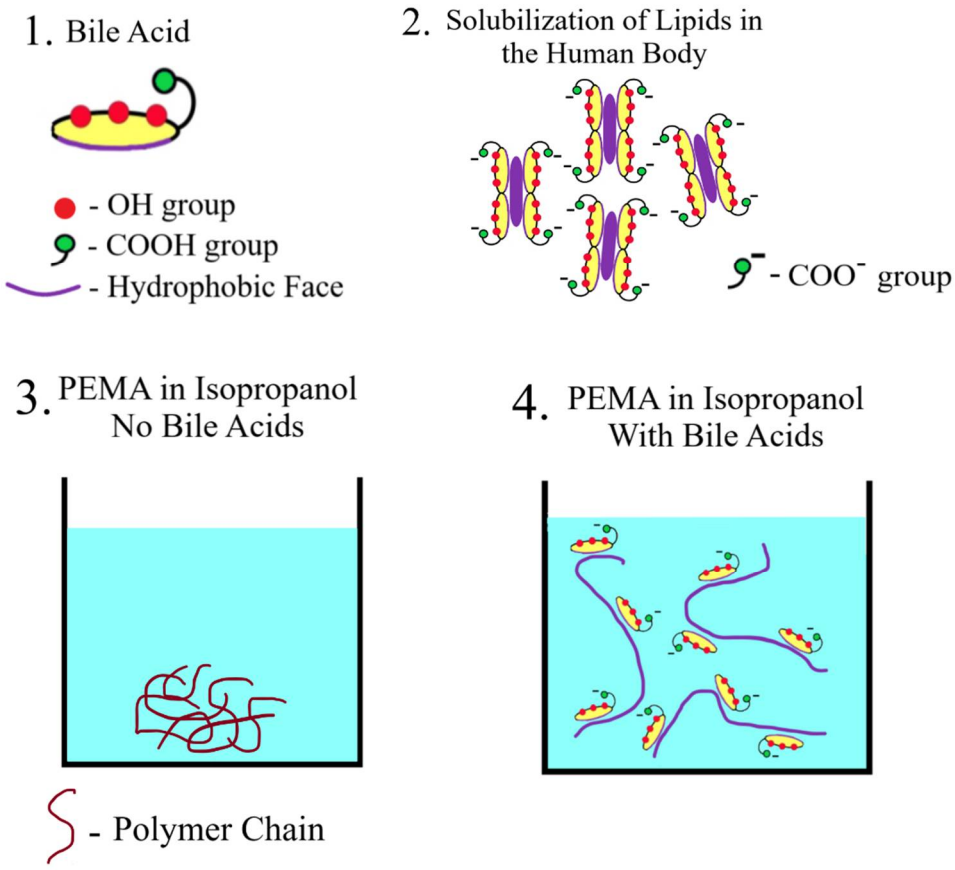
micro

Supplementary information

A biomimetic strategy for the fabrication of micro- and nanodiamond composite films.

Kayla Baker and Igor Zhitomirsky*

Department of Materials Science and Engineering, McMaster University, Hamilton, ON L8S4L7, Canada; bakerk9@mcmaster.ca (K.B.); zhitom@mcmaster.ca (I.Z.)
* Correspondence: zhitom@mcmaster.ca (I.Z.)



Schematic 1: Illustration of the general chemical structure of a bile acid (1), bile acids solubilization of lipids within the human body (2), insoluble PEMA in isopropanol (3), and PEMA solubilized in isopropanol by the addition of bile acids (4).

Citation: Baker, K.; Zhitomirsky, I. A biomimetic strategy for the fabrication of micro- and nanodiamond composite films. *Micro* **2022**, *2*, Firstpage-Lastpage. https://doi.org/10.3390/xxxxx

Academic Editor: Firstname Lastname

Publisher's Note: MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Copyright: © 2022 by the authors. Submitted for possible open access publication under the terms and conditions of the Creative Commons Attribution (CC BY) license (https://creativecommons.org/licenses/by/4.0/).

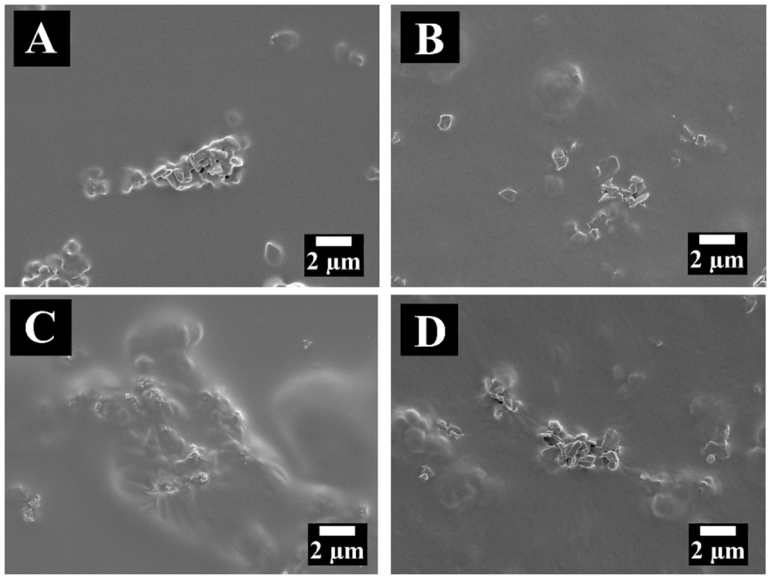


Figure S1. SEM micrographs of films prepared from 10 gL^{-1} PEMA solutions containing (A,B) 1 gL^{-1} MD and (C,D) 1 gL^{-1} ND (A) with (A,C) 3 gL^{-1} UDCA (B.D) 3 gL^{-1} HDCA.

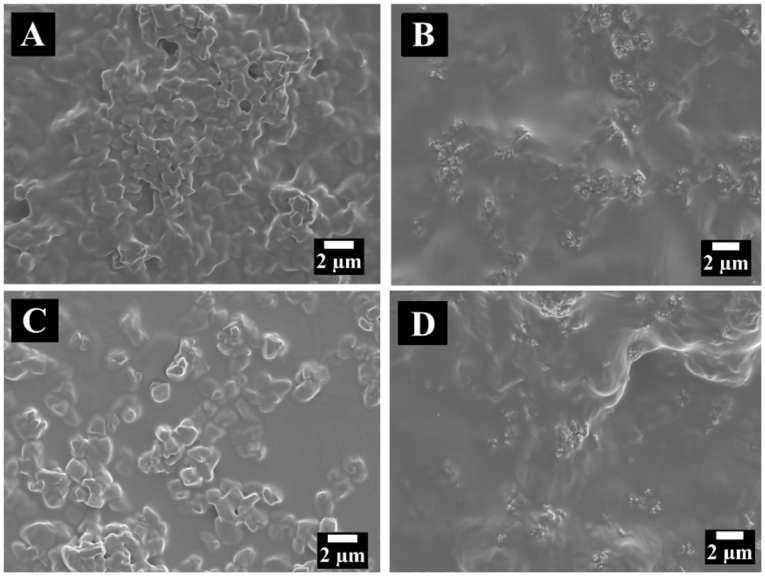


Figure S2. SEM micrographs of films prepared from 10 gL^{-1} PEMA solutions containing (A,B) 3 gL^{-1} MD and (C,D) 3 gL^{-1} ND (A) with (A,C) 3 gL^{-1} UDCA (B.D) 3 gL^{-1} HDCA.