

GOLD

100% collagen 0% plastic

GOLD - 100% collagen 0% plastic

Hosted by: WINT Design Lab

Project Information (EN)

RNA sequencing and biomanufacturing

GOLD is a design research project inspired by the properties of Goaldbeater skin, the outermost tissue layer of the cow gut. This extremely thin, elastic, tear-resistant membrane was historically used as a separating layer when beating leaf gold. We investigated its outstanding properties, determined the tissue structurally and biochemically, and sequenced its RNA. Our goal is to synthetically replicate its material properties to develop a biopolymer to produce high-performance textiles. The substrate is cultivated in bioreactors and is therefore 100% vegan and biodegradable.

Image List

Filename	Caption	Credit
220813-wint01_1663758090.jpg	GOLD textiles - 100% collagen 0% plastic	Denny Sachtleben, WINT Design Lab
220813-wint1010_1663758164.jpg	GOLD running jacket	Denny Sachtleben, WINT Design Lab
220813-wint0989-jpg_1663758180.jpg	GOLD running jacket detail	Denny Sachtleben, WINT Design Lab
220813-wint0648_1663758195.jpg	Water-repellent and tear-resistant material	

The images above are included in the ZIP under /images.