

Figure S1. Dried (A) apple pulp, (B) black carrot pulp, (C) pomegranate pulp, (D) red beet pulp

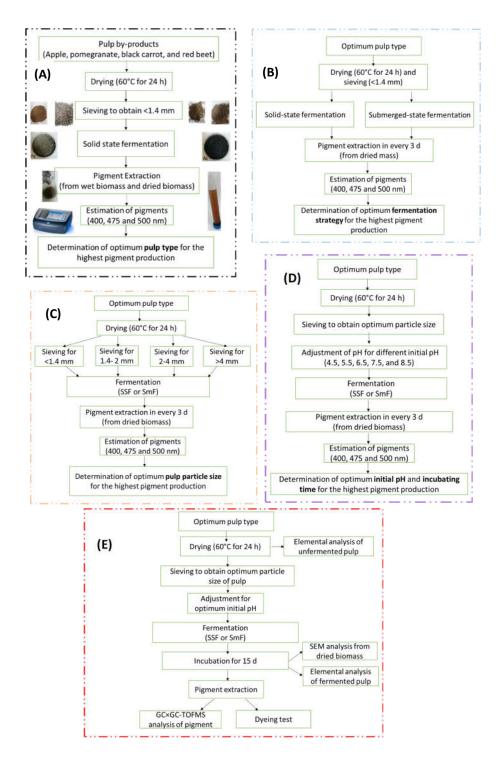


Figure S2. Flow chart of experiments (**A**) Selection of fungal species and pulp type, (**B**) Effect of fermentation strategy and incubation period, (**C**) Effect of substrate particle size, (**D**) Effect of initial substrate pH, (**E**) Pigment production at optimal conditions

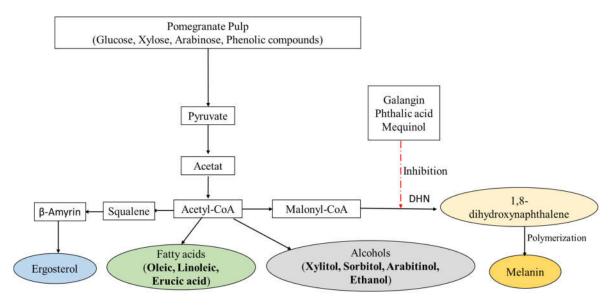


Figure S3. Potential metabolic pathway of melanin production by *Aspergillus carbonarius* from pomegranate pulp (adapted from Vadlapudi et al., 2017)

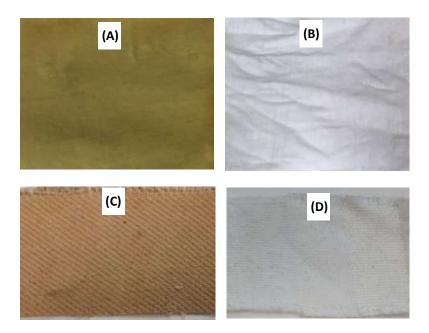


Figure S4. Images of **(A)** dyed and **(B)** undyed fabric pieces without mordanting, **(C)** dyed fabric pieces with mordanting (**D**) undyed fabric pieces with mordanting (Dyeing of cotton fabric made with a fungal pigmented extract obtained by cultivation of *Aspergillus carbonarius* during 15 days on pomegranate pulp)