

Curriculum Vitae

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University City, Sharjah, 27272, United Arab Emirates

Objective

After completing my medical training, I developed a deep interest in understanding health and disease at the cellular and molecular levels. I became convinced that the future of medical science lies in molecular biology and that the next frontier in medicine will focus on tissue regeneration. Motivated by this belief, I pursued a PhD in stem cell biology, directing my research towards its clinical applications, shaped by my academic foundation. As an educator, I strive to provide future biologists, medical professionals, and paramedics with a strong foundation in cellular and molecular medicine. My research focuses on developing cell-based therapeutic solutions to address chronic skin wounds in elderly patients and to aid individuals recovering from burn injuries, ultimately promoting healthy longevity.

Current Positions

- Associate Professor, Medical Lab Science Department, College of Health Sciences, University of Sharjah, Sharjah, United Arab Emirates
- Consultant A in Clinical Pathology, subspeciality Biochemistry, Ministry of Health, Egypt.
- Chairman, Häka AB, Sweden.

Previous Jobs

- Scientific Director, The Research and Development Unit for Skin and Cultured Cells, Linköping University Hospital, Region Östergötland, Sweden; February 2019 – August 2025.
- Senior Associate Professor (Biträdande Professor), Department of Biomedical and Clinical Sciences (BKV), Linköping University, Sweden; September 2024 – August 2025.
- Associate Professor (Universitetslektor), Department of Biomedical and Clinical Sciences (BKV), Linköping University, Sweden; November 2019 - September 2024.
- Professor, Medical Biochemistry and Molecular Biology Department, Faculty of Medicine, Suez Canal University, Egypt; April 2022- September 2022.
- Associate Professor, Medical Biochemistry Department, Faculty of Medicine, Suez Canal University, Egypt, March 2017 - April 2022.
- Assistant Professor, Genetics and Molecular Biology, Basic Sciences Department, College of Medicine, University of Sharjah, United Arab Emirates, September 2012 – December 2018.

- Assistant Professor, Medical Biochemistry Department, Faculty of Medicine, Suez Canal University, Egypt, December 2009 - March 2017.
- Adjunct Lecturer of Biochemistry, Faculty of Nursing, Port-Said University, Egypt, September 2009 - August 2012.
- Executive manager, El-Serafi private lab, Port-Said, Egypt, September 2009 - August 2012.
- Post-doctoral research fellow, Bone and Joint research group, Centre for Human Development, Stem Cells and Regeneration, Institute of Developmental Sciences, Developmental Origin of Health and Disease division, University of Southampton, UK, June 2009 - August 2009.
- PhD student, Bone and Joint research group, Centre for Human Development, Stem Cells and Regeneration, Institute of Developmental Sciences, Developmental Origin of Health and Disease division, University of Southampton, UK, April 2006 – June 2009.
- Assistant Lecturer of Biochemistry and Molecular Biology, School of Medicine, Suez Canal University, Egypt 2005-2006
- Demonstrator of Biochemistry and Molecular Biology, School of Medicine, Suez Canal University, Egypt 2002-2005.

Education

- **Docent in Cell and Molecular Biology**
Faculty of Medicine and Health Sciences, Linköping University, Sweden, 2020.
- **Doctorate of Medicine (MD),**
Supreme Council of Universities, Egypt, 2009.
- **Doctorate of Philosophy (PhD),**
Institute of Developmental Sciences, School of Medicine, University of Southampton, UK, 2009.
- **Master of Science (MSC)**
Faculty of Medicine, Suez Canal University, Egypt, 2005.
First Part : Genetics
Second Part : Biochemistry & Molecular Biology
Grade : Excellent
- **Bachelor of Medicine and Surgery (MBBCh)**
Faculty of Medicine, Suez Canal University, Egypt, 2000.
Grade : Very Good with honour.

Publications

Google Scholar; H-index: 21, Citations: 1361 and i10-index: 35

<https://scholar.google.com/citations?user=kKYiMYAAAAAJ&hl=en>

ResearchGate; H-index: 20, Citations: 1188 and Research Interest Score: 749.7

<https://www.researchgate.net/profile/Ahmed-El-Serafi-2/research>

Scopus; H-index: 18, Citations: 949 and Documents in top 25% journals: 55%

<https://www.scopus.com/authid/detail.uri?authorId=36559022300>

Publication list

1. Mouna Tabebi, Sallam Abdallah, Ahmed El-Serafi, Peter Söderkvist, and Oliver Gimm (2025). Role of GDH and PARP Inhibitors as a Novel Treatment for SDHB-Deficient PPGLs. Endocrine Related Cancer (Preprint). <https://doi.org/10.1530/ERC-25-0173>
2. Folke Sjöberg, Ingrid Steinvall, Ahmed T. El-Serafi, Matilda Karlsson, Islam Abdelrahman, Pia Olofsson, Moustafa Elmasry (2025). The Dutch burn care protocol – Reflections on data from the Dutch Burn Registry. Burns Open (Preprint). <https://doi.org/10.1016/j.burnso.2025.100423>
3. Hady Shahin, Ingrid Steinvall, Folke Sjöberg, Moustafa Elmasry, Ahmed El-Serafi (2025). Towards propagation of epidermal cells for wound repair: Glass, as cell culture substrate, enhances proliferation and migration of human keratinocytes. Frontiers in Bioengineering and Biotechnology 13:1547044. <https://doi.org/10.3389/fbioe.2025.1547044>
4. Folke Sjöberg, David Greenhalgh, Moustafa Elmasry, Islam Abdelrahman, Ahmed T. El-Serafi, David Greenhalgh and Ingrid Steinvall (2025). High Early Incidence of Sepsis and Its Impact on Organ Dysfunction in Burn Trauma Patients: A Detailed and hypothesis generating study. Burns & Trauma 13: tkae085. <https://doi.org/10.1093/burnst/tkae085>
5. Sallam Abdallah, Mouna Tabebi, Sawsan Qanadilo, Neserin Ali, Jing Wang, Pádraig D´Arcy, Wen Zhong, Folke Sjöberg, Moustafa Elmasry and Ahmed El-Serafi (2025). Modulation of biological activities in adipose derived stem cells by histone deacetylation. Scientific Reports 15: 3629. <https://doi.org/10.1038/s41598-024-84652-1>
6. Sinan Dogan, Folke Sjöberg, Ahmed T. El-Serafi, Zacharias Sjöberg, Islam Abdelrahman, Ingrid Steinvall, Matilda Karlsson, Pia Olofsson, Andrew Lindford, Jyrki Vuola and Moustafa Elmasry (2024). Advancements in Skin Grafting: Development and Applications of a Novel Two-Blade Dermatome for Concurrent Split-Thickness and Dermal Graft Harvesting. Burns 50: 107289. <https://doi.org/10.1016/j.burns.2024.107289>
7. Folke Sjöberg, Sinan Dogan, Ahmed T. El-Serafi, Zacharias Sjöberg, Islam Abdelrahman, Ingrid Steinvall, Matilda Karlsson, Pia Olofsson, Andrew Lindford, Jyrki Vuola and Moustafa Elmasry (2024). Exploring the potential of dermal grafting: a narrative review in plastic surgery. Plastic and Aesthetic Research 11: 55. <http://dx.doi.org/10.20517/2347-9264.2024.86>
8. Ahmed El-Serafi and Ibrahim El-Serafi (2024). Nutrition, Epigenetics, and Stem Cells. In L. M. Vaschetto (Ed), Epigenetics and Human Health, Volume 12: Molecular Mechanisms in Nutritional Epigenetics, Springer. https://doi.org/10.1007/978-3-031-54215-2_6
9. Ingrid Steinvall, Moustafa Elmasry, Islam Abdelrahman, Gustav Nyberg, Ahmed El-Serafi, Erid Ursing and Folke Sjöberg (2024). The Impact and Validity of the Berlin Criteria on Burn-Induced ARDS: Examining Mortality Rates, and Inhalation Injury Influences; A Single Center Observational Cohort study. Burns 50:1528-1535. <https://doi.org/10.1016/j.burns.2024.05.005>

10. Hady Shahin, Luigi Belcastro, Jyotirmoy Das, Marina Perdiki Grigoriadi, Rolf Saager, Ingrid Steinvall, Folke Sjöberg, Pia Olofsson, Moustafa Elmasry and Ahmed El-Serafi (2024). MicroRNA-155 mediates multiple gene regulations pertinent to the role of human adipose-derived mesenchymal stem cells in skin regeneration. *Frontiers in Bioengineering and Biotechnology* 12:1328504. <https://doi.org/10.3389/fbioe.2024.1328504>
11. Maha Saber-Ayad, Iman Talaat, Nada Yakout, Moustafa Elmasry and Ahmed El-Serafi (2024). Skin Regeneration: Methods and Directions for Clinical Application. In M. J. Caplan (Ed), Reference Module in Biomedical Sciences, Elsevier. <https://doi.org/10.1016/b978-0-443-15717-2.00068-8>
12. Ahmed Taher El-Serafi (2024). Stem Cells, from A to B. Linköping University Electronic Press, 2024, Sweden. <https://doi.org/10.3384/9789180755849>
13. Raghad Alghazali, Ahmed Nugud, Ahmed El-Serafi (2024). Glycan Modifications as Regulators of Stem Cell Fate. *Biology* 13: 76. <https://doi.org/10.3390/biology13020076>
14. Hady Shahin, Sallam Abdallah, Jyotirmoy Das, Weihai He, Ibrahim El-Serafi, Ingrid Steinvall, Folke Sjöberg, Moustafa Elmasry, Ahmed El-Serafi (2023). miRNome and Proteome Profiling of Human Keratinocytes and Adipose Derived Stem Cells Proposed miRNA-Mediated Regulations of Epidermal Growth Factor and Interleukin 1-Alpha. *International Journal of Molecular Sciences* 24: 4956. <https://doi.org/10.3390/ijms24054956>
15. Luigi Belcastro, Hanna Jonasson, Tomas Strömberg, Ahmed Elserafy, Rolf B Saager (2023). Beneath the skin: multi-frequency SFDI to detect thin layers of skin using light scattering. *Proc. SPIE* 12352: 1235209. <https://doi.org/10.1117/12.2648545>
16. Mohammad Ghaleb Mohammad, Ahmed El-Serafi, Mohamed Ibrahim Madkour, Abeer Alhabshi, Ansar Wadea, Rola Abu Jabal, Divyasree Sandeep, Sameh S M. Soliman (2023). Potential anti-adipogenic activity of Calligonum comosum cuminaldehyde on mouse 3T3-pre-adipocytes. *Advances in Biomedical and Health Sciences* 2: 23-30. https://doi.org/10.4103/abhs.abhs_40_22
17. Manal M Sami, Mahmoud H Sherief, Taghrid B El-Abaseri, Ahmed I El-Sakka and Ahmed T El-Serafi (2023). Expression of Epidermal Growth Factor Receptor and Human Epidermal Growth Factor Receptor 2 in Urothelial Bladder Carcinoma in An Egyptian Cohort: Clinical Implication and Prognostic Significance. *Urologia Journal* 90: 248 –260. <https://doi.org/10.1177/03915603221150965>
18. Latifa Alghfeli, Divyasree Parambath, Loaa A. Tag Eldeen, Ibrahim El-Serafi, Ahmed El-Serafi (2022). Non-additive effect of the DNA methylation inhibitor, 5-Aza-dC, and glass as a culture surface on osteogenic differentiation. *Heliyon* 8: e12433. <https://doi.org/10.1016/j.heliyon.2022.e12433>
19. Sinan Dogan, Moustafa Elmasry, Ahmed El-Serafi, Folke Sjöberg, Jyrki Vuola, Esko Kankuri, Marina Perdiki Grigoriadi, Jussi Valtonen, Islam Abdelrahman, Ingrid Steinvall, Matilda Karlsson, Pia Olofsson, Andrew Lindford (2022). A prospective dual-centre intra-individual controlled study for the treatment of burns comparing dermis graft with split-thickness skin auto-graft. *Scientific Reports* 12:21666. <https://doi.org/10.1038/s41598-022-25346-4>
20. Ahmed T. El-Serafi, Ibrahim El-Serafi, Ingrid Steinvall, Folke Sjöberg, Moustafa Elmasry (2022). A Systematic Review of Keratinocyte Secretions: A Regenerative Perspective. *International Journal of Molecular Sciences* 23: 7934. <https://doi.org/10.3390/ijms23147934>

21. Ingrid Steinvall, Moustafa Elmasry, Islam Abdelrahman, Ahmed El-Serafi, Mats Fredrikson, Folke Sjöberg (2022). ABO blood group and effects on ventilatory time, length of stay and mortality in major burns a retrospective observational outcome study. *Burns* 48: 785-790. <https://doi.org/10.1016/j.burns.2022.02.001>
22. Ahmed Nugud, Latifa Alghfeli, Moustafa Elmasry, Ibrahim El-Serafi, Ahmed T. El-Serafi (2022). Biomaterials as a Vital Frontier for Stem Cell-Based Tissue Regeneration. *Frontiers in Cell and Developmental Biology* 10: 713934. <https://doi.org/10.3389/fcell.2022.713934>
23. Latifa Alghfeli, Divyasree Parambath, Shaista Manzoor, Helmtrud I. Roach, Richard OC Oreffo, Ahmed T. El-Serafi (2021). Synthesis of Scaffold-Free, Three Dimensional, Osteogenic Constructs Following Culture of Skeletal Osteoprogenitor Cells on Glass Surfaces. *Bone Reports* 15: 101143. <https://doi.org/10.1016/j.bonr.2021.101143>
24. Amir Ali Khan, Muhammad Nasir Khan Khattak, Divyasree Parambath, Ahmed Taher El-Serafi (2021). Significant transcriptomic changes are associated with the inhibitory effects of 5-aza-2-deoxycytidine during adipogenic differentiation of MG-63 cells. *Saudi Journal of Biological Sciences* 28: 7336–7348. <https://doi.org/10.1016/j.sjbs.2021.08.033>
25. Cathrine Lagerwal, Hady Shahin, Sallam Abdallah, Ingrid Steinvall, Moustafa Elmasry, Folke Sjöberg, Ahmed T. El-Serafi (2021). Xeno-free workflow exhibits comparable efficiency and quality of keratinocytes isolated from human skin biopsies. *Regenerative Therapy* 18: 401-407. <https://doi.org/10.1016/j.reth.2021.09.005>
26. Ingrid Steinvall, Moustafa Elmasry, Islam Abdelrahman, Ahmed El-Serafi, Folke Sjöberg (2021). Addition of admission lactate levels to Baux score improves mortality prediction in severe burns. *Scientific Reports* 11:18038. <https://doi.org/10.1038/s41598-021-97524-9>
27. Ahmed El-Serafi, Rui He, Wenyi Zheng, Fadwa Benkossou, Sandra Oerther, Ying Zhao, Karin Mellgren, Britt Gustafsson, Carsten Heilmann, Jukka Kanerva, Kouros Lotfi, Jacek Toporski, Mikael Sundin, Martin Höglund, Jonas Mattsson, Ibrahim El-Serafi and Moustapha Hassan (2021). Vitamin D Levels and Busulphan Kinetics in Patients Undergoing Hematopoietic Stem Cell Transplantation, a Multicenter Study. *Bone Marrow Transplantation* 56:807–817. <https://doi.org/10.1038/s41409-020-01091-y>
28. Amir Ali Khan, Tee Jong Huat, Abdullah Al Mutery, Ahmed Taher El-Serafi, Hassen Hadj Kacem, Sallam Hasan Abdallah, Muhammed Faruque Reza, Jafri Malin Abdullah and Hasnan Jaafar (2020). Significant transcriptomic changes are associated with differentiation of bone marrow-derived mesenchymal stem cells into neural progenitor-like cells in the presence of bFGF and EGF. *Cell & Bioscience* 10:126. <https://doi.org/10.1186/s13578-020-00487-z>
29. Hady Shahin, Moustafa Elmasry, Ingrid Steinvall, Katrin Markland, Pontus Blomberg, Folke Sjöberg, Ahmed El-Serafi (2020). Human Serum Albumin as a Clinically Accepted Cell Carrier Solution for Skin Regenerative Application. *Scientific Reports* 10:14486. <https://doi.org/10.1038/s41598-020-71553-2>
30. Maha Guimei, Sana Mahmoud Alrouh, Maha Saber-Ayad, Shirin Hafezi, Arya Vinod, Surendra Rawat, Yazan Wardeh, Tala Mohamad Bakkour, Ahmed Taher El-Serafi (2020). Inhibition of Yes-associated-Protein-1 (YAP1) enhances the response of invasive breast cancer cells to the standard therapy. *Breast Cancer: Targets and Therapy* 12:189-199. <http://doi.org/10.2147/BCTT.S268926>
31. Hady Shahin, Moustafa Elmasry, Ingrid Steinvall, Folke Sjöberg, Ahmed El-Serafi (2020). Vascularization is the next challenge for skin tissue engineering as a solution for burn management. *Burns and Trauma* 2020:8. <https://doi.org/10.1093/burnst/tkaa022>

32. Matilda Karlsson, Ingrid Steinvall, Pia Olofsson, Johan Thorfinn, Folke Sjöberg, Liselott Åstrand, Safa Fayiz, Ahmad Khalaf, Divyasree Parambath, Ahmed T. El-Serafi, Moustafa Elmasry (2020). Sprayed cultured autologous keratinocytes in the treatment of severe burns: a retrospective matched cohort study. *Annals of Burns and Fire Disasters* 33:134-142. <https://pubmed.ncbi.nlm.nih.gov/articles/PMC7452605/>
33. Ahmed El-Serafi and Ibrahim El-Serafi (2020). The potentiality of histone deacetylase inhibitors for diabetes and obesity. In P. Castelo-Branco and C. Jeronimo (Ed), *Translational Epigenetics, Volume 20: Histone Modifications in Therapy*, Academic Press 361-371. <https://doi.org/10.1016/B978-0-12-816422-8.00015-5>
34. Waseem El-Huneidi, Naglaa G Shehab, Khuloud Bajbouj, Arya Vinod, Ahmed El-Serafi, Jasmin Shafarin, Lara J Bou Malhab, Wael M. Abdel-Rahman, Eman Abu-Gharbieh (2020). *Micromeria fruticosa* induces cell cycle arrest and apoptosis in breast and colorectal cancer cells. *Pharmaceuticals* 13:115. <https://doi.org/10.3390/ph13060115>
35. Ibrahim Elsharkawi, Divyasree Parambath, Maha Saber, Amir Ali Khan, Ahmed T. El-Serafi (2020). Exploring the effect of epigenetic modifiers on developing insulin-secreting cells. *Human Cell* 33: 1. <https://doi.org/10.1007/s13577-019-00292-y>
36. Iman Talaat, Rania Abdelmaksoud, Maha Guimei, Naglaa Agamia, Ahmed Nugud, Ahmed El-Serafi (2019). Potential Role for MicroRNA-16 (miR-16) and MicroRNA-93 (miR-93) in Diagnosis and Prediction of Disease Progression in Mycosis Fungoides in Egyptian Patients. *Plos One* 14: e0224305. <https://doi.org/10.1371/journal.pone.0224305>
37. Ahmed El-Serafi, Divyasree Sandeep, Sallam Abdallah, Yasmin Lozanson, Moawia Hamad and Amir Khan (2019). Paradoxical effects of the Epigenetic Modifiers 5-Aza-Deoxycytidine and Suberoylanilide Hydroxamic Acid on Adipogenesis. *Differentiation* 106: 1-8. <https://doi.org/10.1016/j.diff.2019.02.003>
38. Hany A. Omar, Ahmed T. El-Serafi, Fatema Hersi, El-Shaimaa A. Arafa, Dana M. Zaher, Mohamed Madkour, Hany H. Arab and Mai F. Tolba (2019). Immunomodulatory MicroRNAs in Cancer: Targeting Immune Checkpoints and the Tumor Microenvironment. *FEBS* 286: 3540–3557. <https://doi.org/10.1111/febs.15000>
39. Mohammad Madkour, Ahmed El-Serafi, Haitham Jahrami, Rasha Hassan, Nagla Sherif, Samir Awadallah, MoezAllIslam Faris (2019). Ramadan diurnal intermittent fasting modulates SOD2, TFAM, Nrf2, and sirtuins (SIRT1, SIRT3) gene expressions in subjects with overweight and obesity. *Diabetes Research and Clinical Practice* 155: 107801. <https://doi.org/10.1016/j.diabres.2019.107801>
40. Mona Farouk Mansour, Sahar Mansour Greish, Ahmed Taher El-Serafi, Howyda Abdelal, Yasser Mohamed El-Wazir (2019). Therapeutic Potential of Human Umbilical Cord Derived Mesenchymal Stem Cells on Rat Model of Liver Fibrosis. *Am J Stem Cells* 8:7-18. <https://pubmed.ncbi.nlm.nih.gov/31139493/>
41. Ibrahim Elsharkawi, Divyasree Sandeep and Ahmed El-Serafi (2019). Investigating the Role of the Histone Deacetylase-Inhibitor Suberanilohydroxamic Acid in the Differentiation of Stem Cells into Insulin Secreting Cells. *Hamdan Medical Journal* 12: 10-14. https://doi.org/10.4103/HMJ.HMJ_29_18

42. Wafaa S Ramadan, Cijo George Vazhappilly, Ekram M Saleh, Varsha Menon, Aya M AlAzawi, Ahmed T El-Serafi, Wael Mansour and Raafat El-Awady (2019). Interplay between Epigenetics, Expression of Estrogen Receptor- α , HER2/ERBB2 and Sensitivity of Triple Negative Breast Cancer Cells to Hormonal Therapy. *Cancers* 11:13. <http://dx.doi.org/10.3390/cancers11010013>
43. Maha Saber-Ayad, Shaista Manzoor, Ahmed El-Serafi, Ibrahim Mahmoud, Salah Abusnana, Nabil Sulaiman (2019). The FTO allele rs9939609 “A” is associated with impaired fasting glucose and insulin resistance in Emirati Population. *Gene* 681: 83-98. <https://doi.org/10.1016/j.gene.2018.09.053>
44. Ibrahim El-Serafi, Mats Remberger, Ahmed El-Serafi, Fadwa Benkessou, Wenyi Zheng, Eva Martell, Per Ljungman, Jonas Mattsson, and Moustapha Hassan (2018). The effect of N-acetyl-l-cysteine (NAC) on liver toxicity and clinical outcome after hematopoietic stem cell transplantation. *Scientific Reports* 8: 8293. <http://dx.doi.org/10.1038/s41598-018-26033-z>
45. Ahmed Nugud, Divyasree Sandeep and Ahmed El-Serafi (2018). Two faces of the coin: Minireview for dissecting the role of reactive oxygen species in stem cell potency and lineage commitment. *Journal of Advanced Research* 14: 73-79. <https://doi.org/10.1016/j.jare.2018.05.012>
46. Maha Saber-Ayad, Ahmed El-Serafi, Ibrahim Mahmoud, Salah Abusnana, Shaista Manzoor, Nabil Sulaiman (2018). Statin-induced myopathy SLCO1B1 521T>C is associated with Prediabetes, high Body mass index and normal lipid profile in Emirati Population. *Diabetes Research and Clinical Practice* 139: 272-277. <https://doi.org/10.1016/j.diabres.2018.03.014>
47. Ahmed T El-Serafi, Moustafa Elmasry and Folke Sjöberg (2018). Cell Therapy, the Future Trend for Burn Management. *Editorial in Clinics in Surgery* 3:1896. <https://www.clinicsinsurgery.com/open-access/cell-therapy-the-future-trend-for-burn-management-3325.pdf>
48. Ahmed A Nugud, Ibrahim El-Serafi, Ahmed T El-Serafi. Three-dimensional culturing models for bone development (2018). *Advances in Tissue Engineering and Regenerative Medicine* 4:124–125. <https://doi.org/10.15406/atroa.2018.04.00089>
49. Mohamed R. Ahmed, Yasser T. Madian, Mohammed T. El-Tabbakh, Ahmed T. El-Serafi, Gamela M. Nasr, Waheed F. Hessem (2018). Correlation between dyslipidemia and severity of allergic rhinitis. *The Egyptian Journal of Otolaryngology* 34: 111-115. https://doi.org/10.4103/ejo.ejo_90_17
50. Khuloud Bajbouj, Jasmin Shafarin, Jagan Sundaram, Hilda Allam, Mohamed Madkour, Samir Awadallah, Ahmed El-Serafi, Divyasree Sandeep and Mawieh Hamad (2017). Elevated Levels of Estrogen Suppress Hecpidin Synthesis and Enhance Serum Iron Availability in Premenopausal Women. *Experimental and Clinical Endocrinology & Diabetes* 125: 1–7. <https://doi.org/10.1055/s-0043-124077>
51. Ahmed T. El-Serafi (2017). Epigenetic Modifiers as an Additive to Stem Cells Differentiation Protocols. Letter to Editor in the *Journal of Stem Cells Research, Reviews & Reports* 4: 1024. <https://austinpublishinggroup.com/stem-cells/fulltext/jscr-v4-id1024.pdf>
52. Ahmed T. El-Serafi, Ibrahim El-Serafi, Moustafa Elmasry, Ingrid Steinvall, Folke Sjöberg (2017). Skin Regeneration in Three Dimensions, Current Status, Challenges and Opportunities. *Differentiation* 96: 26-29. <https://doi.org/10.1016/j.diff.2017.06.002>

53. Farheen Alam, Fatima Mezhal, Hussain EL Hasasna, Vidhya A Nair, Aravind S.R., Maha Saber Ayad, Ahmed El-Serafi and Wael Abdel-Rahman (2017). The role of p53 -microRNA 200 - Moesin axis in invasion and drug resistance of breast cancer cells. *Tumour Biology* 39: 1-11. <https://doi.org/10.1177/1010428317714634>
54. Mai Tolba, Ahmed El-Serafi and Hany Omar (2017). Caffeic acid phenethyl ester protects against glucocorticoid-induced osteoporosis in vivo: Impact on oxidative stress and RANKL/OPG signals. *Toxicology and Applied Pharmacology* 324: 26–35. <https://doi.org/10.1016/j.taap.2017.03.021>
55. Riyad Bendardaf, Ahmed El-Serafi, Kari Syrjänen, Yrjö Collan and Seppo Pyrhönen (2017). The Effect of Vascular Endothelial Growth Factor-1 Expression on Survival of Advanced Colorectal Cancer Patients. *Libyan Journal of Medicine* 12: 1290741. <https://doi.org/10.1080/19932820.2017.1290741>
56. Mohammad H Hussein, Irene M. Sabry, Ahmed T. El Serafi, Eman A. Toraih, Khaled E. Sobhy (2017). Beta2-adrenergic Receptor Gene Haplotypes and Bronchodilator Response in Egyptian Patients with Chronic Obstructive Pulmonary Disease. *Advances in Medical Sciences* 26: 1. <https://doi.org/10.1016/j.advms.2016.07.008>
57. Jasmin Shafarin, Khuloud Bajbouj, Ahmed El-Serafi, Divyasree Sandeep and Mawieh Hamad (2016). Estrogen-Dependent Downregulation of Hepcidin Synthesis Induces Intracellular Iron Efflux in Cancer Cells *in vitro*. *Biology and Medicine* 8:356. <https://www.walshmedicalmedia.com/open-access/estrogendependent-downregulation-of-hepcidin-synthesis-induces-intracellular-iron-efflux-in-cancer-cells-in-vitro-0974-8369-1000356.pdf>
58. Ahmed El-Serafi, Sara Osama, Hussein El-Zalat, Ibrahim Mohey EL-Deen (2016). Dysregulation of the Male Sex Hormones in Chronic Hepatitis C Patients. *Andrologia* 48: 82-86. <https://doi.org/10.1111/and.12425>
59. Moustapha Hassan and Ahmed T. El-Serafi (2015). Personalized Treatment: The Future of Medicine. A Perspective on the Preconditioning for Stem Cell Transplantation. *Editorial in MOJ Cell Science and Report* 2: 00032. <https://doi.org/10.15406/mojcsr.2015.02.00032>
60. Raafat A. El-Awady, Fatema Herzi, Hala Al-Tunaiji, Ekram M. Saleh, Abdel-Hady A. Abdel-Wahab, Amer Al Homssi, Mousa Suhail, Ahmed El-Serafi and Taleb Al-Tel (2015). Epigenetics and miRNA as predictive markers and targets for lung cancer chemotherapy. *Cancer Biology and Therapy* 16: 1056-1070. <https://doi.org/10.1080/15384047.2015.1046023>
61. Randa M. Mostafa, Ahmed T. El-Serafi and Ayman Shafei (2015). The Stolen Dreams, Endocrine Disrupting Chemicals and Childhood Obesity. *Medico Research Chronicles* 2: 564-571. <https://medrech.com/index.php/medrech/article/view/123>
62. Hatem Sallam*, Ahmed T. El Serafi*, Elisabeth Filipiski, Ylva Tereliusd, Francis Lévi and Moustapha Hassan (2015). The effect of circadian rhythm on pharmacokinetics and metabolism of the Cdk inhibitor, roscovitine. *Chronobiology International* 32: 608-614. <https://doi.org/10.3109/07420528.2015.1022782> (* equal contribution)
63. Shymaa Maher, Eman Kolieb, Nagwan A Sabik, Dalia Abd-Elhalim, Ahmed T El-Serafi* and Yasser El-Wazir (2015). Comparison of the Osteogenic Differentiation Potential of Mesenchymal Cells Isolated from Human Bone Marrow, Umbilical Cord Blood and Placenta Derived Stem Cells. *Beni-Suef University Journal of Basic and Applied Sciences* 4: 80-85. <https://doi.org/10.1016/j.bjbas.2015.02.011> (*corresponding author)

64. Mohamed Hosni, Eman Toreih and Ahmed El-Serafi (2015). Beta 2 Adrenergic Receptor Gene Polymorphism in COPD, Lambert Academic Publishing. <https://www.morebooks.shop/shop-ui/shop/product/978-3-659-80847-0>
65. Gehan H. Ibrahim, Fawzy A. Khalil, Taghrid B. El-Abaseri, Fadia M. Attia and Ahmed T. El-Serafi (2013). Impact of Interleukin- 28b Gene Polymorphism (Rs12979860) on Egyptian Patients Infected with Hepatitis C Virus Genotype-4. Eastern Mediterranean Health Journal 19 S2: S98-S104. <https://pubmed.ncbi.nlm.nih.gov/24995768/>
66. Taher I. El Serafi, Mohamed M. Awad, Loaa A. Tag Eldeen, Ahmed T. EL Serafi, Marwa Husin (2013). Effect of interleukin-6 and insulin resistance on early virological response of Egyptian chronic hepatitis C patients to combined pegylated interferon plus ribavirin therapy. Egyptian Liver Journal 3: 21-27. https://journals.lww.com/eglj/fulltext/2013/04000/effect_of_interleukin_6_and_insulin_resistance_on.1.aspx
67. Ahmed T. El-Serafi (2012). Epigenetic Modifiers and Stem Cell Differentiation. In M.A.Hayat (Ed), Stem Cells and Cancer Stem Cells, Volume 8: Therapeutic Applications in Disease and Injury, Springer 147-154. https://doi.org/10.1007/978-94-007-4798-2_14
68. Emad F. Ismail, Amany El-Kazaz, Ahmed T. El-Serafi, May Ibrahim (2012). Role of Insulin Like Growth Factor-1 and Insulin Like Growth Factor Binding Protein-3 in Patients of Coronary Artery Disease Attending Suez Canal University Hospital. Bulletin of Egyptian Society for Physiological Sciences 32: 293- 308. <https://doi.org/10.21608/besps.2012.35932>
69. Ahmed T. El-Serafi, David I. Wilson, Helmtrud I. Roach and Richard O.C. Oreffo (2011). Developmental Plasticity of Human Fetal Femur-derived Cells in Pellet Culture: Self-assembly of an Osteoid Shell around a Cellular/cartilaginous Core. European Cells and Materials 21: 558-567. <https://doi.org/10.22203/eCM.v021a42>
70. Ahmed T. El-Serafi, Richard O.C. Oreffo and Helmtrud I. Roach (2011). Epigenetic Modifiers Influence Lineage Commitment of Human Bone Marrow Stromal Cells: Differential Effects of 5-Aza-Deoxycytidine and Trichostatin A. Differentiation 81: 35-41. <https://doi.org/10.1016/j.diff.2010.09.183>
71. Taher I. El Serafi, Loaa A. Tag Eldeen, Mohamed M. Awad, Ahmed T. El-Serafi, Marwa Husin (2011). Effect of Interleukin-6 and Insulin Resistance on Hepatic fibrosis in chronic hepatitis C patients. Journal of Medical Molecular Biotechnology 9: 15-32.
72. Ahmed T. El-Serafi, Richard OC Oreffo, Taher I. El-Serafi and Helmtrud I Roach (2009). Pellet Culture Adhered to Plastic Inserts, a New Cell Culture Model that Enhanced Osteogenic Differentiation of Fetal Derived Cells. Suez Canal University Medical Journal 12: 231-238.
73. Ahmed T. El-Serafi, Richard OC Oreffo, Taher I. El-Serafi and Helmtrud I Roach (2009). Enhancement of Chondrogenic Differentiation of Human Bone Marrow Stromal Cells with Trichostatin A, a Histone Deacetylase Inhibitor. Suez Canal University Medical Journal 12: 239-244.

Grants

(Total of AED 4,105,650 and SEK 17,220,008)

1. Ibrahim Elserafi, Ahmed Elserafy, Gehan Elakabawy, Walid Shaaban and Rania Zaarour. The role of Vorinostat and CID1067700 in skin regeneration and wound healing. Thumbay International Research Grant, UAE, 2025, AED 120,000.

2. Natalja Jacobsson, Ingrid Steinvall, Ahmed Elserafy, Matilda Karlsson and Moustafa Elmasry. Intraoperative transplantation of autologous skin cells in difficult-to-heal wounds, evaluation of a new treatment method at the Burn Injury Center in Linköping. ALF from Student to Docent, Sweden, 2024, SEK 712,008.
3. Linda Bojmar, Susana Cristobal, Anna Fahlgren, Karin Öllinger, Maria Jenmalm, Martin Hallbeck, Bijar Ghafouri, Robert Blomgran, Helen Karlsson, Lena Jonasson, Rosanna Chung and Ahmed Elserafy. ALF investment funds for research infrastructure, Sweden, 2024, SEK 582,000.
4. Pádraig D'Arcy, Peter Söderkvist, Mouna Tababi, Maria Jenmalm, Cibely C Fontes de Oliveira, Rosanna Chung, Daniel Appelgren, Henrik Green, Anita Öst, Oliver Grimm and Ahmed Elserafy. ALF investment funds for research infrastructure, Sweden, 2024, SEK 1,778,000.
5. Ibrahim Elserafi, Moustafa Elmasry, Ahmed Elserafy, Gehan Elakabawy, Mohamed Madkour, Amer Al Ani and Yehia Mohamed. The role of Vorinostat on skin regeneration. Ajman University funded research grant, UAE, 2022, AED 75,000.
6. Ahmed Elserafy. Cell-based therapy for chronic/difficult to heal wounds. Verification for utilization (VFT) fund. Linköping University, Sweden, 2022, SEK 48,000.
7. Folke Sjöberg, Ahmed Elserafy, Mikael Wiberg, Peyman Kelk, Paul Kingham, Moustafa Elmasry, Pontus Blomberg, Evy Lundgren-Åkerlund, Karl Mettinger and Antonio Sfiligoj. Development of Multilayered Tissue-Engineered Skin Construct (Phase 2). Center of Advanced Medical Products, Sweden, 2021, SEK 11,986,000.
8. Moustafa Elmasry, Ingrid Steinvall, Ahmed Elserafy, Sherif Elawa, Islam Abdelrahman, Sinan Dogan. Evidence-based plastic surgery, examination and validation of the most common treatment methods in plastic surgery. Forsknings-ALF 2021, Sweden, 2020, SEK 300,000.
9. Ahmed Elserafy, Folke Sjöberg, Fredrik Huss, Paul Kingham and Moustafa Elmasry. Development of Multilayered Tissue-Engineered Skin Construct with Decellularized Skin Scaffold. Center of Advanced Medical Products, Sweden, 2020, SEK 1,800,000.
10. Folke Sjöberg, Ahmed Elserafy, Bertil Kågedal, Dzeneta Nezirevic Dernroth and Håkan Hanberger. Characterization of early molecular markers for renal affection in burn injuries. Forsknings-ALF 2021, Sweden, 2020, SEK 700,000.
11. Folke Sjöberg, Bertil Kågedal, Ahmed Elserafy and Moustafa Elmasry. Exploration study of mechanisms behind kidney injury after major burns by early detection using kidney biomarkers. Forsknings-ALF 2020, Sweden, 2019. SEK 300,000.
12. Ahmed El-Serafi, Raafat El-Awady, Taleb Al-Tal and Ahmed Abaub. Investigating the role of histone deacetylase inhibitors synthesized in the University of Sharjah on stem cell differentiation into cartilage. University of Sharjah, UAE, 2018. AED 68,000.
13. Amir A. Khan, Ahmed El-Serafi, Abdelaziz Tlili, Khalid Bajjou, Hassan Kacem and AB Rani Samsudin. Unravelling the roles of miRNAs and IGF-1 in the enhanced differentiation of human dental pulp stem cells into neural progenitor-like cells in the presence of bFGF and EGF. University of Sharjah, UAE, 2018. AED 199,000.
14. Moawiah Hamad, Ahmed El-Serafi, Samir Awad Allah, Jalal Taneera, Jibrán Sualeh, Mohamed Ghalib and Khuloud Bajbouj. Iron Biology Research Group Operational Grant, UAE, 2018. AED 80,000.

15. Adel Elmoselhi, Mohamed Seif and Ahmed T El-Serafi. Effect of Extended Vitamin D Supplement on Endothelial Dysfunction in Adult Middle-aged Obese and Vitamin D3 Deficiency Individuals in UAE Population. Sheikh Hamdan Bin Rashid Al Maktoum Award for Medical Sciences, Dubai, UAE, 2017. AED 200,000.
16. Rifat Hamoudi, Riyad Bendardaf, Fathi Azribi, Iman Talaat, Majd Jundi, Samrein Ahmed, Ahmed El-Serafi, Raafat El-Awady. The role of HER2, estrogen and progesterone receptors in breast cancer pathogenesis within the UAE population. Al Jalila Foundation, Dubai, UAE, 2017. AED 298,000.
17. Bashair Moussa and Ahmed T El-Serafi. Beta cell function and failure: a focus on the interaction between peripheral cholinergic pathway and nitric oxide to regulate insulin secretion. University of Sharjah, UAE, 2017. AED 40,000.
18. Ahmed T El-Serafi, Safa' Fayiz Hasan, Ahmed Khalaf Ali. The generation of Human Stem Cell Derived 3D Skin Construct for the Management of Diabetic Ulcers. Boehringer Ingelheim Foundation research grants for students, UAE, 2017. AED 14,000.
19. Adel Elmoselhi, Mohamed Seif and Ahmed T El-Serafi. Role of the circulatory miRNAs as reliable markers and early signs for CVD in individuals suffering from obesity and vitamin D deficiency in UAE. University of Sharjah, UAE, 2016. AED 197,500.
20. Amir Khan, Ahmed T El-Serafi, Mohammad Haider and Abdeleziz Tlili. The role of mir-22 and the IGF-1 in the enhanced differentiation of very small embryonic-like stem cell (CD 133+) into neural progenitor-like cells in the presence of bFGF and EGF. University of Sharjah, UAE, 2016. AED 80,000.
21. Samrein Ahmed, Ahmed T El-Serafi and Wael Hassan. Studying the phosphorylation status of ShcD in melanoma upon oxidative stress: Evidence for new therapeutic target in melanoma. Al Jalila Foundation, Dubai, UAE, 2016. AED 270,000.
22. Hany Omar, Taleb Al-Tel, Ahmed T El-Serafi and El-Shaimaa Arafa. Energy Restriction as a Novel Approach Targeting Cancer Stem Cells Multi-Drug Resistance. Al Jalila Foundation, Dubai, UAE, 2016. AED 273,000.
23. Mo'ez Al-Islam Faris, Wael Hassan, Ahmed T El-Serafi and Al Moustafa Ala-Eddin. Mitochondrial and Metabolic Gene Profiling of Ramadan Intermittent Fasting in Metabolic Syndrome Patients. University of Sharjah, UAE, 2016. AED 200,000.
24. Mo'ez Al-Islam Faris and Ahmed T El-Serafi. Study of the Effect of Ramadan Intermittent Fasting on Oxidative Stress, Body Adiposity and Metabolic Markers as Affected by SIRT3 Gene Expression in Metabolic Syndrome Patients. University of Sharjah, UAE, 2016. AED 80,000.
25. Ahmed T El-Serafi, Ahmed Abd AlWahab Nugud, Dalia Ali Alhabahbeh and Leena AlKayyali. Interaction between Vitamin D and Busulfan in metabolism and cell survival. Boehringer Ingelheim Foundation research grants for students, UAE, 2016. AED 11,500.
26. Sahar Mohsin and Ahmed T El-Serafi. Effect of type II diabetes on postmenopausal rat bones. United Arab Emirates University, UAE, 2016. AED 400,000.
27. Moawiah Hamad, Ahmed El-Serafi, Samir Awad Allah, Jalal Taneera and Khuloud Bajbouj. Iron Biology Research Group Operational Grant, University of Sharjah, UAE, 2016. AED 120,000.

28. Amir Khan, Ahmed El-Serafi, Mohamed Heidar, Hassan Kacem and Khalid Bajou. Human Genetics and Stem Cells Research Group Operational Grant, University of Sharjah, UAE, 2016. AED 120,000.
29. Adel Elmoselhi, Ahmed El-Serafi, Laila Alkhouli, Muhammad Shaieb, Rand Hasanain, Ronda AlSamhouri. Exploring the role of GIP on stem cell differentiation as a potential therapeutic approach for osteoporosis and osteopenia. Boehringer Ingelheim Foundation research grants for students, UAE, 2016. AED 12,000.
30. Ahmed T El-Serafi, Adel Almoseilhy, Farhan Cyprian and Amir Khan. Characterization of an in vitro Three Dimensional Cell Culture System for Adipogenesis as a Model for Anti-Obesity Drugs Testing. Al Jalila Foundation, Dubai, UAE, 2015. AED 269,400.
31. Ahmed T El-Serafi, Farhan Cyprian, Nabil Suliman and Wael Hassan. Optimizing the Differentiation of Human Induced Pluripotent Stem Cells Derived from Diabetic Patients towards Insulin Secreting beta Cells of Pancreas. Sheikh Hamdan Bin Rashid Al Maktoum Award for Medical Sciences, Dubai, UAE, 2015. AED 167,500.
32. Badreya Khamis, Ahmed T El-Serafi, Farhan Cyprian and Wael Hassan. Bone Regeneration for Dental Transplantation. Sheikh Hamdan Bin Rashid Al Maktoum Award for Medical Sciences, Dubai, UAE, 2015. AED 100,000.
33. Nabil Suliman, Hamad Abdel Hadi, Ahmed T El-Serafi, Farhan Cyprian. Prevalence of Hepatitis C and B Infections in Sharjah, UAE. Sheikh Hamdan Bin Rashid Al Maktoum Award for Medical Sciences, Dubai, UAE, 2015. AED 157,450.
34. Ahmed T El-Serafi, Ahmed Abd AlWahab Nugud, El-Rasheed Hassan, Akram Khalid. Interaction between Vitamin D and Busulfan in metabolism and cell survival. Boehringer Ingelheim Foundation research grants for students, UAE, 2015. AED 14,000.
35. Moawiah Hamad, Farhan Cyprian, Ahmed El-Serafi and Samir Awad Allah. Iron Biology Research Group Operational Grant. University of Sharjah, UAE, 2015. AED 250,000.
36. Amir Khan, Ahmed El-Serafi, Farhan Cyprian and Mohamed Heidar. Human Genetics and Stem Cells Research Group Operational Grant. University of Sharjah, UAE, 2015. AED 100,000.
37. Ahmed T El-Serafi, Ahmad R Al-Shaye and Arab M Hamouda. Characterization of induced antiviral response in conjunction with epigenetic modifiers. Boehringer Ingelheim Foundation research grants for students, UAE, 2015. AED 13,000.
38. Maha Ayad, Nabil Sulaiman, Ahmed T El-Serafi, Hany Omar and Salahdeen Abusnana. Prevalence of statin-induced myopathy SLCO 1B1 gene polymorphism in Emirati population. University of Sharjah, UAE, 2015. AED 110,300.
39. Summer visit grant for the academic year 2013/2014 from the Research Board, University of Sharjah, UAE, 2014. AED 11,000.
40. Ahmed Taher El-Serafi. Studying the potential of growing osteogenic stem cell driven pellets on glass surfaces. University of Sharjah, UAE, 2014. AED 20,000.
41. Farhan Cyprian, Ahmed T. El-Serafi, Wael Hassan and Salem Choueib. Dissecting the role of nuclear factor-kappa B in chemo-resistance. Terry Fox Research Foundation, UAE, 2014. AED 97,000.

42. Ahmed T El-Serafi, Ghayth H Alawwa, Dalia A Al-habahbeh, Layal M Al Barghouthi, Shahd A Abasaed and Arab M Hammoudeh. Induction of interferon production using epigenetic modifiers, Boehringer Ingelheim Foundation research grants for students, UAE, 2014. AED 18,000.

Abstracts in Scientific Meetings

1. Enhancing Skin Regeneration and Wound Healing: The Therapeutic Potential of Vorinostat and CID1067700. Podium Communication in the 4th UAE Anatomy and Cell Biology Conference, Dubai, United Arab Emirates, 2025.
2. Development and evaluation of cell-based therapies for skin wounds. Oral presentation in the Wallenberg Centre for Molecular Medicine Symposium, Linköping University, Sweden, 2024.
3. Histone deacetylase inhibitor alters adipose derived stem cells transition towards epidermal cell lineage. Poster presentation at the 21st Swedish Proteomic Society Symposium, Gothenburg, Sweden, 2024.
4. Management of difficult-to-heal skin wounds with cell-based skin grafting. Oral presentation at the 2nd Healthy Longevity Symposium, Khalifa University, Abu Dhabi, United Arab Emirates, 2024.
5. Cell therapy for difficult-to-heal wounds: the past, present and future at Linköping University Hospital. Oral presentation at the Surgery Week, Karlstad, Sweden, 2024.
6. Treatment with integrin $\alpha 10\beta 1$ -selected mesenchymal stem cells promote wound healing and skin regeneration in a pig model. Oral presentation in the International Society for Cell and Gene Therapy Europe 2024 Regional Meeting, Gothenburg, Sweden, 2024.
7. Cell-based and cell-free management policies for burn victims and chronic wound patients. Oral presentation in the 8th Summer Meeting of Egyptian Society of Plastic and Reconstructive Surgeons. Alexandria, Egypt, 2024.
8. Multilayer tissue-engineered skin construct. Invited speaker in the Centre of Advanced Medicine Product Research and Development Meeting, Stockholm, Sweden, 2024.
9. Cell-based therapy in difficult-to-heal wounds, what is happening in Sweden? Invited Speaker at the Egyptian Medical Syndicate, Port-Said, Egypt, 2024.
10. Cell-based skin grafting, A regenerative solution for difficult-to-heal wounds. Rapid fire presentation in the 3rd UAE Anatomy and Cellular Biology Conference, Abu Dhabi, UAE, 2024.
11. What can we learn from the crosstalk between stem cells and keratinocytes in skin regeneration? Oral presentation in the 3rd UAE Anatomy and Cellular Biology Conference, Abu Dhabi, UAE, 2024.
12. Cell-based treatment of burn patients. Invited speaker in the 54th Annual Conference of the Egyptian Society of Plastic and Reconstructive Surgeons, Ain Sokhna, Egypt, 2024.
13. Cell-Based Skin Grafting. Oral presentation at 11th Euraps Research Council Annual meeting, Stockholm, Sweden, 2023.
14. miRNome and proteome profiling of human keratinocytes and adipose derived stem cells proposed miRNA-mediated regulations of epidermal growth factor and interleukin 1-alpha. Oral presentation at 11th Euraps Research Council Annual meeting, Stockholm, Sweden, 2023.

15. Directing adipose derived stem cells into epidermal-like cells through epigenetic modifiers-based protocol. Oral presentation at 11th Euraps Research Council Annual meeting, Stockholm, Sweden, 2023.
16. Histone deacetylase inhibitor alters adipose derived stem cells fate transition toward epidermal lineage. Oral presentation at 11th Euraps Research Council Annual meeting, Stockholm, Sweden, 2023.
17. Towards an Advanced Therapeutic Medicinal Product, Autologous Keratinocytes in Solution for Difficult-to-Heal Skin Wounds. Oral poster at 11th Euraps Research Council Annual meeting, Stockholm, Sweden, 2023.
18. Glass promotes differentiation and migration of keratinocyte monolayers: a fast-tracked and additive-free approach to deliver readily initiated epidermal cells favorable for wound repair applications. Oral poster at 11th Euraps Research Council Annual meeting, Stockholm, Sweden, 2023.
19. Beneath the skin: multi-frequency SFDI to detect thin layers of skin using light scattering. Presentation in Photonics in Dermatology and Plastic Surgery 2023 conference, San Francisco, CA, USA, 2023.
20. Histone deacetylase inhibitor regulatory mechanism of adipose derived stem cells epidermal differentiation. Poster presentation in Forum Scientium Summer Conference, Sweden, 2022.
21. Cell therapy approaches for difficult-to-heal skin wounds. Invited speaker in the Fourth Scientific Day for the Medical Biochemistry and Molecular Biology department, Suez Canal University, Egypt, 2022.
22. Towards a regenerative solution for skin loss; an overview of the activities at the R&D Unit for Skin and Cultured Cells, Linköping University Hospital. Invited speaker in the Scientific Presentations Series, Faculty of Pharmacy, Galala University, Egypt, 2022.
23. A Complete Workflow for Keratinocyte Production According to the European Medicines Agency Directives. Oral presentation in the 20th Congress of the International Society for Burn Injuries, virtual meeting, 2021.
24. Development and evaluation of cell-based therapies for skin wounds. Invited speaker in the Department of Medical Technology (IMT) seminar series, Linköping University, Sweden, 2021.
25. Evaluation of cell therapy for burn wound using spatial frequency domain imaging. On-demand oral presentation in SPIE - Photonics West conference, on-line meeting, 2021.
26. Problem-based versus Small Group Learning in Medical Education. Invited speaker in the Department of Biomedical and Clinical Sciences (BKV) meeting, Linköping University, Sweden, 2020.
27. Research and Development Unit for Skin and Cultured Cells. Invited speaker in the Hand and Plastic Surgery Department meeting, Linköping University Hospital, Sweden, 2020.
28. Development of multilayered tissue-engineered skin construct. Invited speaker in CAMP/Swelife-ATMP Project leaders' meeting, Stockholm, Sweden, 2020.
29. Research in Burn Care Advancement, What is happening in Linköping's laboratory? Invited speaker in HURS 2020, Linköping University, Sweden, 2020.

30. Expression of Yes-associated protein (YAP) in breast cancer is associated with cancer stem cell markers and its inhibition improves the response to hormonal therapy. Poster presentation in the 109th Annual Meeting of United States and Canadian Academy of Pathology, Los Angeles, USA, 2020.
31. Anti-tumor activity of the ethanolic extract of micromeria fruticosa on human breast and colon cancer cells. Poster presentation in Experimental Biology 2020, California, USA, 2020.
32. Establishing the role of biomaterial surface in osteogenic and adipogenic stem cell differentiation. Poster presentation in the 8th Pan Arab Human Genetics Conference, Dubai, UAE, 2020.
33. Regenerating skin on burn patients. Invited speaker at the IKE-Day, Linköping University, Sweden, 2019.
34. Development of multilayered tissue-engineered skin construct. Oral presentation in the Second Annual Advanced Therapy Medicines Products Conference, Gothenburg, Sweden, 2019.
35. Cord Blood Banking: knowledge and attitude among residents of Sharjah and Dubai. Poster presentation in the 7th Pediatric and Neonatal International Conference of the University Hospital Sharjah, Dubai, UAE, 2019.
36. The prognostic role of EGFR and HER2 protein and gene expression in urothelial bladder carcinoma. Poster presentation in the 2nd World Congress on Genetics & Genetic Disorders, Stockholm, Sweden, 2019.
37. The specific effect of the non-specific epigenetic modifiers on stem cell differentiation. Invited speaker in the 2nd annual conference of the Center of Excellence in Molecular and Cellular Medicine: Recent Advances in Molecular & Cellular Medicine, Ismailia, Egypt, 2018.
38. P63 leads the stem cell differentiation in the skin. Oral presentation in the Basic Medical Sciences Seminar Series, College of Medicine, University of Sharjah, Sharjah, UAE, 2018.
39. Stem cells as a solution for bone and cartilage degenerative diseases. Invited speaker in the 3rd Emirates Osteoporosis Society Conference, Abu Dhabi, UAE, 2018.
40. Stem cells, epigenetic modifiers and 3D culture: The journey of the Hobbit! Oral presentation in 'We Speak Science' event, Sharjah, UAE, 2018.
41. Intermittent fasting during ramadan ameliorates antioxidant gene expression in adults with obesity. Oral presentation in the Second International Scientific Conference of Faculty of Science, Hurghada, Egypt, 2018.
42. Interaction between vitamin D and busulfan in metabolism and cell survival. Poster presentation in the 7th Pan Arab Human Genetics Conference, Dubai, UAE, 2018.
43. Counteracting roles of epigenetic modifiers in stem cell differentiation into the adipogenic lineage. Poster presentation in the 25th Anniversary Congress of the European Society of Gene and Cell Therapy, Berlin, Germany, 2017.
44. Stem cells differentiation into insulin secreting cells under the influence of the epigenetic modifiers 5-aza-2'-deoxycytidine and suberanilohydroxamic acid. Poster presentation in the 25th Anniversary Congress of the European Society of Gene and Cell Therapy, Berlin, Germany, 2017.
45. Effect of surface material on stem cell differentiation. Oral presentation in Middle East molecular biology congress and exhibition Annual Congress: Molecular Advancements toward Precision Medicine – Bench to Bedside, Abu Dhabi, UAE, 2017.

46. Investigating the role of DNA demethylating agent 5-aza-2-deoxycytidine and histone deacetylase inhibitor suberanilohydroxamic acid in stem cell differentiation into beta cells. Poster presentation in Translational Opportunities in Stem Cell Research; ISSCR, Basel Stem Cell Network and StemBANCC 2017 International Symposium, Basel Switzerland, 2017.
47. Modulation of adipogenesis by the epigenetic modifiers 5-aza-deoxycytidine and suberoylanilide hydroxamic acid. Poster presentation in Translational Opportunities in Stem Cell Research; ISSCR, Basel Stem Cell Network and StemBANCC 2017 International Symposium, Basel Switzerland, 2017.
48. Opposing roles for DNA methylation and histone deacetylation inhibitors in controlling adipogenic differentiation. Poster presentation in CiRA/ISSCR International Symposium, Kyoto, Japan, 2016.
49. Can epigenetic modifiers advance the stem cell differentiation? Keynote Speaker in the Global Forum on Transplantation Research and Technologies, Dubai, UAE, 2016.
50. Can stem cells help osteoporotic patients? Invited speaker in the 2nd Emirates Osteoporosis Society Conference, Dubai, UAE, 2016.
51. Differential role of epigenetic modifiers with stem cells. Invited speaker in the 2nd Current Trends in Biotechnology International Conference, Manipal University, Dubai, UAE, 2016.
52. Investigating the role of epigenetic modifiers 5-aza-2-deoxycytidine and suberanilohydroxamic acid in the differentiation of stem cells into insulin secreting cells. Poster presentation in the 2nd Current Trends in Biotechnology International Conference, Manipal University, Dubai, UAE, 2016.
53. Can epigenetic modifiers help in fat regeneration and fat loss? Oral presentation in the 7th International Conference on Drug Discovery and Therapy, Sharjah UAE, 2016.
54. The effect of vitamin D on the patients' exposure to busulphan. Oral presentation in the 7th International Conference on Drug Discovery and Therapy, Sharjah UAE, 2016.
55. Can epigenetic modifiers help in designing a human-based adipogenic model for anti-obesity drug testing? Poster presentation in the 6th Pan Arab Human Genetics Conference, Dubai, UAE, 2016.
56. Counterplay between vitamin D and busulphan metabolism in the preconditioning for stem cells transplantation. Poster presentation in the 6th Pan Arab Human Genetics Conference, Dubai, UAE, 2016.
57. Can glass be the answer for *in-vitro* bone differentiation? Oral presentation in the 5th World Congress on Cell & Stem Cell Research, Chicago, Illinois, USA, 2015.
58. Enhancing the differentiation of stem cells in a scaffold-free three dimensional pellets. Invited speaker in the Current Trends in Biotechnology International Conference, Manipal University, Dubai, UAE, 2015.
59. Induction of the antiviral response with two epigenetic modifiers in murine ex-vivo model. Poster presentation in the Current Trends in Biotechnology International Conference, Manipal University, Dubai, UAE, 2015.
60. Differential effect of epigenetic modifiers. Oral presentation in the 1st Middle East molecular biology congress and exhibition, Dubai, UAE, 2014.
61. Three dimensional scaffold-free models for bone regeneration. Session speaker in 3rd Biotechnology World Congress, Dubai, UAE, 2014.

62. Three dimensional scaffold-free models for bone regeneration. Oral presentation in “What’s up in Health?” program, Medical and Health Sciences Colleges, University of Sharjah, UAE, 2013.
63. Bone and cartilage regeneration by bone marrow stem cells. Guest Speaker Presentation in the School of Medicine, United Arab of Emirates University, Al-Ain, UAE, 2013.
64. Stem cells, beyond hematology. Guest Speaker in Dubai Cord Blood Research Centre, Dubai, UAE, 2013.
65. Role of DNA demethylation agent 5-aza deoxycytidine in the production of von willebrand factor in human bone marrow derived cells cultured in 3D pellets. Poster presentation in the 17th Congress of the European Haematology Association, Amsterdam, Netherland, 2012.
66. Stem cell application in bone diseases. Oral presentation in the Scientific Research Day of Physiology Department, Suez Canal University Hospital, Ismaillia, Egypt, 2012.
67. Stem cells, the building blocks of tomorrow’s medicine. Oral presentation in the opening session of the Medical Research Centre lectures series, Ismaillia, Egypt, 2011.
68. Preferential effect of epigenetic modifiers on stem cells differentiation. Oral presentation in the annual conference of the Biochemistry department, Recent advances in molecular medicine, Suez Canal University, Ismaillia, Egypt, 2011.
69. Fetal derived cells: another source of pluripotent cells. Oral presentation in the 3rd Annual Scientific Conference of Medical Biochemistry Department, Faculty of Medicine, Mansoura University, Egypt, 2010.
70. The DNA methylation inhibitor 5-aza-deoxycytidine enhances osteogenic differentiation of human skeletal stem cells: epigenetic approaches to bone tissue regeneration. Poster presentation in the 37th European Symposium on Calcified Tissues, Glasgow, UK, 2010.
71. Heart regeneration. Two approaches and one target. Oral lecture in the 10th meeting of Port-Said committee for Diabetes, Port-Said, Egypt, 2010.
72. Epigenetic modifiers, a new trigger for stem cells differentiation. Oral presentation in the Egyptian Society of Biochemistry and Molecular Biology Annual meeting. Ain Shams University, Cairo, Egypt, 2010.
73. DNA demethylating agent could enhance vascularization of human bone marrow derived cells cultured in three dimensions. Oral presentation in the 11th International Conference of Thalassemia. Cairo International Conference Centre, Cairo, Egypt 2010.
74. Regenerative medicine, where do we stand? Oral lecture in the workshop ‘Stem Cells Updates, Role of Nursing’. School of Nursing, Suez Canal University, Port-Said, Egypt, 2010.
75. A centre of excellence for cellular & molecular medicine research: a model for the egyptian universities pathway to research excellence. Oral presentation in the 36th Conference of the Association of Egyptian American Scholars, California, USA, 2009.
76. Enhanced osteoid formation in bone marrow stromal cells and fetal derived cells in self-organizing three dimensional constructs. Poster presentation in the United Kingdom National Stem Cell Network Second Annual Science Meeting, University of Oxford, 2009.
77. 3D tissue engineering models for osteogenesis. Poster presentation in the Tissue engineering: a new dimension to animal replacement symposium, London, UK, 2009.
78. Role of epigenetic modifiers in bone marrow stromal cell differentiation. Poster presentation in the 3rd UK Mesenchymal Stem Cell Meeting, University of Sheffield, 2009.

79. Enhancement of chondrogenic differentiation with trichostatin a, a histone deacetylase inhibitor. Poster presentation in the Epigenetics Mechanisms in Health and Disease -From Biology to Medicine, Said Business School, Oxford, UK, 2008.
80. Role of epigenetic modifiers in bone marrow stromal cell differentiation. Oral communication in the BRS (bone research society)-BORS (British orthopaedic research society) 2nd Joint Meeting, University of Manchester, Manchester, UK, 2008.
81. Role of epigenetic modifiers in bone marrow stromal cell differentiation. Oral presentation in the postgraduate annual conference of the Medicine, Health and Life Sciences, University of Southampton, UK, 2008.
82. Role of epigenetic modifiers in bone marrow derived stromal cells differentiation. Poster presentation in the 3rd UK stem cell meeting: Epigenetics and Differentiation, 2008.
83. Possible Role of Epigenetics in Bone Marrow Derived Stromal Cells Differentiation. Poster presentation in the postgraduate annual conference of the Medicine, Health and Life Sciences, University of Southampton, UK, 2007.
84. Diagnostic Performance of nuclear matrix protein 22 in bladder carcinoma. Oral presentation in the Annual congress of the School of Medicine, Suez Canal University, Egypt, 2005.

Patent

Evy Lundgren Åkerlund, Folke Sjöberg, Hooi Ching Lim, Ahmed Elserafy, Moustafa Elmasry (2024). Mesenchymal Stem Cells for use in the treatment of skin defects. Patent no. US20240245726A1, Date of Filing 2022-05-20 and Date of Publication 2024-07-25.

Awards

1. Excellence in Oral Presentation at the 2nd Healthy Longevity Symposium, Abu Dhabi, UAE, 2024.
2. Best Podium Presentation (2nd place) at the 3rd UAE Anatomy and Cellular Biology Conference, Abu Dhabi, UAE, 2024.
3. Second Jury Prize for Poster Presentation at Forum Scientium Summer Conference, Sweden, 2022.
4. Award of Honor, in the 2nd Annual Conference of the Center of Excellence in Molecular and Cellular Medicine: Recent Advances in Molecular & Cellular Medicine, Ismailia, Egypt, 2018.
5. Second Place Award in the 11th Research Forum of the University of Sharjah, Sharjah, UAE, 2017.
6. Best poster award in the 2nd Current Trends in Biotechnology International Conference, Manipal University, Dubai, UAE, 2016.
7. Outstanding Scientist Award, Regenerative Medicine track by Venus International Foundation, Channi, India, 2015.
8. Best poster award in the Current Trends in Biotechnology International Conference, Manipal University, Dubai, UAE, 2015.
9. Abstract award by the UAE Genetic Disease Association in the joint meeting of the 5th National Genetic Diseases Conference and the 1st Middle East Molecular Biology Congress and Exhibition, Dubai, UAE, 2014.

10. Travel award in the 17th Congress of the European Hematology Association, Amsterdam, Netherland, 2012.
11. Suez Canal Medical Students Association Honour Plaque, Ismaillia, Egypt, 2012
12. Certificate of Appreciation for International Publications 2010-2011, Suez Canal University, Egypt, 2011.
13. Rotary International Plaque, from Rotary International District 2450, Port-Said Rotary Club, Egypt, 2010.
14. BORS best oral presentation in the 2nd Joint Meeting of the Bone Research Society and British Orthopedic Research Society (BRS-BORS), University of Manchester, UK, 2008.
15. Egyptian Government PhD Studentship Award, 2005.

PhD Theses Supervised

1. Hard-to-heal leg ulcers - a project with cell-based treatment methods and investigation of the effect of pathophysiological and epidemiological factors on wound healing; PhD thesis by Ms Natalja Jacobsson, Faculty of Medicine and Health Sciences, Linköping University, Sweden, expected 2026.
2. Studying the Effect of Epigenetic Modifiers and Three-Dimensional Matrices on Enhancing the Epidermal Differentiation of Adipogenic Derived Stem Cells in Thermal Burn Wounds; PhD thesis by Miss. Sallam Abdallah, Faculty of Medicine and Health Sciences, Linköping University, Sweden, expected 2025. (Main supervisor)
3. Keratinocytes and Adipose-derived mesenchymal Stem Cells: The Heir and the Spare to regenerative cellular therapies for difficult-to-heal skin wounds; PhD thesis by Mr. Hadi Shahin, Faculty of Medicine and Health Sciences, Linköping University, Sweden, 2023. (Main supervisor)
4. Effect of Retinoic Acid and Wharton's Jelly-Derived Stem Cells on Renal Ischemia/Reperfusion Injury in Rats; PhD thesis by Ms. Mai Ibrahim, College of Medicine, Mansoura University, Egypt, 2021.
5. Role of Mesenchymal stem cells from different sources in hepatic regeneration in a liver disease rat model; PhD thesis by Mrs. Mona Farouk, College of Medicine, Suez Canal University, Egypt, 2015.

MSC Theses Supervised

1. Dose-Dependent Effects of Glucose on Proliferation, Stemness, Wound Healing, and Viability in the ASC52telo Human Stem Cell Line; 30 credits master thesis by Miss. Maria Karathanasi, Faculty of Medicine and Health Sciences, Linköping University, Sweden, 2025.
2. Influence of Glucose Concentration on Keratinocytes Viability and Proliferation; 30 credits master thesis by Miss. Sussana Chen Qiu, Faculty of Medicine and Health Sciences, Linköping University, Sweden, 2025.
3. Enhancing the Differentiation of Adipose-derived Stem Cells into Keratinocyte-Like Cells to Promote the Treatment Strategies for Chronic Wounds and Burns; 30 credits master thesis by Miss. Raghad Alghazali, University of Applied Sciences, Austria, 2024.

4. Effect of Conditioned Media on Mesenchymal Stem Cells Differentiation into Keratinocytes; 60 credits master thesis by Mr. Ahmed Nugud, University of Edinburgh, United Kingdom, 2024.
5. Investigating the Effect of IL1 on Adipose Tissue-Derived Stem Cell Differentiation into Keratinocytes; 30 credits master thesis by Miss. Safia El-Hadidi, Faculty of Medicine and Health Sciences, Linköping University, Sweden, 2024.
6. Bioinformatics Investigation of Suberoylanilide Hydroxamic Acid Potential for Wound Healing and Skin Regeneration; 45 credits master thesis by Mr. Mohamed Kashef, School of Health Sciences, Örebro University, Sweden, 2023.
7. Investigating the Role of the Renin-Angiotensin System in Adipose-Derived Stem Cell Differentiation into Keratinocyte-Like Cells; 30 credits master thesis by Miss. Raghad Alghazali, Faculty of Medicine and Health Sciences, Linköping University, Sweden, 2023.
8. Development of Multi-layered Tissue-Engineered Skin Construct with Decellularized Skin Scaffold; 30 credits master thesis by Miss. Maysoun Fares, Faculty of Medicine and Health Sciences, Linköping University, Sweden, 2023.
9. Investigation of a Histone Deacetylase Inhibitor's Effect on the Epidermal Differentiation of Adipose Tissue-Derived Stem Cells into Keratinocyte-Like Cells; 30 credits master thesis by Ms. Jennie Johansson, Faculty of Medicine and Health Sciences, Linköping University, Sweden, 2022.
10. Optimization of Differentiation Conditions of Adipose Derived Stem Cells into Epidermal Lineages; 30 credits master project by Ms. Alexandra Lorenz, Faculty of Medicine and Health Sciences, Linköping University, Sweden, 2021.
11. Characterization of Burnt Skin Cells; 30 credits master project by Ms. Temilola Ajifowowe, Faculty of Medicine and Health Sciences, Linköping University, Sweden, 2020.
12. Cellulose as a Carrier for Keratinocyte Like Cells Derived from Adipogenic Stem Cells; 30 credits master project by Ms. Sherin Susan Thomas, Faculty of Medicine and Health Sciences, Linköping University, Sweden, 2020.
13. Molecular Profiling of Preadipocytes Differentiation under the Influence of Epigenetic Modifiers; master thesis by Dr. Gomana El-Sheikh, College of Medicine, University of Sharjah, UAE, 2018.
14. Molecular Characterization of Three-Dimensional Models for Osteogenic Differentiation; master thesis by Ms. Latifa Aleghfeli, College of Medicine, University of Sharjah, UAE, 2017.
15. Investigating the Role of Epigenetic Modifiers 5-Aza-2-Deoxycytidine and Suberanilohydroxamic Acid in the Differentiation of Stem Cells into Insulin Secreting Cells; master thesis by Mr. Ibrahim Elsharkawi, College of Medicine, University of Sharjah, UAE, 2017.
16. Adipogenic Differentiation Potential of Stem Cells under the Influence of the Epigenetic Modifiers 5-Aza-2'-Deoxycytidine and Suberoylanilide Hydroxamic Acid; MSC thesis by Mrs. Yasmin Lozansson, College of Pharmacy, Uppsala University, Sweden, 2016.
17. Profiling of miRNA during induced antiviral response influenced by epigenetic modifiers 5-Aza-dC and SAHA; master thesis by Ms Fatma Ali, College of Medicine, University of Sharjah, UAE, 2015.

18. Biochemical studies on sex hormones' levels in hepatic patients; master thesis by Miss Sara Osama Temraz, College of Science, Port Said University, Egypt, 2015.
19. MicroRNA Expression, Chromatin Structure and Sensitivity to Anticancer Agents in Non-Small Cell Lung Cancer (NSCLC) Cells; master thesis by Miss Fatima Hersi, College of Medicine, University of Sharjah, UAE, 2014.
20. *In Vitro* Induction of Osteogenic Differentiation of Mesenchymal Stem Cells Derived from Human Bone Marrow and Placenta; master thesis by Miss Eman Koleib, Faculty of Medicine, Suez Canal University, Egypt, 2014.
21. Beta2-adrenergic Receptor Gene Polymorphisms and Bronchodilator Response in Chronic Obstructive Pulmonary Disease; master thesis by Mr. Mohamed Hosni Hussein, Faculty of Medicine, Cairo University, Egypt, 2014.
22. Comparative Analysis of Osteogenic Differentiation Potential between Bone Marrow Stem Cell and Cord Blood Cell; master thesis by Miss Shymaa Maher, Faculty of Medicine, Suez Canal University, Egypt, 2013.
23. Role of Insulin Like Growth Factor 1 and Insulin Like Growth Factor Binding Protein 3 in Patients of Coronary Artery Disease Attending Suez Canal University Hospital; master thesis by Miss May Ibrahim Abd El All, Faculty of Medicine, Suez Canal University, Egypt, 2012.

Teaching Experience

- Supervisor for literature study at the Advanced Immunology course, Master's Program in Experimental and Medical Biosciences, Linköping University, Sweden, 2024-2025.
- Instructor at Research Methodology in Biomedicine (8MEA17), Master's Program in Experimental and Medical Biosciences, Linköping University, Sweden, 2024-2025.
- Instructor at Stem Cells and Applied Regenerative Medicine (8MEA11), Master's Program in Experimental and Medical Biosciences, Linköping University, Sweden, 2023-2025.
- Instructor at Analytical Techniques in Experimental Biosciences (8MEA02), Master's Program in Experimental and Medical Biosciences, Linköping University, Sweden, 2023-2024.
- Supervisor of Miss Raghad Alghazali for Introductory Research preparation course (8FG034), Linköping University, Sweden, 2023.
- Examiner and instructor at Analytical Techniques in Experimental Biosciences (8MEA02), Master's Program in Experimental and Medical Biosciences, Linköping University, Sweden, 2021-2022 and 2022-2023.
- Examiner and instructor at Stem Cells and Applied Regenerative Medicine (8MEA11), Master's Program in Experimental and Medical Biosciences, Linköping University, Sweden, 2021-2022 and 2022-2023.
- Instructor at Analytical Techniques in Experimental Biosciences (8MEA02 2020HT 68), Master's Program in Experimental and Medical Biosciences, Linköping University, Sweden, 2020-2021.

- External examiner for the PhD theses
 - Antimicrobial peptides for topical treatment of bacterial wound infections by Emanuel Wiman, Department of Medical Sciences, Örebro University, Sweden, 2025.
 - Multifunctional Nanocellulose Composite Materials by Mr Olof Eskilson, Department of Physics, Chemistry and Biology (IFM), Linköping University, Sweden, 2023.
 - Impacts of Intermediate and Long-Term Vitamin D Deficiency on the Murine Gastric Epithelial Cells and Acid Secretion by Mrs Shaima Raji, Department of Biology, College of Science, United Arab Emirates University, UAE, 2022.
- Examiner for the master theses
 - Generation and 3D Culture of Human Trigeminal Neurons from Human Embryonic Stem Cells, by Mr. Morteza Jafari, Linköping University, Linköping, Sweden, 2024.
 - Characterizing minimalistic PEG- and HA-BCN-based hydrogels functionalized with ECM-mimicking biomaterials for use in oral tissue research, by Mr. Alexander Jenssen, Linköping University, Linköping, Sweden, 2023.
 - Investigation of fibroblast growth in 3D microenvironment for wound treatment, by Ms Aleksandra Zielinska, Linköping University, Linköping, Sweden, 2023.
 - In silico modelling of human keratinocyte cultures proliferation Kinetics, by Ms Napada Sanguanbun, Linköping University, Linköping, Sweden, 2023.
 - Transplantation of Autologous Fibroblasts Using Microcarriers Improves Healing of Porcine Wounds by Ms Rozalin Shamasha, Linköping University, Linköping, Sweden, 2022.
 - A melanoma spheroid model for studies of UV radiation and tubulin β -3 effects on cell viability and growth by Ms Zeinab Alkashaf, Linköping University, Linköping, Sweden, 2020.
 - Insights into the Role of L-Caldesmon, DDR1 and DDR2 in Colorectal and Breast Carcinomas by Miss Alya Al Nuaimi, University of Sharjah, Sharjah, UAE, 2018.
 - Analysis of Nitrous Oxide (NO) Induction in Human Cervical Cancer Cells by Various Chemo-preventive Agents, by Ms Zoha Shekfeh, Manipal University, Dubai, UAE, 2016.
 - The Correlation between Abnormal Pap Smears and HPV Genotypes in a Heterogeneous Female Population Attending the Iranian Hospital in Dubai, by Ms Sara, Manipal University, Dubai, UAE, 2016.
 - Conjugated Metal Nanoparticles for Cancer Therapy: Synthesizing, Characterizing and Testing Quercetin Conjugated Gold Nanoparticles for Cancer Treatment, by Ms. Sanjana Surendran, Manipal University, Dubai, UAE, 2016.
 - Study of Moesin regulation and effects in breast cancer cells by Dr. Farheen Alaam, University of Sharjah, 2014.
- Supervisor of the Summer Match Course, LEAD Business Incubator, Linköping, Sweden, 2024 for students
 - Emma Levin
 - Emma Sjöndin
- Supervisor of Miss Sawsan Qanadilo internship, Linköping University, Sweden, 2023.

- Supervisor of Miss Raghad Alghazali for Advanced research traineeship in biology I, Department of Biology Education, Stockholm University, Sweden, 2022.
- Undergraduate research student supervision.
 - Omar Hamdy Omar, Visiting Student from Suez Canal University, Egypt to Linköping University, September 2023.
 - Bethânia Lissa da Silva Rosa, Research Exchange Student by the International Federation of Medical Students' Associations, from Universidade Federal de Alfenas, Brasil, August 2022.
 - Elin Haag, Degree Project: The effect of HDAC inhibitor 'LMK-235' on the Differentiation of Adipose-Derived Stem Cells to Keratinocyte-like Cells; Medical Program, Faculty of Medicine and Health Sciences, Linköping University, Sweden, August 2021-January 2022.
 - Dåa Komush, Bachelor Thesis: Enhancing the differentiation of adipogenic stem cells towards epidermal cells through a miRNA-based approach; Experimental and Industrial Biomedicine Program, Faculty of Medicine and Health Sciences, Linköping University, Sweden, August 2021-January 2022.
 - Ahmed Marawan, Visiting Student from Alexandria University, Egypt to Linköping University, September 2019.
 - Georg Zdolsek, summer research, Faculty of Medicine and Health Sciences, Linköping University, Sweden, July-August 2018.
 - Mikael Järemo, summer research, Faculty of Medicine and Health Sciences, Linköping University, Sweden, July-August 2018.
- Supervisor for the field studies for Biomedical Analytical Program students
 - Arezo Khawari, 2024
 - Cham Nasri, 2024
 - Jonathan Svalö, 2023
 - Jasmina Jahic, 2023
 - Alma Salomonsson, 2022
 - Clara Månsson, 2022
 - Jonathan Kronstrand, 2020
- Coordinator and examiner of "Biomedical Genomics" course, Molecular Biology and Translational Medicine Master Program, College of Medicine, University of Sharjah, UAE, 2012-2018.
- Co-coordinator of the Molecular Biology and Translational Medicine Master Program, College of Medicine, University of Sharjah, UAE, 2014-2015.
- Coordinator and examiner of "Selected Topics in Molecular Biology" course, Molecular Biology and Translational Medicine Master Program, College of Medicine, University of Sharjah, UAE, 2013-2015.
- Coordinator and examiner of "Advanced Genetics" course, Molecular Biology and Translational Medicine Master Program, College of Medicine, University of Sharjah, UAE, 2012-2014, 2015-2016.

- Coordinator and examiner of the “Renal Unit”, 2nd year, College of Medicine, University of Sharjah, UAE, 2014-2018.
- Co-coordinator of the “Musculoskeletal Unit”, 1st year, College of Medicine, University of Sharjah, UAE, 2012-2014.
- Teaching Medical Genetics to undergraduate students, College of Medicine, University of Sharjah, UAE, 1st, 2nd and 3rd years, 2012-2018.
- Teaching Medical Genetics for year 1 students, College of Dentistry, University of Sharjah, UAE, 2012-2018.
- Teaching Medical Biochemistry to year 2 students, College of Dentistry, University of Sharjah, UAE, 2012-2015.
- Coordinator of the Biochemistry master course, Faculty of Medicine, Suez Canal University, Egypt, 2011-2012.
- Coordinator of the practical training for the Biochemistry master students, Faculty of Medicine, Suez Canal University, Egypt, 2010-2012.
- Coordinator and examiner of the Biochemistry course, Faculty of Nursing, Port-Said University, Egypt, 2009-2012.

Other Scientific and Academic Activities

- Member of the Editorial Board of Scientific Reports, Nature publications, since 2022.
- Investigator at clinical trial ‘NCT05549609’. XSTEM-VLU, a single-centre, randomised, single-blind Phase I/IIa study to evaluate the safety, tolerability and efficacy of a single topical dose of allogeneic integrin $\alpha 10\beta 1$ -selected mesenchymal stem cells in patients with difficult-to-heal venous leg ulcers, recruiting.
- Jury at ‘The Young Scientists Exhibition’, Sweden, 2025.
- Moderator of session ‘Role of regenerative Medicine in modern reconstructive surgery, in the Surgery Week 2024, Karlstad, Sweden, 2024.
- Chairperson of session IV ‘Skin Substitute, Skin Banking & Tissue Culture’ in the 54th Annual Conference of the Egyptian Society of Plastic and Reconstructive Surgeons, Ain Sokhna, Egypt, 2024.
- Mentor of PhD student Mohamed Ellabban, Linköping University, Sweden, 2021-2028.
- Member of the Selection Committee for Third Cycle Education position offered by Dr. Maria Zetterqvist, Linköping University, Linköping, Sweden, 2021.
- Member of the jury for Best Scientific Paper Award, HURS 2020, Linköping University, Linköping, Sweden, 2020.
- Presenter of the webinar ‘Fine tuning of stem cell differentiation by epigenetic modifiers’ in the Middle East Molecular Biology Society, 2018, http://membs.org/membs/education/webinar_details/MjMz .
- Chairman of Session VII in the 3rd Emirates Osteoporosis Society Conference, Abu Dhabi, UAE, 2018.
- Member of the Scientific Committee for the 4th Annual Congress and Exhibition of the Middle East Molecular Biology Society, Abu Dhabi, 2017.

- Member of the International Society for Stem Cell Research (ISSCR), 2017.
- Consultant for the Cell Culture Lab at Dubai Pharmacy College, Dubai, UAE, 2017.
- Poster session jury for
 - Second Future Pharmacists' Day, College of Pharmacy, University of Sharjah, 2018.
 - Students Research week, Medical Campus, University of Sharjah, 2017.
 - Students Research week, Medical Campus, University of Sharjah, 2016.
 - Pharmacy Scientific Day, College of Pharmacy, University of Sharjah, UAE, 2014.
- Chairman of the Research Committee, College of Medicine, University of Sharjah, UAE, 2015-2016.
- Organizer of the Scientific Writing Workshop, College of Medicine, University of Sharjah, UAE, 2016.
- Opening speech of the Students Research week, College of Medicine, University of Sharjah, UAE, 2016.
- Co-chairman of the 'CNS and Women Health Drug Discovery and Therapy' in the 7th International Conference on Drug Discovery and Therapy, Sharjah UAE, 2016.
- Member in the Advisory Committee for the Middle East Molecular Biology Society, 2016.
- Visiting researcher, Experimental Cancer Medicine, Department of Laboratory Medicine, Karolinska Institute, Stockholm, Sweden July – August 2015.
- Chairman of the 'Cell Therapy' session in the 8th Dubai International Conference for Medical Sciences, Dubai, UAE, 2014.
- Visiting researcher, Experimental Cancer Medicine, Department of Laboratory Medicine, Karolinska Institute, Stockholm, Sweden August – September 2014.
- Member of the Scientific Committee for the 8th Dubai International Conference for Medical Sciences, Dubai, UAE, 2014.
- Member of the Molecular Medicine and Translational Research domain in the University of Sharjah Strategic Research Committee 2013-2014.
- Co-chairman of the Medical Biotechnology/ Regenerative Medicine session, 3rd Biotechnology World Congress, Dubai, UAE, 2014.
- Instructor at the Continuous Education Program for Science Teachers, Sharjah UAE, the fifth round, 2014.
- Reviewer for
 - Current Molecular Medicine
 - Journal of Tissue Engineering and Regenerative Medicine
 - European Cells and Materials Journal
 - Bone
 - PLOS One
 - Cell Transplantation
 - Journal of Advanced Research
 - Diabetes and Vascular Disease Research

- Human Cell
- Heliyon
- Asian Pacific Journal of Cancer Prevention
- Medical Epigenetics (Second Edition), a book by Elsevier and Academic Press
- Member of the Asian-Pacific chapter of the Tissue Engineering and Regenerative Medicine International Society (TERMIS-AP).
- Member of the European Haematology Association.
- Advisor for the Medical Research Centre, Faculty of Medicine, Suez Canal University, Egypt.
- Supervisor of the Suez Canal Medical Student Association, Faculty of Medicine, Suez Canal University, Egypt 2009-2012.
- Coordinator of the annual conference of the Biochemistry department “Laboratory Research and Scientific Application” Suez Canal University, Ismaillia, Egypt, 2012.
- Coordinator of the annual conference of the Biochemistry department “Recent Advances in Molecular Medicine” Suez Canal University, Ismaillia, Egypt, 2011.

Clinical Experience

- Consultant A in Clinical Pathology, subspeciality Biochemistry, registration no. 151629 Egyptian Medical Syndicate, 2023.
- Executive manager, El-Serafi private lab, Port-Said, Egypt 2009-2012.
- Specialist in Clinical Biochemistry, registration no. 4509 Ministry of Health, Egypt, 2010.
- General practitioner, Egyptian Medical Syndicate registration no. 144638, 2002.
- Staff member and head of the Molecular Biology sector, El-Serafi private lab, Port-Said, Egypt, 2002 – 2006.
- General practitioner license no. 147638 Ministry of Health, Egypt, 2002.
- Internship: Ministry of Health Hospitals and Primary Care Health Units, Suez Canal Region, Egypt; 2001-2002.

Training Courses

- BootUp Business Development Program, LEAD Business Incubator, Linköping, Sweden. Spring 2024.
- Course Design and Implementation, Linköping University, Linköping, Sweden. 25th of August, 15th of September, 3rd and 20th of October, 10th and 24th of November and 15th of December 2023.
- Becoming a Teacher in Higher Education, Linköping University, Linköping, Sweden. 24th of August 7th and 29th of September, 11th of October, 6th and 28th of November and 11th of December 2023.
- Regulatory Basic Program; Introduction to MDR and IVDR, LiU Entrepreneurship and Development (LEAD), Linköping, Sweden, 15th of November and 5th of December 2023.
- Workshop on generative AI and exams, Medical Faculty, Linköping University, Linköping, Sweden, 4th of December 2023.

- Welcome course for Editorial Board Members, Scientific Reports Editorial Site, Nature Research, Online, 28th September 2022.
- Good Clinical Practice, NIDA Clinical Trials Network, Online, 26th September 2022.
- Quality in Medical Education, Center for Research and Development in Medical Education and Health Services, Suez Canal University, Ismaillia, Egypt, 14th April 2022.
- Program and Course Specifications & Reports, Center for Research and Development in Medical Education and Health Services, Suez Canal University, Ismaillia, Egypt, 14th April 2022.
- Research Team Management, Education Development Centre, Suez Canal University, Ismaillia, Egypt, 25th -26th January 2022.
- Questions Bank and Electronic Examination, Education Development Centre, Suez Canal University, Ismaillia, Egypt, 28th -29th August 2021.
- Strategical Planning, Education Development Centre, Suez Canal University, Ismaillia, Egypt, 8th -9th July 2020.
- International Scientific Publication, Education Development Centre, Suez Canal University, Ismaillia, Egypt, 15th -16th June 2020.
- GMP Basics for the Life Since Industry, Key2Compliance, Lidingo, Sweden, 10th May 2020.
- Problem Based Learning and small group tutorial, Linköping University, Linköping, Sweden. 14th, 15th & 22nd October, 11th November 2019.
- Research Supervision – advanced course in higher education pedagogy, Linköping University, Linköping, Sweden.
 - General Part, 16th & 17th October, 18th November 2019.
 - Medical Faculty-Specific Part, 3rd & 4th October, 22nd November 2019.
- PBL Facilitators Training, Faculty Development Program, University of Sharjah, Sharjah, UAE. 18th of October 2018.
- Multiple Choice Questions Item Analysis Workshop, Faculty Development Program, University of Sharjah, Sharjah, UAE. 29th of January 2018.
- Constructing Multiple Choice Questions Workshop, Faculty Development Program, University of Sharjah, Sharjah, UAE. 4th of December 2017.
- The Use of International Databases, Education Development Centre, Suez Canal University, Ismaillia, Egypt. 4th -5th January 2017.
- Students' Examination and Evaluation Systems, University Education Development Centre, Suez Canal University, Ismaillia, Egypt. 28th -29th December 2016.
- Research Ethics, Faculty Development Workshop, University of Sharjah, Sharjah, UAE, 9th February 2015.
- Assessment Item Writing Workshop, University of Sharjah and IDEAL Consortium, Sharjah, UAE, 11th -12th January 2014.
- Tutor preparation course, University Education Development Centre, Suez Canal University, Ismaillia, Egypt. 22nd -28th December 2010.

- Conversations in Medical Innovation. School of Medicine, University of Southampton, Southampton, UK.
 - 1st workshop: 25th June 2009.
 - 2nd workshop: 30th June 2009.
- Harnessing the Web for Researchers. School of Medicine, University of Southampton, Southampton, UK. 29th and 30th January 2009.
- Getting Started in Teaching. Post-doctoral Educational Courses, School of Medicine, University of Southampton, Southampton, UK. 20th October 2008.
- E-thesis training. Postgraduate Educational Courses, School of Medicine, University of Southampton, Southampton, UK.
 - Session 1: 22nd May 2008
 - Session 2: 9th July 2008
- Statistic Modules (SPSS; Statistical Package for the Social Sciences), Postgraduate Educational Courses, School of Medicine, University of Southampton, Southampton, UK.
 - Block 1: 11th -12th and 23rd February 2008.
 - Block 2: 10th -12th March 2008.
- Communicating your research to wider audiences. School of Medicine, University of Southampton, Southampton, UK. 28th January 2008.
- Wellcome Trust advanced course microarray: Gene Expression and Regulation, Wellcome Trust Genome Campus, Hinxton, Cambridge, UK. 15th -24th April 2007.
- Presentation Skills: voice and pronunciation for non-English Speakers. Learning and Teaching Enhancement Unit, University of Southampton, Southampton, UK. 11th January 2007.
- Threshold induction to key principles in effective teaching. Learning and Teaching Enhancement Unit, University of Southampton, Southampton, UK.
 - Part 1; 25th October 2006.
 - Part 2; 16th November 2006.
- Internship Training for Medical Graduates, Egypt from 1st of March 2001 to the 28th of February 2002.

Webpages

<https://liu.se/en/employee/ahmel66>

<https://orcid.org/my-orcid?orcid=0000-0001-5394-9082>

<https://scholar.google.ac/citations?user=kKYiMYAAAAAJ&hl=en>

http://www.researchgate.net/profile/Ahmed_El-Serafi/

<http://www.linkedin.com/pub/ahmed-elserafi/2b/751/77b>

Newspaper articles

- He heals skin and shares his knowledge. Linköping University News, 2024.
<https://liu.se/en/news-item/he-heals-skin-and-shares-his-knowledge>

- Stem cell research can help those with hard-to-heal wounds. LiU Magasine, 2023 (1): 15-16. <https://liu.se/en/news-item/stem-cell-research-can-help-people-with-hard-to-heal-wounds#:~:text=For%20the%20first%20time%2C%20stem,researchers%20and%20health%20care%20staff.>
- Chronic wounds heal faster with the body's own cells. Linköping University News, 2023. <https://liu.se/en/news-item/kroniska-sar-laker-snabbare-med-kroppens-egna-celler>
- United Arab Emirates Heals the Patients' Pain with Stem Cells. Al-Khaleej, 2014. <http://www.alkhaleej.ae/alkhaleej/page/373e4d05-386a-46dc-8824-0314b397e20f>
- Himdan bin Rashed honours 20 winners of the Medical Awards. Emirates Today, 2014. <http://www.emaratalyoum.com/life/society/2014-12-17-1.737983>
- Himdan Medical Award is preparing for Dubai Biomedical Conference in mid-December. Alitihad, 2014. <http://www.alitihad.ae/details.php?id=83890&y=2014>
- Himdan Medical Award will Discuss Targeted Therapy in December. Emirates Today, 2014. <http://www.emaratalyoum.com/local-section/other/2014-09-25-1.712637>
- Himdan Medical Award Discusses Final Arrangements for Dubai Medical Conference in mid-December. Emirates News Agency, 2014. <http://www.wam.ae/ar/news/emirates/1395270061412.html>
- Egyptian Physician Presents Models of Human Organs Designed by Stem Cells; by Hussam Zayed. Al-Ahram (44710), 2009.
- A Young Man from Our City; by Mohamed Abul-Shohood. New Journal of Port-Said (126), 2009.

Public Meetings

- Introduction to Stem Cells, High School Student visit from Bäckängsgymnasiet, Borås. Linköping, Sweden, 15th of November 2024.
- Cell Therapy for Skin Wounds, a live presentation at 'Burrow a Researcher 2024' event. Norrköping, Sweden, 25th of September 2024. <https://forskarfredag.se/program/ahmed-elserafy/>; <https://www.youtube.com/live/CgfCeeKSq3g>
- TV live show 'The Canal Today', Canal Satellite TV Channel, 31st of December 2018. URL for the interview is <https://www.youtube.com/watch?v=1rEqMW0IQzw&t=1107s>.
- TV live show 'Free Zone', Canal Satellite TV Channel, 26th of December 2011. URL for the interview is <https://www.youtube.com/watch?v=n8ITo6oqcYg>.
- TV live show 'Beginning of the Day', Canal Satellite Television, 5th of June 2011.
- Joint meeting of Rotary and Inner Wheel Port-Said, Port-Said Hotel, 21st July 2010
- TV live show 'This Morning', Channel 4 of the Egyptian television, 3rd of March 2010.

Research Interest

Regenerative medicine, stem cells differentiation, epigenetics, epigenetic modifiers, skin regeneration, wound healing, bone and cartilage regeneration, molecular biology and clinical chemistry.