. <https://doi.org/10.1016/j.heliyon.2024.e29518>
52. Ilomuanya, M.O., Ogundemuren, D.A., Basse, P.O., Oseni B.A., **Kola-Mustapha A.T.**, Tsamos D., Alkiviadis T., Tsouknidas A.E. and Amenaghawon A.N. (2024) Enhanced viability of *Lactobacillus* spp. via encapsulation in hyaluronan/PVA hybrid electrospun composites for vaginal drug delivery. *Futur J Pharm Sci* 10, 105. <https://doi.org/10.1186/s43094-024-00675-5>

## **PRESENTATIONS AT CONFERENCES**

1. **Kola-Mustapha A.T.**, Abioye A. O. and Schlindwein W. Drug release kinetics of Ibuprofen microparticles in carbopol gel formulations. Poster presentation at the Association of Pharmaceutical Scientists UK 3rd APS International Pharmsci Conference, University of Nottingham, United Kingdom. September 2012.
2. **Kola-Mustapha A.T.** and Abioye A.O. Release kinetics of ibuprofen from Gellan-cationic dextran conjugate hydrogels. Poster presentation at the American Association of Pharmaceutical Scientists Meeting and Exposition, San Antonio, USA. November 2013.
3. **Kola-Mustapha A.T.** and Abioye A.O. In vitro release mechanisms of Ibuprofen from cationic dextran-gellan nanoconjugates. Poster presentation at the Association of Pharmaceutical Scientists UK- Pharmsci Conference, University of Hertfordshire, Hatfield, United Kingdom. September 2014.

4. Dhariwal S., Issah S., **Kola-Mustapha A.** and Abioye A. Amplified intermolecular attraction between Ibuprofen and Chitosan; Effect on Crystal Behaviour and In-Vitro Release Kinetics of Ibuprofen. Poster presentation at the Association of Pharmaceutical Scientists UK 6th APS International Pharmsci Conference, East Midlands Conference Centre, Nottingham, United Kingdom. September 2015.
5. Abioye A.O. and **Kola-Mustapha A.T.** Thermodynamic Changes Induced by Ibuprofen - Chitosan Nanoparticle Complex: Effect on Crystal Habit, Solubility and In Vitro Release Kinetics of Ibuprofen. Poster presented at the AAPS Annual Meeting & Exposition Orlando, Florida, USA, October 2015.
6. Aremu O.I., **Kola-Mustapha A.T.** and Ayotunde H.T. Physicochemical Characteristics of *Ceiba petandra* and *Lannea kerstingii* Stem Bark Extract Creams. Poster presented at the Science Association of Nigeria (SAN) 50th Anniversary Conference, Abuja Nigeria, April 2016.
7. Ghazali Y.O., **Kola-Mustapha A. T.** and Iranloye T.A. Formulation of *Vernonia amygdalina* and *Calotropis procera* Leaf Extracts into a Cream for the Management of Skin Infections. Poster and oral presentation at the Dubai International Pharmaceuticals & Technologies Conference & Exhibition (DUPHAT), Dubai UAE, March 2017.
8. **Kola-Mustapha A. T.** and Abioye A. O. Physicochemical and dissolution properties of Ibuprofen-DEAE-Dextran Hydrotropic Solubilization. Poster presented at the 6th Pharmaceutical Sciences World Congress Stockholm, Sweden, May 2017.
9. Abioye A.O. and **Kola-Mustapha A.T.** (2017), Combining Polymer-Drug Self-Assembly and In Situ Hydrotropic Complexation: A Novel Synergistic Strategy for Controlled Delivery of Poorly Soluble Drugs, poster and oral presentation at AAPS Annual Meeting & Exposition San Diego, California, USA, November 2017.
10. Abioye A.O. and **Kola-Mustapha A.T.** (2017), Eco-Friendly Nanoconjugation: A Creative Alternative in Rational Drug Formulation Design, poster and oral presentation at AAPS Annual Meeting & Exposition San Diego, California, USA, November 2017.
11. **Kola-Mustapha A. T.**, Ghazali Y.O. and Ayotunde H.T. Acute Toxicity Study and Anti-Diarrhoeal Effect of the Leaf Extract of *Parquetina nigrescens*. Poster and oral presentation at the Dubai International Pharmaceuticals & Technologies Conference & Exhibition (DUPHAT), Dubai UAE, February 2018.
12. Ayuba A.A. and **Kola-Mustapha A. T.** Solubility Testing, Drug Release Studies and Kinetics for Piroxicam from Zinc and Copper Metal Organic Frameworks. Poster and oral presentation at the Dubai International Pharmaceuticals & Technologies Conference & Exhibition (DUPHAT), Dubai UAE, February 2018.
13. **Kola-Mustapha A. T.** and Ayuba A.A. Drug Release and Release Kinetics for Piroxicam from Copper and Zinc Metal Organic Frameworks. Poster and oral presentation at the Science Association of Nigeria (SAN) 52nd Anniversary Conference, Lagos Nigeria, April 2018.
14. Olufadi-Ahmed H. Y., **Kola-Mustapha A. T.**, Aliyu A., David M. S. and Diyaolu A. H. Antibiotic Susceptibility Profile of Uropathogens among Pregnant Women in Ilorin. Oral presentation at the Nigerian Association of Pharmacists in Academia (NAPA) 16th Annual National Conference and Scientific Meeting, Abuja Nigeria, August 2018.
15. **Kola-Mustapha A. T.**, Ghazali Y. O. and Ayotunde H. T. Formulation and Evaluation of *Parquetina nigrescens* Suspensions for the Treatment of Diarrhea. Poster and oral presentation at the 6th U6 International Conference, Cape Peninsula University, Cape Town, South Africa, September 2018.
16. Amusa T, **Kola-Mustapha A.** and Atolani O. An Overview of the African Centre for Herbal Research Ilorin (ACHRI). Oral presentation at the 6th U6 International Conference, Cape Peninsula University, Cape Town, South Africa, September 2018.
17. Ghazali Y. O., Bello I. and **Kola-Mustapha A.** The Use of Herbal Medicines amongst Out-patients at the University of Ilorin Teaching Hospital (UIITH) Ilorin, Kwara State, Nigeria. Poster and oral presentation at the 6th U6 International Conference, Cape Peninsula University, Cape Town, South Africa, September 2018.
18. Njinga N. S., **Kola-Mustapha A.** and Quadri L. Toxicity Assessment of Sub-acute and Sub-chronic Oral Administration of Aqueous Extract of *Hibiscus sabdariffa* calyces in Wistar Rats. Oral presentation at the 6th U6 International Conference, Cape Peninsula University, Cape Town, South Africa, September 2018.
19. Bello S. I. and **Kola-Mustapha A. T.** Nanotechnology: Applications in Pharmaceutical Sciences. Oral presentation at the LAUTECH Nano Conference 2018, LAUTECH Ogbomoso, Nigeria, October 2018.
20. **Adeola T. Kola-Mustapha.** "Local example of a successful research grants" (Resource person): Presentation at the 2018 Grantsmanship workshop for academics (GRAWA) University of Ilorin 28th August 2018
21. **Adeola T. Kola-Mustapha,** Felicia A. Bamigboye, Haishat Y. Olufadi-Ahmed, Hameedat T. Ayotunde, Yusuf O. Ghazali, Development and Evaluation of *Nigella sativa* Suppositories for the Management of Vaginal Candidiasis. Oral presentation at the Science Association of Nigeria (SAN) 53rd Annual Conference, Usmanu DanFodiyo University Sokoto, July 2019.
22. M.T. Bakare-Odunola, N.S. Njinga, **A.T. Kola-Mustapha,** A.L. Quadri, O. Atolani, R.O. Ayanniyi, M. O. Buhari, T.O. Amusa, E.O. Ajani, O.O. Folaranmi, J.A. Adeniran, L. Kambizi, A.T. Oladiji and

- P. Ebong. Toxicity and histopathology assessment of subacute and sub chronic oral administration of aqueous extract of hibiscus in wistar rats. Oral presentation at the U6+ Consortium International Conference, University of Calabar, Nigeria, September 2019
23. S. A. Atunwa, M. A. Akanmu, S. S. Asa, **A. T. Kola-Mustapha**, M. O. Amali, A. W. Banjoko, A. A. Abdullahi, S. O. Usman, H. A. Atunwa, G. A. Atunwa, B. B. Bolarinwa. Investigating the cognitive roles of some selected medicinal plants and herbal preparations in experimental models of Alzheimer's disease. Oral presentation at the International Brain Research Organization (IBRO) AFRAbia Symposium on Addiction and Related Mental Health Disorders, Makerere University Kampala, Uganda, October 2019
  24. **Kola-Mustapha A. T.**, Ghazali Y.O. and Akande A. Abdulrahman Muhammed. A purview of herbal therapies deployed in the traditional management of sickle cell disease in Kwara, Nigeria. Poster presentation at the Dubai International Pharmaceuticals & Technologies Conference & Exhibition (DUPHAT), Dubai UAE, February 2020
  25. **A. T. Kola-Mustapha**, K. A. Yohanna, Y. O. Ghazali, H. T. Ayotunde, (2020). Design, Formulation and Evaluation of *Chasmanthera dependens* Hochst and *Chenopodium ambrosioides* Linn based Gel for its Analgesic and Anti-inflammatory Activities. Oral presentation at the Virtual Nigerian Association of Pharmacists in Academia (NAPA) 18<sup>th</sup> Annual National Conference and Scientific Meeting, Nsukka Nigeria, August 2020.
  26. Suritra Bandyopadhyay, O.A. Abiodun, B.C Ogbuo, **A.T. Kola-Mustapha**, E.I Attah, L. Edehmanria, A. Kumari, R. Jaganathan, N.S Adelakun. Polypharmacology of specific medicinal plant metabolites against SARS CoV-2 targets: Molecular dynamics evaluation of NSP9 RNA binding protein. Abstract presentation at the Virtual Federazione Italiana Scienze della Vita (FISV) Symposium on SARS-CoV-2 Biology and COVID-19: Current Research and Perspectives, Italy. September 16, 2020
  27. Doaa Rashed Adam, Nouran Al-Rayes, Raghad Fatoum, Ghosoun Arafeh & **Adeola Kola-Mustapha**. The comparative evaluation of amlodipine besylate generic tablet and capsule brands with the innovator Norvasc<sup>®</sup>, available in Riyadh Saudi Arabia. Poster presentation at the 12th Annual Research Day Student Poster Competition, Alfaisal University, Riyadh, Saudi Arabia. March 4, 2021.
  28. Atunwa, S. A., Akanmu, M. A., **Kola-Mustapha, A. T.**, Abdullahi, A. A., Atunwa, H.A. Atunwa, G. A. and Bolarinwa, B. B. Phytochemical, antioxidant and anticholinesterase activities of selected herbal recipes used in the management of dementia. Oral presentation at the Nigerian Association of Pharmacists in Academia (NAPA) 19<sup>th</sup> Annual National Conference and Scientific Meeting, Nsukka Nigeria, August 2021.
  29. Doaa Rashed Adam, Nouran Al-Rayes, Raghad Fatoum, Ghosoun Arafeh & **Adeola Kola-Mustapha**. Comparative kinetic release modelling between generic amlodipine besylate tablets and capsules with innovator brands. Poster presentation at the 13th Annual Research Day Student Poster Competition, Alfaisal University, Riyadh, Saudi Arabia. March 4, 2022.
  30. M.T Baker, S.O Oguntoye, R. Boopathy, **A.T. Kola-Mustapha**, Characterization of Synthesized Cellulose Derivatives in 1-Butyl-3 Methylimidazolium Chloride Ionic Liquid. Poster presentation at the 3<sup>rd</sup> International Conference on Frontiers for Materials for Technological Advancements (FIMTA), August 3<sup>rd</sup> to 5<sup>th</sup>, 2022, SS Bhatnagar (SSB) Hall, CSIR-IMMT Campus, Bhubaneswar, Odisha. India.
  31. **Kola-Mustapha, A. T.**, Raji, M. A., & Ambrose, G. O. (2023). 2D Descriptors as Modulators of Ligand Efficiency (LipE) metrics of Macrocyclic Histone Deacetylase 1(HDAC1) Inhibitors in the treatment of Acne vulgaris. CSPS/CC-CRS Annual Symposium, Toronto, Ontario, Canada, 24-26 May 2023.
  32. Atunwa, S.A., Akanmu, M.A., **Kola-Mustapha, A.T.**, Attah, F.A., Abdullahi, A.A., Atunwa, H.A., and Bolarinwa, B.B. Preliminary toxicology profiles and anti-inflammatory activities of selected medicinal plants used in the management of neurodegenerative disorders a poster presentation at the 20th Nigeria Association of Pharmacists in Academia (NAPA) Conference, at Obafemi Awolowo University, Ile-Ife, Nigeria, August 2022
  33. Babatunde, Y., Oladipo, H., Durojaye, A., Egbewande, O., Omojuyigbe, J., Ogunmola, M, Adedeji O., Ibrahim A., **Kola-Mustapha A. T.**, Lucero-Prisno, D. E. (2022). A Review of Sub-Saharan African Countries Pre-service Pharmacy Curriculum to Identify Training Gaps on Antimicrobial Use, Resistance and Stewardship. **Abstract** presentation at The Global Health Network Conference, Cape Town, South Africa, November 2022.
  34. **Kola-Mustapha Adeola Tawakalitu**, Taiwo Suleiman, Isiaka Abimbola Rofiat, Amao Sherifat Omowunmi, Ismail O. Ishola, Yusuf O. Ghazali, Sukurat O. Usman, (2023). Evaluation of *Terminalia macroptera* (Combretaceae) Guill. & Perr stem bark extract incorporated into an emulgel for the potential management of rheumatoid arthritis. **Oral** presentation at the Science Association of Nigeria (SAN) 54<sup>th</sup> Annual Conference, Ahmadu Bello University Zaria, July 2023.
  35. M.T Baker, **A.T. Kola-Mustapha**, S.O Oguntoye, R. Boopathy (2023). Cellulose-Grafted Hydrogels Prepared in Two Different Solvents from *Gmelina arborea* exhibited Remarkable Swelling Properties. **Oral** presentation at the KU8 Conference of Universities in Kwara State, University of Ilorin, Ilorin, Nigeria, August 2023.
  36. **Kola-Mustapha AT**, Ibraheem HF, Taiwo S, Ishola IO, Usman SO, (2023). Formulation of *Entandrophragma utile* (Dawe & Sprague) into an Herbal Emulgel for the Potential Management of

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- Inflammation. **Oral** presentation at the 21st Nigeria Association of Pharmacists in Academia (NAPA) Conference, at University of Ilorin, Ilorin, Nigeria, August 2023.
37. Ismail O. Ishola, Ifedolapo A. Adejumo, **Adeola T. Kola Mustapha**, Ayoola P. Fatunsin, Olufunmilayo O. Adeyemi, (2023). Anticonvulsant, anxiolytic and hypnotic properties of amiodarone in chemical-induced seizures in mice.. **Oral** presentation at the 1st Scientific Conference of the Nigerian Society for Pharmacological Sciences and Experimental Therapeutics (NISPET), at University of Lagos, Akoka, Lagos Nigeria, September 2023.
  38. Ranim Abou Shameh, **Adeola Kola Mustapha**, Muhabat Raji, Heba Elsewedy, Yusra Alzahrani, Noureldeen, (2024). Optimizing Formulation of Citronella Oil-Based Films for Treating Acne Caused by *Cutibacterium acnes*. **Poster** presentation at the 15th Annual Research Day Student Poster Competition, Alfaisal University, Riyadh, Saudi Arabia. March 7, 2024
  39. M.T Baker, **A.T. Kola-Mustapha**, S.O Oguntoye, (2024). Pharmaceutical Excipient Applications Potentials of Microcrystalline Cellulose (MCC) from Cellulosic Agricultural Wastes. ACS (American Chemical Society) African Regional Conference on Green and Sustainable Chemistry, Lagos Nigeria. 5<sup>th</sup> to 9<sup>th</sup> May 2024.
  40. **Kola-Mustapha Adeola Tawakalitu**, John Favour Temidayo, Bello Ronke Hadiyat, Adedeji Oluwakorede Joshua and Ghazali Yusuf Oluwagbenga. (2024). Formulation And Evaluation of *Eugenia caryophyllata* and *Cymbopogon flexuosus* Essential Oils Loaded Hydrogel for the Management of Oral Candidiasis. **Oral** presentation at the Science Association of Nigeria (SAN) 56<sup>th</sup> Annual Conference, Federal University Lokoja, 26<sup>th</sup> to 29<sup>th</sup> August 2024.
  41. **Adeola Kola Mustapha**, Muhabat Raji, Yusra Alzahrani, Noura Hatim Binsaeed, Doaa Rashed Adam, Ranim Abou Shameh, Noureldeen Garaween, Ghada Garaween (2024) Development and evaluation of Essential-Oils-Loaded Microemulgels for Acne Management. Oral and Poster presentation at the Association of Pharmaceutical Scientists UK APS International Pharmsci Conference, University of Huddersfield, United Kingdom. September 4<sup>th</sup> to 6<sup>th</sup> 2024.

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#### **OTHER VOLUNTEERING ACTIVITIES/COMMUNITY SERVICE**

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1. Member, AAPS PharmSci 360 Abstract Screening Committee for PharmSci 360 Conference Poster Abstract presentations in USA since 2020
2. Member, Reader Committee, Mandela Washington Fellowship for Young African Leaders IREX Washington DC USA since 2019
3. Technical Session Chairman, Medical and Health Sciences SAN Conference Sokoto 2019
4. Country Expert for Nigeria & Member, Techwomen Selection Committee: Institute of International Education (IIE) Washington DC USA since 2017
5. An Academic Reviewer for the journals: Pharmacia, Heliyon, Phytomedicine Plus, West African Journal of Pharmacy; Issues in Biological Sciences and Pharmaceutical Research; and Merit Research Journal of Medicine and Medical Sciences since 2015
6. Council Member (Medical Science Representative), Science Association of Nigeria (SAN) since 2018.