Supplementary information

One step preparation of biocompatible reduced graphene oxidesilver nanohybrid for topical antimicrobial applications

Shaswat Barua^a, Suman Thakur^a, Lipika Aidew^b, Alak K. Buragohain^b, Pronobesh Chattopadhyay^c and Niranjan Karak^a*

^a Advanced Polymer and Nanomaterial Laboratory, Department of Chemical Sciences, Tezpur University, Napaam-784028, Assam, India

^b Department of Molecular Biology and Biotechnology, Tezpur University, Napaam-784028, Assam, India

^c Defence Research Laboratory, Tezpur, Assam, India

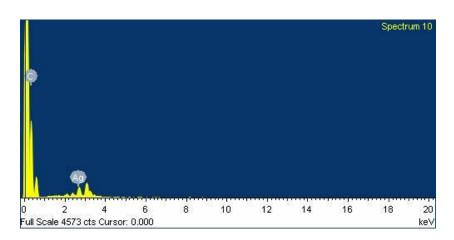


Fig. S1: EDX data of Ag-RGO

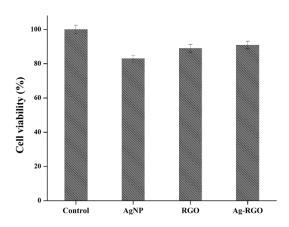


Fig. S2: Cell survival test, via MTT assay

Supplementary Table S1: EDX data for loading of silver in the Ag-RGO

| Element | Weight% | Atomic% |
|---------|---------|---------|
| С | 84.47 | 97.99 |
| Ag | 15.53 | 2.01 |

Supplementary Table S2. Sensitization Score, Rate, Grade, and Classification

| Group | Sensitization rate (%) | Sensitization grade | Sensitization classification ^a |
|---------|------------------------|---------------------|---|
| Control | 0 | Ι | Weak |
| Treated | 0 | I | Weak |