

Theme 2-2: Drug Delivery, Microfluidics and Lab on a Chip - 2021

Title	Authors	Scopus Source Title	Volume	Issue	Pages	Source type	Publication type	Open Access
Ultrasound-Responsive Nanocarriers in Cancer Treatment: A Review	Awad, N.S.; Paul, V.; Alsaawafah, N.M.; Ter Haar, G.; Alben, T.M.; Pitt, W.G.; Hussein, G.A.	ACS Pharmacology and Translational Science	4	2	589-612	Journal	Review	Green
Ultrasound-triggered heparin liposomes for breast cancer therapy	Elamir, A.; Ajith, S.; Sawafah, N.A.; Alsaawafah, W.; Mukhopadhyay, D.; Paul, V.; Al-Sayah, M.H.; Awad, N.; Hussein, G.A.	Scientific Reports	11	1	-	Journal	Article	Gold Green
Transferrin-modified liposomes triggered with ultrasound to treat liver cells	Alsaawafah, N.M.; Awad, N.S.; Paul, V.; Kawaik, P.S.; Al-Sayah, M.H.; Hussein, G.A.	Scientific Reports	11	1	-	Journal	Article	Gold Green
Targeting Breast Cancer Using Hyaluronic Acid-Conjugated Liposomes Triggered with Ultrasound	Ben Daya, S.M.; Paul, V.; Awad, N.S.; Al Sawafah, N.M.; Al Sayah, M.H.; Hussein, G.A.	Journal of biomedical nanotechnology	17	1	90-99	Journal	Article	Green
pH and ultrasound dual-responsive drug delivery system based on PEG-Folate-functionalized iron-based metal-organic framework for targeted doxorubicin delivery	Ahmed, A.; Karami, A.; Sabouni, R.; Hussein, G.A.; Paul, V.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	626	-	-	Journal	Article	
Dual-Targeting and Stimuli-Triggered Liposomal Drug Delivery in Cancer Treatment	Alsaawafah, N.; Pitt, W.G.; Hussein, G.A.	ACS Pharmacology and Translational Science	4	3	1028-1049	Journal	Review	Green
Recent advances in metal-organic frameworks as anticancer drug delivery systems: A review	Karami, A.; Mohamed, D.; Ahmed, A.; Hussein, G.A.; Sabouni, R.	Anti-Cancer Agents in Medicinal Chemistry	21	18	2487-2504	Journal	Review	
Ultrasound-triggered liposomes encapsulating quantum dots as safe fluorescent markers for colorectal cancer	Awad, N.S.; Haider, M.; Paul, V.; Alsaawafah, N.M.; Jagal, J.; Paricha, R.; Hussein, G.A.	Pharmaceutics	13	12	-	Journal	Article	Gold Green
Identification of Novel MicroRNAs as Promising Therapeutics for SARS-CoV-2 by Regulating the EGR1-ADAM17 Axis: An in Silico Analysis	Mukhopadhyay, D.; Alsaawafah, N.; Hussein, G.A.	ACS Pharmacology and Translational Science	4	1	396-399	Journal	Review	Green
Brain-Eating Amoebae in the United Arab Emirates?	Siddiqui, R.; Khamis, M.; Ibrahim, T.; Khan, N.A.	ACS Pharmacology and Translational Science	4	2	1014-1015	Journal	Review	Green
Modeling of anti-cancer drug release kinetics from liposomes and micelles: A review	Al Sawafah, N.; Paul, V.; Awad, N.; Hussein, G.A.	IEEE Transactions on Nanobioscience	20	4	565-576	Journal	Review	Green
Potential Application of Vaporized Drugs via Nasal Inhalers to Prevent Mortality and Central Nervous System Damage Caused by Primary Amoebic Meningoencephalitis Due to Naegleria fowleri	Siddiqui, R.; Abouleish, M.Y.; Khamis, M.; Ibrahim, T.; Khan, N.A.	ACS Pharmacology and Translational Science	4	3	1249-1252	Journal	Review	Green
Ultrasound-Mediated Cancer Therapeutics Delivery using Micelles and Liposomes: A Review	Mukhopadhyay, D.; Sano, C.; Alsaawafah, N.; El-Awady, R.; Hussein, G.A.; Paul, V.	Recent Patents on Anti-Cancer Drug Discovery	16	4	498-520	Journal	Review	
Ultrasound-Triggered Immunotherapy for Cancer Treatment: An Update	Mukhopadhyay, D.; Ahmed, A.; Sano, C.; Awad, N.; Al Sawafah, N.; Hussein, G.A.	Current Protein and Peptide Science	22	6	493-504	Journal	Article	
Identification of Novel MicroRNAs Targeting SARS-CoV-2 through the Regulation of TRPM5/PI3K/AKT/P-TEN Alignment in Lung Cancer: An in Silico Analysis	Mukhopadhyay, D.; Alsaawafah, N.; Hussein, G.A.	ACS Pharmacology and Translational Science	4	3	1075-1078	Journal	Article	Green
Current medicines hold promise in the treatment of orphan infections due to brain-eating amoebae	Siddiqui, R.; Yehia Abouleish, M.; Khamis, M.; Ibrahim, T.; Khan, N.A.	Expert Opinion on Orphan Drugs	9	11-12	227-235	Journal	Editorial	Bronze
Targeted Liposomes Production in a Microfluidic Chip	Agam, M.; Paul, V.; Abdelgawad, M.; Hussein, G.	IEEE International Conference on Nano/Molecular Medicine and Engineering, NANOMED	2021-	-	53-56	Conference Proceeding	Conference Paper	
Dual Targeting of Function-Structure for Effective Killing of Pathogenic Free-Living Amoebae	Siddiqui, R.; Abouleish, M.Y.; Khamis, M.; Ibrahim, T.; Khan, N.A.	ACS Medicinal Chemistry Letters	12	5	672-676	Journal	Review	Green
Modeling the Effects of Chemotherapy and Immunotherapy on Tumor Growth	El Haout, S.; Fatani, M.; Farha, N.A.; Alsaawafah, N.; Mortula, M.; Hussein, G.A.	Journal of biomedical nanotechnology	17	12	2505-2518	Journal	Article	
Carbohydrate-functionalized liposomes in cancer therapy	Al-Sawafah, N.M.; Abusamra, R.H.; Hussein, G.A.	Current Cancer Therapy Reviews	17	1	4-20	Journal	Review	
Modeling the Effects of Chemotherapy and Immunotherapy on Tumor Growth	El Haout, S.; Fatani, M.; Farha, N.A.; Alsaawafah, N.; Mortula, M.; Hussein, G.A.	Journal of biomedical nanotechnology	17	12	2505-2518	Journal	Article	
Microchannel geometry vs flow parameters for controlling nanoprecipitation of polymeric nanoparticles	Abdelkarim, M.; Abd Elah, N.H.; Elababhy, M.; Abdelgawad, M.; Abouelmagd, S.A.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	611	-	-	Journal	Article	
A microfluidic platform for dissociating clinical scale tissue samples into single cells	Al-Mufly, S.; Eltayeb, M.; Ali, H.; Ahmed, O.; Altayeb, A.; Wahby, A.; Abdelgawad, M.; Moura, N.	Biomedical Microdevices	23	1	-	Journal	Article	
Targeted Liposomes Production in a Microfluidic Chip	Agam, M.; Paul, V.; Abdelgawad, M.; Hussein, G.	IEEE International Conference on Nano/Molecular Medicine and Engineering, NANOMED	2021-	-	53-56	Conference Proceeding	Conference Paper	
MINIMUM ACTUABLE DIODET VOLUME IN SINGLE-PLATE DIGITAL MICROFLUIDICS DEVICES WITH ALL-GROUNDDED ELECTRODES	Al-Lababidi, M.; Abdelgawad, M.	MicroTAS 2021 - 25th International Conference on Miniaturized Systems for Chemistry and Life Sciences	-	-	973-974	Conference Proceeding	Conference Paper	