

Abeer Aleskndrany

PhD in Biophysics

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Profile Summary

Experienced biophysicist with a strong academic background and interdisciplinary expertise in the interaction of thyroid hormones with model membranes using FTIR and DSC techniques. Skilled educator with over 8 years of university-level teaching experience. Trilingual and well-published, with a solid presence in international conferences and journals.

Education

Ph.D. in Biophysics

Ege University, Turkey | Sep 2014 – Jan 2022

Thesis: The investigation of the interactions of Thyroid Hormones and its Derivatives with Model Membranes using Spectroscopic and Calorimetric Techniques.

M.S. in Solid State Physics

Applied Science Faculty, University of Taiz, Yemen | Oct 2006 – Jun 2009

Thesis: Structural and Optical Studies on Some Crystalline Semiconductors.

B.S. in Physics

Applied Science Faculty, University of Taiz, Yemen | Sep 2000 – Jul 2004

Research Experience & Projects

Ege University Research Project (2017/FEN/052)

Title: Spectroscopic and Calorimetric Investigation of the Interaction of Thyroid Hormones and Their Derivatives with Model Membranes.

Publications

- Aleskandrany A., Şahin I. (2020). **The effects of Levothyroxine on the structure and dynamics of DPPC liposome: FTIR and DSC studies.** Biochimica et Biophysica Acta (BBA) - Biomembranes, 1862(6).
- Ammar A.H., Abo-Ghazala M.S., Farag A.A.M., Eleskandrany A. (2013). **Influence of composition on structural, electrical and optical characterizations of Bi_{48-x} Sb_x Se₅₂ ternary chalcogenide system.** Indian Journal of Physics, 87, 1169-1175.
- Abo-Ghazala M.S., Ammar A.H., Eleskandrany A. (2010). **Electrical and Optical Properties of Ternary System of Bi-Sb-Se.** Egypt. J. Solids, Vol. (33), No. (1).

Teaching Experience

Lecturer

- Taiz University, Yemen | Apr 2011 – Jul 2013
- 22May University – Medical Sciences, Yemen | Sep 2010 – Jun 2011
- Al-Hikma University – Pharmacy Dept., Yemen | Sep 2009 – Jun 2010
- Assistant Lecturer, Taiz University | Sep 2004 – Jun 2011

Courses Taught: Principle of Mechanics, Classical Mechanics, Medical Physics, Electrical Circuits, and Physics Labs.

Technical Skills

- FTIR Spectroscopy
- Raman Spectroscopy
- CD Spectroscopy
- Differential Scanning Calorimetry (DSC)
- Microsoft Office Suite

Languages

- Arabic
- English
- Turkish

Conferences & Presentations

- EBAT 2023, Antalya – Oral Presentation on L-T3 inclusion in SM Model Membranes.
- EBAT 2021, Antalya – Oral Presentation on Effects of L-T4 and L-T3 on DPPC Membranes.
- EBAT 2019, Antalya – Oral Presentation on Interaction of L-T3 with DPPC Membranes.
- EBAT 2018, Antalya – Oral Presentation on L-T4 concentration-dependent effects on DPPC Membranes.

References

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