

CV

1. **Title** : Asst Prof. Dr
2. **Name & Surname** : Mthabisi Talent George Moyo
3. **TR ID Number** : N/A
4. **Date of Birth** : 26 February 1996
5. **Address** : Girne American University
6. **Phone** : +905338377866
7. **Email Address** : mthabisimoyo@gau.edu.tr
8. **Research Interests** : Biomaterials; Tissue Engineering;
Drug Delivery Systems; Theranostic biomaterials;
Hemocompatibility; Biocompatibility;
Bioengineering; Biomedical Applications

9. Educational status

Degree	Department	University	Year
Bachelor of Science	Bioengineering	Near East University	2017
Master of Science	Biomedical Engineering	Near East University	2020
Doctor of Philosophy	Biomedical Engineering	Near East University	2025

10. Work Experience

Duty	Institution/Organization	Year
Phase 1 Coordinator	Girne American University (Faculty of Medicine)	08. 2024 - Present
Phase 1 Assistant Coordinator/Academic Advisor	Girne American University (Faculty of Medicine)	01. 2024 - 08.2024
Medical Biochemistry Lecturer (Phase 1 & Phase 2)	Girne American University (Faculty of Medicine)	08. 2023 - Present
Medical Care Assistant	Kolan British Hospital	09. 2022 – 09. 2023

11. Theses

11.1 . Master's Thesis :

Biocompatibility Studies of Layer-By-Layer Polyelectrolyte Complexes for Biomedical Applications

11.2 Doctoral Thesis :

Gellan Gum-Based Hydrogels for Cell Culturing

12. . Publications

12.1 Articles Published in Journals Covered by SCI-Expanded

- Akulo, K. A., Adali, T., **Moyo, M. T. G.**, & Bodamyali, T. (2022). **Intravitreal Injectable Hydrogels for Sustained Drug Delivery in Glaucoma Treatment and Therapy.** *Polymers*, 14(12), 2359. <https://doi.org/10.3390/polym14122359>
- **Moyo, M. T. G.**, Adali, T., Edebal, O. H., Bayir, E., & Şendemir, A. (2023). **Hemocompatibility studies of layer-by-layer polyelectrolyte complexes for bio-based polymers.** *Materials and Technology*, 57(5), 525-536. DOI: <https://doi.org/10.17222/mit.2023.922>

- **Moyo, M. T. G.**, Adali, T., & Tulay, P. (2024). Exploring gellan gum-based hydrogels for regenerating human embryonic stem cells in age-related macular degeneration therapy: A literature review. *Regenerative therapy*, 26, 235–250. <https://doi.org/10.1016/j.reth.2024.05.018>
- **Moyo MTG**, Adali T. (2024)“Gellan gum as a promising transplantation carrier for differentiated progenitor cells in ophthalmic therapies”. *Journal of Bioactive and Compatible Polymers*. (2024);0(0). <https://doi.org/10.1177/08839115241278739>
- **Moyo, M. T. G.**, Adali, T., & Edebal, O. H. (2024). ISO 10993-4 Compliant Hemocompatibility Evaluation of Gellan Gum Hybrid Hydrogels for Biomedical Applications. *Gels*, 10(12), 824. <https://doi.org/10.3390/gels10120824>
- Adali, T., Vatansever, H.S., Ensarioğlu, H.K, **Moyo, MTG**. Biomimetic Gellan Gum Hybrid Hydrogels for Extracellular Matrix Simulation in Mouse Embryonic Stem Cell Culture. *J. Med. Biol. Eng.* 45, 519–535 (2025). <https://doi.org/10.1007/s40846-025-00970-3>

12.2 Articles Published in Journals Covered by SCOPUS

- **Moyo, M. T. G.** (2023). Unveiling the absence of a local medical device and biomaterials manufacturing industry in Zimbabwe: A literature review. *Health Technology Assessment in Action*. DOI: <https://doi.org/10.18502/htaa.v7i2.13815>

12.3 Articles Published in Journals Covered by PubMed

- **Moyo, M. T. G.**, Dirilenoğlu, F. & Köy, Y. **Urachal mucinous cystic tumor of low malignant potential: a report of a rare case with literature review.** *Surg Exp Pathol* 6, 18 (2023). DOI: <https://doi.org/10.1186/s42047-023-00143-z>
- Dirilenoğlu, F., **Moyo, M. T. G.**, & Kahraman, A. **Primary intra-axial Ewing sarcoma of the central nervous system: report of a rare case with literature review.** *Surg Exp Pathol* 6, 12 (2023). <https://doi.org/10.1186/s42047-023-00137-x>

12.4 Book Chapter Covered by Web of Science Book Citation Index (BKCI)

- **Moyo, M. T. G.** (2025). **Bridging the Digital Health Divide: AI-Powered Telemedicine, Policy Barriers, and Equity Solutions for Underserved Communities.** IntechOpen. DOI: <https://doi:10.5772/intechopen.1010970>

6 International Conferences, Congress and Symposium Presentations and publications.

- Akulo K., Fisseha R., Umar A. U., **Moyo M.T. G.**, Adali T., “**Bilayer & TriLayer Alginate and Silk Fibroin Biofilms: Synthesis, Characterization and Platelet Adhesion Studies**”, 2nd International Biomedical Engineering Congress (IBMEC-2018), North Cyprus, P. 153, 2018.
- Adalı, T, **Moyo, M. T. G.**, “ **Blood Biocompatibility of Silk Fibroin Based Polyelectrolyte Complexes.**” European Biotechnology Congress 2020.
- **Moyo, M. T. G.**; Adalı, T, Oğuzhan E, Şendemir A (2022) **Hemocompatibility studies of Layer – by – Layer Polyelectrolyte Complexes for Biobased Polymers.** 8th ICNTC (International Conference on New Trends in Chemistry) Conference 16 – 17 May 2022.

- **MOYO, M.T.** Injectable Thermoresponsive Hyaluronic Acid–GelMA Composite Hydrogel Loaded with Tacrolimus and Tyrosinase-Activating Peptides for Local Immunomodulation and Melanocyte Regeneration in Vitiligo, in Proceedings of the 1st International Online Conference on Gels, 3–5 December 2025, MDPI: Basel, Switzerland, <https://sciforum.net/paper/view/27352>
- Love Edet M and **M.T.G Moyo**, “AI–Powered Biochemical Materials for Biomedical Applications: Current Trends and Future Prospects”. International Conference on Artificial Intelligence and Cybersecurity 2025 (ICAIC 2025), organized by Canadian Tech-Institute for Academic Research in association with London School of Management, held on October 17th – 18th October, 2025: <https://doi.org/10.65025/ICAIC25058m>

11. Reviewer for articles in journals that are SCI-Expanded

- Zheng, Q., Chen, J., Huang, Y., Chen, W., Cheng, D., Jia, Q., ... & Shunli, W. **Injectable crosslinked HA hydrogel: a promising carrier for cell transplation to treat stable vitiligo.** *Frontiers in Medicine* , 12 , 1583271. Doi: <https://doi.org/10.3389/fmed.2025.1583271> | IF: 3.1

13. Citation

14.1. Number of Citations in Articles Published in Journals Covered by SCI-Expanded:

53

14.2. Number of Citations in Articles Published in Journals Covered by Field Indexes (If Available) :

21

12. Administrative Positions

ADMINISTRATIVE POSITIONS	INSTITUTION	YEARS
Times Higher Education (THE) Impact Methodology Data Management System Coordinator	Girne American University (Faculty of Medicine)	02.2025 - Present
Faculty of MedVcVne WebsVte CoordVnator	Girne American University (Faculty of Medicine)	10. 2023- Present

13. Courses offered in the past two years:

Academic Year	Period	Course Name	Semester Hours		Number of Students
			Theoretic	Practical	
2025-2026	Committee 1-4	Medical Biochemistry	95	24	99
2024-2025	Committee 1-4	Medical Biochemistry	95	24	79
2023 -	Fall	General Chemistry Lab	-	32	60
		-	-	-	-

2024	Spring	-			
			Committee Hours		
			Theoretic	Practical	
2023 - 2024	Committee 1-4	Medical Biochemistry	95	24	96
	Committee 5	Occupational Health & Safety	20	0	54

-Lectures offered to phase 1, phase 2 and phase 3 medical students.

14. Other Courses/ Certifications

- Occupational Health & Safety | University of Cape Town | EdX | 2024
- Principles of Biochemistry | Harvard Online | EdX | 2024
- Hands-On Stem Cell Culture Workshop Embryonic Stem Cell Culture, Passaging & Formation of Embryoid Bodies | DESAM Research Institute | 2023
- EdX verified certificate for Biomaterials and Biofabrication: Design, Engineering, and Innovation. | University of Bayreuth | 2022
- EdX verified certificate for Product Design, Prototyping, and Testing | University System of Maryland | 2022
- Coursera verified certificate for Design and Interpretation of Clinical Trials | Johns Hopkins University | 2022
- EdX verified certificate for Product Management Fundamentals | University System of Maryland | 2022
- International English Language Testing System (IELTS) | 2023
- Healthcare Assistant (Advanced Diploma) | Reed | Oct 2022
- Diploma in Caregiving | Alison, CPD Approved / NVQ - Level 2 | Oct 2022
- Diploma in Nursing & Patient care | Alison, CPD Approved / NVQ - Level 2 | Oct 2022
- Health and Social Care | Reed, NVQ Level 5 Diploma | Oct 2022
- Care Giving Skills - Dementia Care | Alison, CPD Approved / NVQ - Level 2 | Oct 2022
- Elderly Care & Care for the Disabled | Alison, CPD Approved / NVQ - Level 2 | Aug 2022
- Care certificate courses (Standard 1 - 15) | Florence Academy, CPD Approved / NVQ - Level 2 | Aug 2022
- Patient Safety & Quality Improvement: Developing a Systems View. | Johns Hopkins University | Coursera | Sep 2022
- Integrative Nursing | University of Minnesota | Coursera Sep 2022