

Abdul Nagy

✉ abdulnagy@gmail.com ☎ +27 67 000 6028 📍 Pretoria, South Africa.

Personal and professional information

Name	Abdulrahman Elbagory
Nationality	Egyptian/South African permanent resident
Marital Status	Single
h-index	6
Total citations (2022)	171



Education

- | | |
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| 03/2015 to 08/2019 | Ph.D. Degree in Biotechnology.
University of the Western Cape, Cape Town, South Africa.
Thesis title: Green synthesis of gold nanoparticles and their chemical and biological characterization.
Mark: No marking system (Pass) |
| 03/2013 to 03/2015 | M.Sc. Degree in Chemical Sciences.
University of the Western Cape, Cape Town, South Africa.
Thesis title: Chemical and biological evaluation of <i>Palythoa tuberculosa</i> collected from the red sea.
Mark: 61% |
| 01/2000 to 06/2006 | Bachelor's Degree in Pharmaceutical Sciences.
Misr University for Science & Technology, 6th of October City, Egypt.
Mark: CGPA 3.66 (86%) (ranked first student in class) |

Conferences and Meetings Presentations

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|------------------------------|---|
| Poster: | <ul style="list-style-type: none">• The 1st South African Marine Natural Products Symposium, Cape Town, South Africa- September 2017.• The DST/Nanotechnology Innovation Centre 10-year anniversary meeting, Pretoria, South Africa- October 2018. |
| Oral: | <ul style="list-style-type: none">• DST/MINTEK Nanotechnology Innovation Centre meeting, Cape Town, South Africa- January 2017.• The 13th International Conference and Exhibition on Nanomedicine and Pharmaceutical Nanotechnology, Rome, Italy- July 2017.• International Conference on Nanomedicine and Nanobiotechnology (ICONAN), Munich, Germany- October 2019. |
| Presentations as a co-author | <ul style="list-style-type: none">• Nanotechnology and Artificial Intelligence, Rome, Italy- October 2019.• 10th International Conference of the African Materials Research Society (AMRS2019), Arusha, Tanzania- December 2019. |

Awards and Scholarships

- Ranked the first student in 06/2006 Pharmacy graduate class.
- The National Research Foundation (NRF) Innovation Masters and Doctoral Scholarship. (2015, 2017, 2018)
- DST/MINTEK Nanotechnology Innovation Centre Doctoral Scholarship. (2016 and 2019)
- 3rd best oral presentation at the 7th Annual DST/MINTEK Nanotechnology Innovation Centre Meeting (Cape Town).
- Nominated for the NRF awards in 2018: Next generation researcher category.
- NRF Post Doctorate Freestanding Scholarship 2021

Research Techniques and Instrumentations

Cell culture:	Normal cell lines: Fibroblasts (KMST-6), Monocytes (THP-1), Natural Killer (NK-92). Cancer cell lines: Breast (MCF-7), Colon (HT-29), Cervical (HeLa), Melanomas (SK-Mel-1), and many others. Techniques and assays: Cell differentiation, MTT, WST-1, Annexin V apoptosis, Melanin inhibition, Solid phase sandwich ELISA, Alamar blue, Cytokines quantity determination, Nanoparticles cell uptake.
Analytical techniques:	FTIR, UV-Vis, DLS, FACS, TGA, NMR, HPLC, TEM, Fluorescent Microscope, Thermogravimetric analyzer, ICP.
Chemistry:	Metal nanoparticles synthesis (Chemical synthesis, conjugation), Chromatographic separation.
Software:	GraphPad Prism, OriginPro, ImajJ, MS Office.

Teaching Experience

01/2019 to 06/2020	Lecturer in Biochemistry Faculty of Science, University of the Western Cape, Cape Town, South Africa.
01/2018 to 12/2018	Tutor in Anatomy and Physiology Faculty of Science, University of the Western Cape, Cape Town, South Africa.
01/2016 to 12/2017	Demonstrator in Biotechnology Faculty of Science, University of the Western Cape, Cape Town, South Africa.
01/2014 to 12/2015	Teaching Facilitator in Introduction to Science course Faculty of Science, University of the Western Cape, Cape Town, South Africa.

Working Experience

- 06/2021 till date **Postdoc**
Pan African Cancer Research Institute, University of Pretoria, Pretoria, South Africa.
- 06/2020 to 06/2021 **Postdoc**
Faculty of Science, Chemistry Department, Cape Peninsula University of Technology, Cape Town, South Africa.
- 08/2019 to 12/2019 **Postdoc**
Faculty of Science, DSI/Mintek Nanotechnology Innovation Centre, Biolabels node, University of the Western Cape, Cape Town, South Africa.

Languages

English Proficient
Arabic Mother tongue
German Beginner

References

Mervin Meyer (PhD), University of the Western Cape, Cape Town. South Africa.

Email: memeyer@uwc.ac.za

Tel.: +27 21 959 2032

Ahmed Hussein (PhD), Cape peninsula University for Technology, Cape Town, South Africa.

Email: mohammedam@cput.ac.za

Tel.: +27 76 583 4877

Nicole Remaliah Sibuyi (PhD), MINTEK, Johannesburg, South Africa.

Email: nsibuyi@uwc.ac.za

Tel.: +27 72 321 4253

List of Publications

1. Popoola, O., **Elbagory, A.**, Ameer, F., & Hussein, A. (2013). Marrubin. *Molecules*, 18(8), 9049-9060. DOI: <https://doi.org/10.3390/molecules18089049>. **Impact factor: 4.411**
2. **Elbagory, A. M.**, Meyer, M., Ali, A. A., Ameer, F., Parker-Nance, S., Benito, M. T., Hussein, A. A. (2015). New polyhydroxylated sterols from *Palythoa tuberculosa* and their apoptotic activity in cancer cells. *Steroids*, 101, 110-115. DOI: 10.1016/j.steroids.2015.06.009 **Impact factor: 2.136**

3. **Elbagory, A.**, Cupido, C., Meyer, M., & Hussein, A. (2016). Large Scale Screening of Southern African Plant Extracts for the Green Synthesis of Gold Nanoparticles Using Microtitre-Plate Method. *Molecules*, 21(11), 1498. **DOI:** <https://doi.org/10.3390/molecules21111498>. **Impact factor: 4.411**
4. Hussein, A., Meyer, M., **Elbagory, A** (2017). Natural products-nanoparticles interface, a new dimension of South African flora. *South African Journal of Botany*, 109:338. **DOI:** 10.1016/j.sajb.2017.01.067. **Impact factor: 2.135**
5. **Elbagory, A.**, Meyer, M., Cupido, C., & Hussein, A. (2017). Inhibition of Bacteria Associated with Wound Infection by Biocompatible Green Synthesized Gold Nanoparticles from South African Plant Extracts. *Nanomaterials*, 7(12), 417. **DOI:** <https://doi.org/10.3390/nano7120417>. **Impact factor: 5.076**
6. **Elbagory, A.**, Hussein, A., & Meyer, M. (2019). The *in vitro* immunomodulatory effects of gold nanoparticles synthesized from *Hypoxis hemerocallidea* extract and Hypoxoside. *International Journal of Nanomedicine*. **Impact factor: 6.4**
7. Kelani M. A., Hiss D. C., Meyer, M., **Elbagory A. M.**, Hussein A. A. (2021). Antimicrobial and antibiofilm activity of certain South African plants against the oral pathogen - *Streptococcus mutans*. *Medicinal Plants - International Journal of Phytomedicines and Related Industries*. 13(2), 322-29. **DOI:** 10.5958/0975-6892.2021.00037.X. **Impact factor: 0.27**
8. Tyavambiza, C., **Elbagory, A. M.**, Madiehe, A., Meyer, M., & Meyer, S. (2021). The Antimicrobial and Anti-Inflammatory Effects of Silver Nanoparticles Synthesised from Cotyledon orbiculata Aqueous Extract. *Nanomaterials*. 11(5), 1343. **DOI:** <https://doi.org/10.3390/nano11051343>. **Impact factor: 5.076**
9. **Elbagory, A.M.**, Marima, R.M., and Dlamini, Z. (2021). Role and Merits of Green Based Nanocarriers in Cancer Treatment. *Cancers*. 13(22), 5686. **DOI:** <https://doi.org/10.3390/cancers13225686>. **Impact factor: 6.6**
10. Marima, R., Hull, R., Mbeje, M., Molefi, T., Mathabe, K, **Elbagory, A. M.**, Demetriou, D., and Dlamini, Z. (2022). Is precision oncology a promising intervention tool to the devastating effects of prostate cancer and type II endometrial cancer in the African population? Cancer health disparities. *International Journal of Molecular Sciences*. **DOI:** <https://doi.org/10.3390/ijms23020628> **Impact factor: 5.9.**