

# Supplementary Materials: Hepatocyte Aggregate Formation on Chitin-Based Anisotropic Microstructures of Butterfly Wings

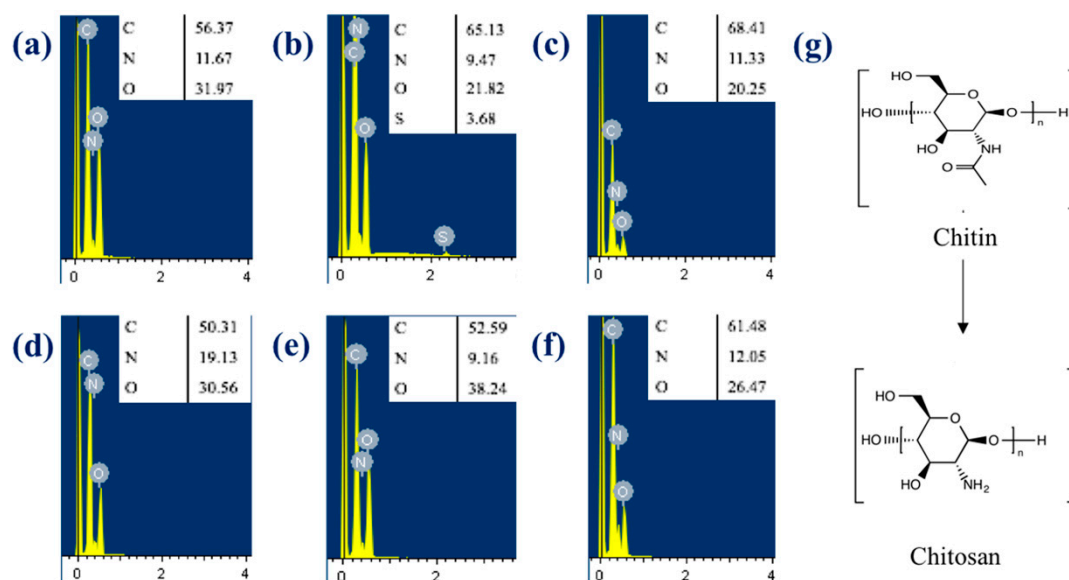
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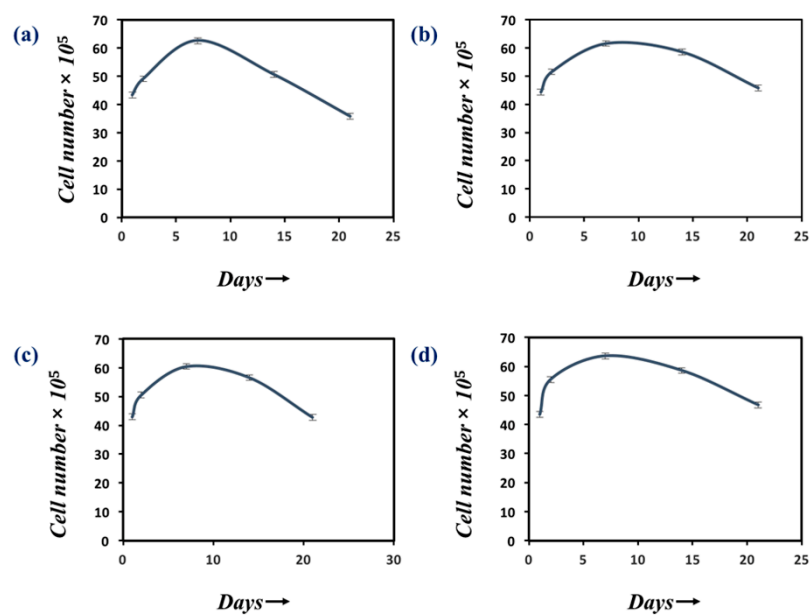
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**Figure S1.** Energy-dispersive X-ray spectroscopy analysis of butterfly wings. *M. menelaus*, *P. u. telegonus* and *O. c. lydius* wings (a–c) after hydrophilic treatment and (d–f) after acid/base treatment, from left to right, respectively. (g) Schematic depicting the chemical composition changes on the butterfly wing surface throughout the treatment process.



**Figure S2.** Methylthiazolyldiphenyl-tetrazolium bromide assay on HepG2 cells cultured on butterfly wings. (a–d) Number of cells cultured on different substrates: (a) *M. menelaus*, (b) *P. u. telegonus* (fibrous region), (c) *P. u. telegonus* (blue region), and (d) *O. c. lydius* wings.