

# Tissue-like wearable sensor for continuous health monitoring

From soft tissue to soft sensors

The case was provided by the Individual Member of ISBE Sheng Xu

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## 1. Biological Prototype

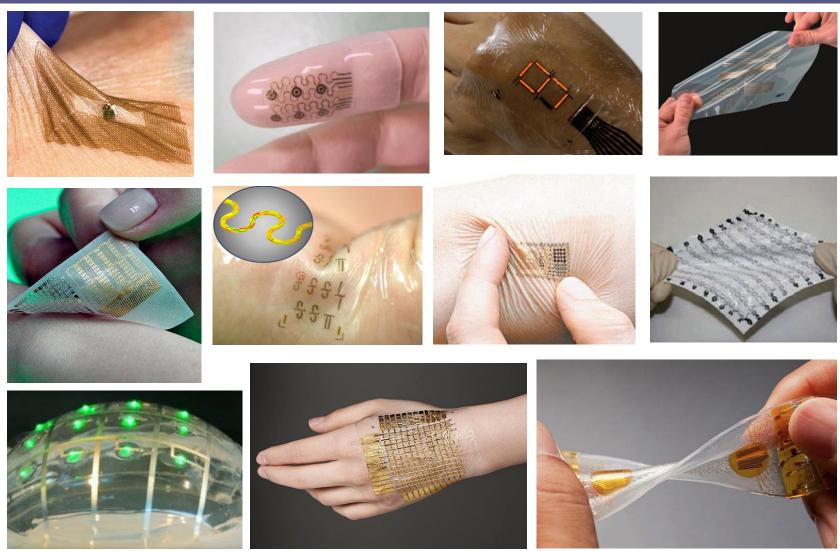




Biological tissues, such as the human skin, are intrinsically soft (flexible, stretchable, and twistable).

## 2. Bionic Study

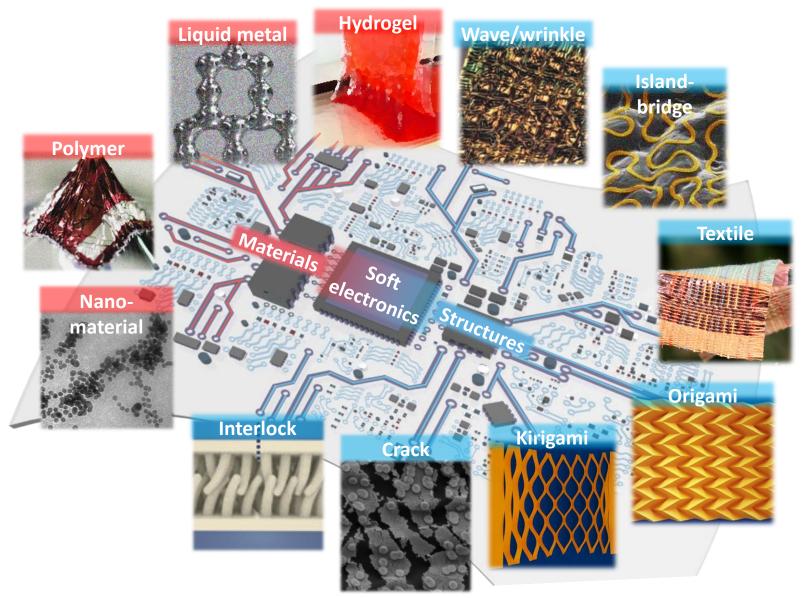




The sensors need to be soft to allow continuous integration and accurate measurements on the tissues.

### 3. Design and Processing

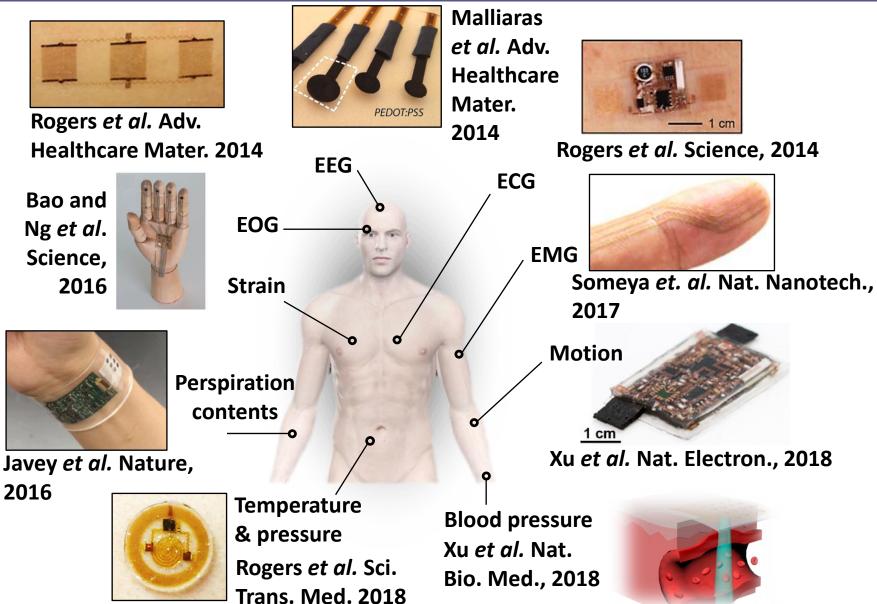




Wang, C.F., Wang, C.H., Huang, Z.L. et al., Adv. Mater. 30, 1801368 2018.

### 4. Achievements and Application





Lin, M.Y. et al., Nature Reviews Materials, DOI: 10.1038/s41578-022-00427-y 2022.



The current wearable sensing technique has been successfully applied in health monitoring and human machine interface.