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- 41 "Ameliorative effects of *Dictyota dichotoma* on hepatotoxicity induced by gibberellic acid in albino rats  
**Shaimaa Ali1\*, Walaa A. Moselhy1, Hanaa M. Mohamed2, Taghreed M.Nabil3, Fatma I. Abo El-Ela, K. H. Abdou**  
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**Marina A. Bekhet, Adel A. Ali, Rasha M. Kharshoum, Fatma I. Abo El-Ela, Heba F. Salem**

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- 44 *Glycosomal thermosensitive in situ gel of duloxetine HCl as a novel nanoplatform for rectal delivery: in vitro optimization and in vivo appraisal.*  
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- 46 Optimization and Appraisal of Chitosan-grafted PLGA Nanoparticles for Boosting Pharmacokinetics and Pharmacodynamics effect of Duloxetine HCl using Box-Benken Design

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- 47 [In Vitro and In Vivo Evaluation of the Effectiveness and Safety of Amygdalin as a Cancer Therapy](#)

[Fatma I. Abo El-Ela](#) 1 , Amr Gamal 2,\* , Hossny Awad Elbanna 3 , Ahmed H. ElBanna 4 , Heba F. Salem 2 and Alaa S. Tulbah 5

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- 49 [Therapeutic Potential of Zeolites/Vitamin B12 Nanocomposite on Complete Freund's Adjuvant-Induced Arthritis as a Bone Disorder: In Vivo Study and Bio-Molecular Investigations](#)

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**Bone Damage: Preparation, Characterization, and Anti-Arthritic, Anti-Inflammatory, and Antioxidant Activities in Chemically Induced Arthritic Rats**

Amany Belal; Rehab Mahmoud; Eman E. Mohamed; Ahmed Farghali; **Fatma I. Abo El-Ela**; Amr, Gamal; Fatma Mohamed Halfaya; Esraa Khaled; Abdelbasset A. Farahat; Ahmed H. E. Hassan; Mohammed M. Ghoneim; Mohamed Taha; Mohamed Y. Zaky.

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- 52 **Exploring the Antimicrobial Activity of Sodium Titanate Nanotube Biomaterials in Combating Bone Infections: An In Vitro and In Vivo Study**  
Atiah H. Almalki 1, Walid Hamdy Hassan 2, Amany Belal 1,\* , Ahmed Farghali 3, Romissaa M. Saleh, Abeer Enaiet Allah 4, Abdalla Abdelwahab 3,5, Sangmin Lee 6,7,\* , Ahmed H.E. Hassan, Mohammed M. Ghoneim, Omeima Abdullah 12, Rehab Mahmoud 4 and **Fatma I. Abo El-Ela**  
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Ahmed. A. G. El-Shahawy, Esam M. Dief, S. I. El-Dek, A. A. Farghali & **Fatma I. Abo El-Ela**

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- 56 **Intranasal Nanotransfersomal Gel for Quercetin Brain Targeting: I. Optimization, Characterization, Brain Localization, and Cytotoxic Studies**

Mohammed H. Elkomy; Randa Mohammed Zaki; Omar A. Alsaidan; Mohammed Elmowafy; Ameeduzzafar Zafar; Khaled Shalaby; Mohamed A. Abdalgawad; **Fatma I. Abo El-Ela**; Mostafa E. Rateb; Ibrahim A. Naguib; Hussein M. Eid

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Ahmed Kh. Fayeql1 · **Fatma I. Abo El-Ela1** · Nema S. Shaban1 · Abeer M. Radi1 · Marwa A. Ibrahim2 · A. A. M. Elgendy1

Toxicology and Environmental Health Sciences  
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- 59 **Design, optimization, and in vivo evaluation of invasome-mediated candesartan for the control of diabetes-associated atherosclerosis**

Amr Gamal Fouad, Mohammed R. A. Ali, Demiana M. Naguib, Ha Farouk4 · Mohamed I. Zanaty ·

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- 61 **Multifunctional ternary ZnMgFe LDH as an efficient adsorbent for ceftriaxone sodium and antimicrobial agent: sustainability of adsorption waste as a catalyst for methanol electro-oxidation**  
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ca Ahmed A. Farghali,a **Fatma I. Abo El-Ela**  d and Abeer Enaiet Allah  \*b

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- 62 **Greens Appraisal of Validated Stability Indicating RP-HPLC Method and Forced Degradation Study for Quantification of Ebastine in Wastewater and Dosage Form**

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- 63 **Effectiveness of natural biomaterials in the protection and healing of experimentally induced gastric mucosa Ulcer in rats**

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