

CURRICULUM VITAE

- I. (a) Name: Tunmise Tunrayo Eugene-Osoikhia
Nee Adebessin)
(b) Date of Birth: 10 October, 1975
(c) Department: Chemistry
(d) Faculty: Science
- II. (a) First Academic Appointment: Assistant Lecturer (1 August, 2008)
(b) Present Post (with date): Senior Lecturer
(1 October, 2021)
(c) Date of Last Promotion: 1 October, 2021
(d) Date Last Considered (in cases where promotion was not through): Nil
- III. University Education (with dates):
(a) University of Agriculture Abeokuta, Abeokuta 1996-2000
(b) University of Ibadan, Ibadan 2003-2004
(c) University of Ibadan, Ibadan 2007-2015
- IV. Academic Qualifications (with dates and granting bodies):
(a) B.Sc (Chemical Sciences) (Abeokuta) 2000
(b) M.Sc. (Inorganic Chemistry) (Ibadan) 2004
(c) Ph.D. (Chemistry) (Ibadan) 2015
- V. Professional Qualifications and Diplomas (with dates): Nil
- VI. Scholarships, Fellowships and Prizes (with dates) in respect of Undergraduate and Postgraduate work only:
(a) Late Dr. (Mrs.) O.O. Apampa Prize for the best graduating student in the Department of Chemical Sciences, University of Agriculture, Abeokuta. 2000
(b) Johnson D. and Catherine T. MacArthur Foundation Overseas Grant Award for Ph.D. Research Utilized at School of Chemistry, University of Manchester, United Kingdom. 2009
- VII. Honours, Distinctions and Membership of Learned Societies:
(a) Member of Chemical Society of Nigeria (CSN)
- VIII. Details of Teaching / Work Experience:
a) Work Experience
Assistant Lecturer, Olabisi Onabanjo University. 2006 - 2008
Assistant Lecturer, University of Ibadan. 2008 - 2011
Lecturer II, University of Ibadan. 2011- 2016
Lecturer I, University of Ibadan. 2016 till date

b) Teaching Experience:

Undergraduate courses taught:

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|---|--------------|------------------------------------|
| CHE191 - Practical Chemistry for 100 L | 2008/09-Date | Taught with eight other lecturers. |
| CHE 225- Basic Inorganic Chemistry for Non-Majors | 2008/09-Date | Taught with two other lecturers |
| CHE 226- Inorganic Chemistry II | 2008/09-Date | Taught with one other lecturer |
| CHE 281- Research Methods and Presentation Techniques | 2008/09-Date | Taught with six other lecturers |
| CHE 299- Industrial Attachment I | 2008/09-Date | |
| CHE 325- Inorganic Chemistry for Life Sciences | 2008/09-Date | Taught with two other lecturers |
| CHE 326- Inorganic Chemistry III | 2008/09-Date | Taught with two other lecturers |
| CHE 328- Bioinorganic Chemistry | 2008/09-Date | Taught with one other lecturer |
| CHE 399- Industrial Attachment II | 2008/09-Date | |
| CHE 425- Nuclear and Radiochemistry and Material Chemistry | 2008/09-Date | Taught with one other lecturer. |
| CHE 426- Inorganic Chemistry IV | 2008/09-Date | Taught with two other lecturers |
| CHE 428- Special Topics in Inorganic Chemistry | 2008/09-Date | Taught with one other lecturer |
| CHE 429- Organometallics,electron-deficient compounds and reaction mechanisms | 2008/09-Date | Taught with one other lecturer |
| CHE 481- Chemistry Seminar | 2008/09-Date | Taught with other five lecturers |
| CHE 495-Research Project | 2008/09-Date | |

Postgraduatecourses taught:

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|---|--------------|---------------------------------|
| CHE 736- Molecular Polyhedra | 2015/16-Date | Taught with two other lecturers |
| CHE 737-Special topics in Inorganic Chemistry | 2015/16-Date | Taught with two otherslecturers |
| CHE 738- Advances in Inorganic Chemistry | 2015/16-Date | Taught with two other lecturers |
| CHE 796- Research Project | 2015/16-Date | |

Research Supervision

Completed:

B.Sc - 22

M.Sc - 13

On going:

B.Sc- 4

M.Sc - 4

(c) Administrative Responsibilities:

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| (i) Undergraduate Registration officer | 2008 to date |
| (ii) Member of Departmental Safety and Security Committee | 2013-2014 |
| (iii) Member of Departmental Junior StaffMatters Committee | 2013-2014 |
| (iv) Member of Departmental Examination Committee | 2014 to date |
| (v) Member of Staff/Student Advisory Committee | 2015-2018 |
| (vi) Faculty Board Representative on IMRAT | 2017-2018 |
| (vii) Faculty Board Representative on Farmer Users' Committee | 2018-2020 |

(d) Community service:

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| Sunday School Teacher, Redeemed Church of God | 2019 to date |
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IX. Research

(a) Completed

- i) Potentiometric determination of some selected antibiotics in mixed solvent media.
- ii) Synthesis and characterisation of derivatisedartemether complexes of Cu(II), Co(II) and Ni(II) transition metals
- iii) Synthesis,computational and antimicrobial studies of methoxy-1,3-diene substituted products from addition of natural products to tricarbonyl(2-methoxycyclohexadienyl)iron tetrafluoroborate.
- iv) Synthesis, characterisation and antimicrobial studies of transition metal complexes of Schiff base derived from Salicylaldehyde and L-Tyrosine amino acid.
- v) Characterisation and antimicrobial studies of transition metal(II) complexes of L-Tyrosine amino acid.
- vi) Synthesis, characterization and antimicrobial studies of Fe(II) and Cu(II) complexes of acetylated and benzoylated derivatives of ciprofloxacin.
- vii) Synthesis, characterization and antimicrobial studies of mixed ligands transition metalcomplexes of sulphamethoxazole and N,N-donors heterocycles.
- viii) Synthesis, characterisation and antimicrobial studies of Metal(II) complexes of Ofloxacin and Metronidazole
- ix) Synthesis of1,3-diene derivatives of tricarbonyl(2-methoxycyclohexadienyl)iron complexes of derivatised cinnamic acid.
- x) Synthesis of 1,3-diene derivatives of tricarbonyl(2-methoxycyclohexadienyl)iron complexes of derivatised metronidazole.
- xi) Synthesis, characterisation and antimicrobial studies of metal(II) complexes of trimethoprim and 2,2' bipyridine heterocycle.
- xii) Synthesis and characterisation of antibiotics derivatives of tricarbonyl(1-5-η-2-methoxycyclohexadienylium) iron: A convenient route to antibiotics modification

(b) In Progress

- i) Synthesis, characterization, antimicrobial and corrosion studies of metal (II) complexes of schiff base derived from sulfamethoxazole and vanillin

This research started in November 2019. Schiff base was formed from the reaction of sulfamethoxazole antibiotics and vanillin in the presence of glacial acetic acid. Series of metal (II) complexes were prepared using the already synthesised schiff base. Characterisation, antimicrobial and corrosion studies of the synthesised complexes are ongoing, to established their structures, medicinal importance and their potential as corrosion inhibitors.

- ii) Synthesis, characterization, antimicrobial and corrosion studies of metal (II) complexes of schiff base derived from trimethoprim, ortho-vanillin and chlorobenzaldehyde

This research started in November 2019. Two different schiff bases were prepared from the reactions of trimethoprim, ortho-vanillin, trimethoprim and chlorobenzaldehyde. This was followed by the synthesis of their metal (II) complexes. characterisation, antimicrobial and corrosion studies of the synthesised complexes are

ongoing, to established their structures, medicinal importance and their potential as corrosion inhibitors

(c) Project, Dissertation and Thesis

- i) **Adebesin, T.T.** (2004). Determination of pKa values of amines in distilled water at 25°C. M.Sc Project, University of Ibadan. 125pp.
- ii) **Adebesin, T.T.** (2015). The synthesis of some natural products of medicinal value using organometallic complexes. Ph.D. Thesis, University of Ibadan.269pp.

X. Publications:

- (a) Books already published: Nil
- (b) Chapters in Books already published: Nil
- (c) Articles that have already appeared in Refereed Conference Proceedings: Nil
- (d) Patents and copyrights: Nil
- (e) Articles that have already appeared in learned journals:

1. Odiaka, T. I., **Adebesin, T. T** and Oladosu, I. A. (2014). Demetallation of 1,3-diene products obtained from addition of natural products to tricarbonyl(cyclohexadienyl) irontetrafluoroborate. *Journal of Organometallic Chemistry* Vol.761: 179-189 (Netherlands) (Contribution: 60%)
2. **Eugene-Osoikhia, T.T.**, Taiwo, O. T. and Adegbemigun, A. (2015).Determination of the pKa values of some selected aromatic amines and naturally occurring compounds in polar and non-polar solvents at 25°C. *Journal of Science Research* Vol. 14: 21-25. (Nigeria) (Contribution:70%)
3. **Adebesin,T. T.**, Oladosu, I. A., Obi-Egbedi, N. O and Odiaka, T. I. (2016). Demetallation, antimicrobial and computational studies of methoxy-1,3-diene substituted products fromaddition of natural products to tricarbonyl(2-methoxycyclohexadienyl)iron tetrafluoroborate. *Journal of Organometallic Chemistry*Vol. 819: 87-94. (Netherlands) (Contribution: 60%)
- *4. **Eugene-Osoikhia, T. T.**, Okunade, R. F. and Ayeni, F. (2017). Synthesis and characterization of derivatised Artemether Complexes of Cu(II), Co(II) and Ni(II) transition Metals. *Journal of Science Research* Vol.16: 64-73. (Nigeria) (Contribution: 70%)
- *5. **Eugene-Osoikhia,T.T.**,Akinpelu, I. O and Odiaka, T. I. (2019). Synthesis,characterization and antimicrobial studies of transition metal complexes of schiffbase derived from salicylaldehyde and L-tyrosine amino acid. *Nigerian Journal of Chemical Research* Vol. 24. No.1: 46-56.(Nigeria) (Contribution: 70%).
- *6. **Adebesin, T. T.**, Odozi, N.W., Oladosu, I. A., and Odiaka, T. I. (2019). Antimicrobial and theoretical corrosion studies of 1,3-diene substituted natural products of tricarbonyl(cyclohexadienyl)irontetrafluoroborate. *Inorganic Chemistry Communication* Vol. 107 article 107501.DOI: [/10.1016/j.inoche.2019.107501](https://doi.org/10.1016/j.inoche.2019.107501) (Netherland) (Contribution: 60%).
- *7. **Eugene-Osoikhia, T.T.** and Emesiani, M. C. (2019). Potentiometric determination of pKa of Some Selected Antibiotics in Mixed Solvent Media. *ChemSearch Journal* Vol.10. No.2: 1-9.(Nigeria) (Contribution: 80%).
- *8. **Eugene-Osoikhia, T.T.** and Komolafe, S. K. (2019). Synthesis, characterization and antimicrobial Studies of transition Metal(II) complexes of L-Tyrosine amino acid. *Science Focus* Vol. 24: 33-41 (Nigeria) (Contribution: 80%).

- *9. Eugene-Osoikhia, T. T.,** Obodozie, J. C. and Ayeni, F. (2020). Synthesis, characterization and antimicrobial studies of Fe (II) and Cu(II) complexes of acetylated and benzoylated derivatives of ciprofloxacin. *Nigerian Journal of Chemical Research* Vol. 25. No.1: 25-43. (Nigeria) (Contribution: 70%).
- *10. Eugene-Osoikhia, T. T.,** Aleem, A. O. and Ayeni, F. (2020). Synthesis, characterisation and antimicrobial studies of mixed ligands Metal (II) complexes of Sulfamethoxazole and N,N-Donors heterocycles. *FUDMA Journal of Sciences* Vol.4.No.2: 217-232.(Nigeria) (Contribution: 70%).
- *11. Eugene-Osoikhia, T. T.,** Badmus, T. O. and Ayeni, F. (2020). Synthesis, characterization and antimicrobial studies of Metal(II) complexes of Ofloxacin and Metronidazole. *ChemSearch Journal* Vol. 11. No.1: 74-82. (Nigeria) (Contribution: 70%).
- **12. Eugene-Osoikhia, T. T.,** Ojeyemi, S. A., Akong, R. A., Oyetunde, T., Onche, E.U and Ayeni, F. (2021). Synthesis, characterisation and antimicrobial studies of metal(II) complexes of trimethoprim and 2,2' bipyridine heterocycle. *Nigerian Research Journal of Chemical Sciences* Vol. 9. No.1: 273-295. (Nigeria) (Contribution: 50%) (Published 1 June, 2021).
- **13. Awokoya, K. N., Oninla, V. O., Eugene-Osoikhia, T. T.,** Njionye, U. O., Okoya, A. A., Adeyinka, G. C and Chioma, O. (2024). Synthesis of trimethoprim vanillin anchored conjugate imprinted polymers for removal of bromocresol green and malachite green from aqueous media. *Water Science and Engineering*. doi.org/10.1016/j.wse.2024.01.004

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| (f) <u>Books, Chapters in Books and Articles already accepted for Publication:</u> | Nil |
| (g) <u>Technical Reports and Monographs:</u> | Nil |

* Publications that have appeared/been accepted after last promotion.

** Publications that have appeared/been accepted since last consideration for promotion.

XI. Major Conferences Attended with Papers Read (in the last 5 years):

- i) Istanbul International Scientific Research Congress in Turkey, 4-5 June 2021. Paper Read: **Eugene-Osoikhia, T. T.**, Olawoyin, A. S., Aasegh, T. J., Oyetunde, T., Akong, R., Onche, E. U. and Oladosu, I.A. Synthesis and characterisation of antibiotics derivatives of tricarbonyl(1-5- η -2-methoxycyclohexadienylium) Iron: A Convenient Route to Antibiotics Modification.
- ii) International Conference on Medical, Biological and Pharmaceutical Sciences (ICMBPS-21) in Accra, Ghana, 7th -8th July 2021.
Paper Read: **Eugene-Osoikhia, T. T.**, Ojeyemi, S. A., Akong, R. A., Oyetunde, T., Onche, E.U and Ayeni, F. Synthesis, characterisation and antimicrobial studies of metal(II) complexes of trimethoprim and 2,2' bipyridine heterocycle.
- iii) 3rd Commonwealth Chemistry Posters congress: Building Networks to address the goals September 28-29, 2022.
Paper Read: **Eugene-Osoikhia, T. T.**, Obodozie, J. C and Ayeni, F. (2020). Synthesis, characterization and antimicrobial studies of Fe (II) and Cu(II) complexes of acetylated and benzoylated derivatives of ciprofloxacin.
- iv) 4th Commonwealth Chemistry Posters congress: Building Networks to address the goals September October 4-5, 2023. Paper Read: **Eugene-Osoikhia, T.T.**, Akinpelu, I. O and Odiaka, T. I. (2019). Synthesis, characterization and antimicrobial studies of transition metal complexes of schiff basederived from salicylaldehyde and L-tyrosine amino acid.
- v) Research for Impact Initiative workshop organized by Tertiary Education Trust Fund (TETFUND) at Inno8 Hub Abuja, 26 February- 8 March 2024.
- vi) 5th Commonwealth Chemistry Posters congress: Building Networks to address the goals September 11-12, 2024. Paper Read: **Eugene-Osoikhia, T. T.**, Badmus, T. O. and Ayeni, F. (2020). Synthesis, characterization and antimicrobial studies of Metal(II) complexes of Ofloxacin and Metronidazole.



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Signature

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Date