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**Supporting Information**

# Bioactive 3D porous cobalt-doped alginate/waterborne polyurethane scaffolds with coral reef-like rough surface for nerve tissue engineering application

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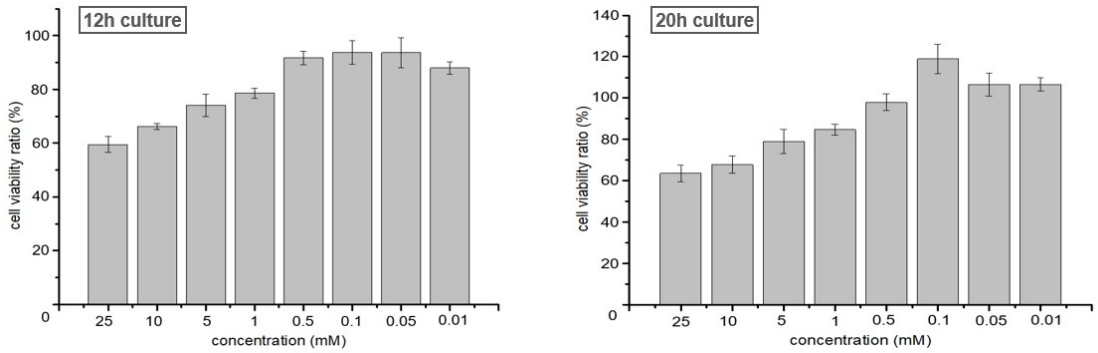


**Figure S1. Pre-experiment on PC12 cytotoxicity of cobalt ions concentration. It should be noticed that this pre-experiment only evaluated the cytotoxicity of cobalt chloride hexahydrate solution, the final cobalt concentration released from the cobalt doped scaffolds would be much lower than the cobalt chloride hexahydrate solution. Therefore, the concentration range of 1-5 mM was chosen as the Co doping concentration range, in which the cell viability was less affected.**

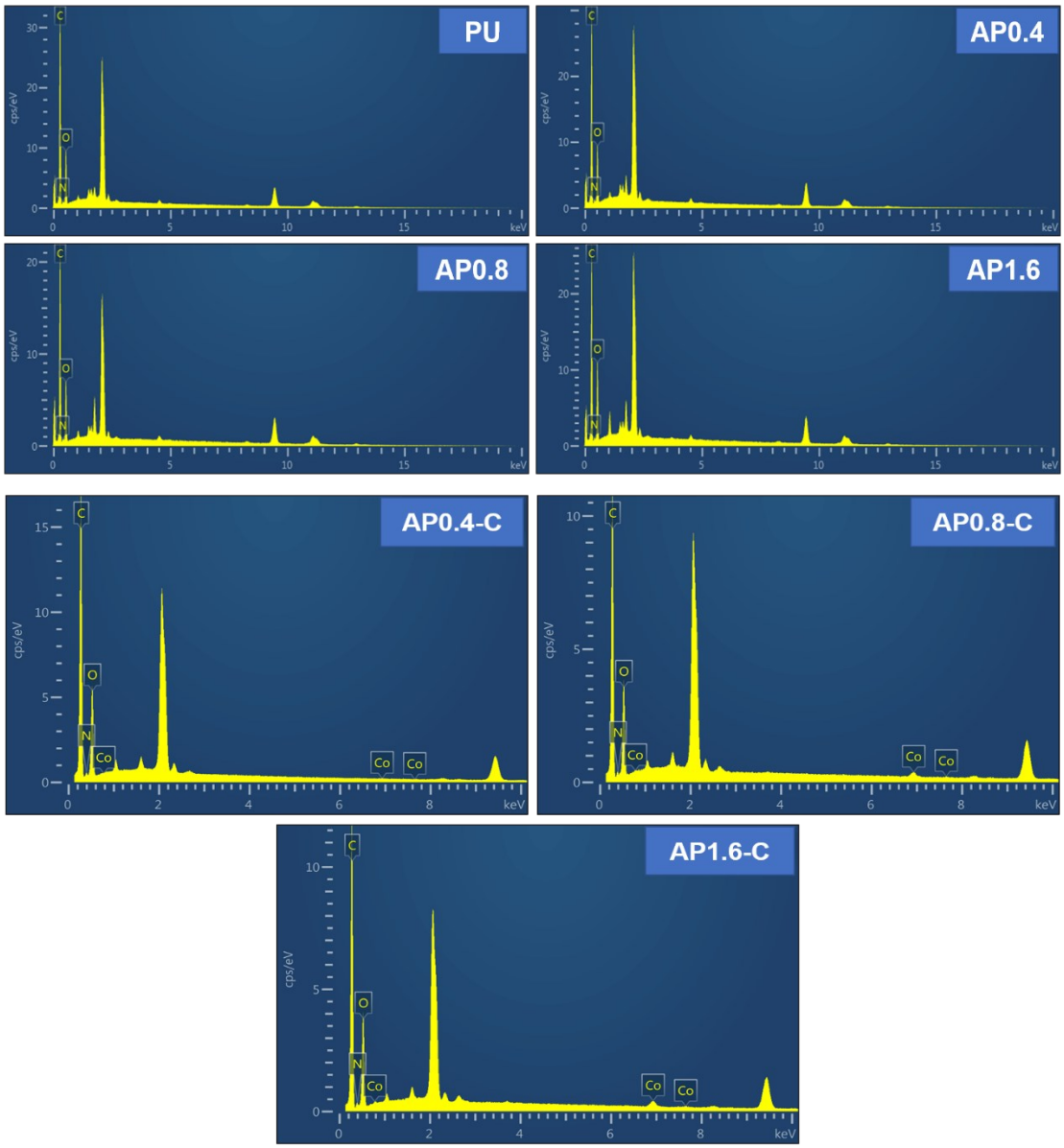


**Figure S2. EDS analysis of scaffolds for C, O, N, Co elements.**

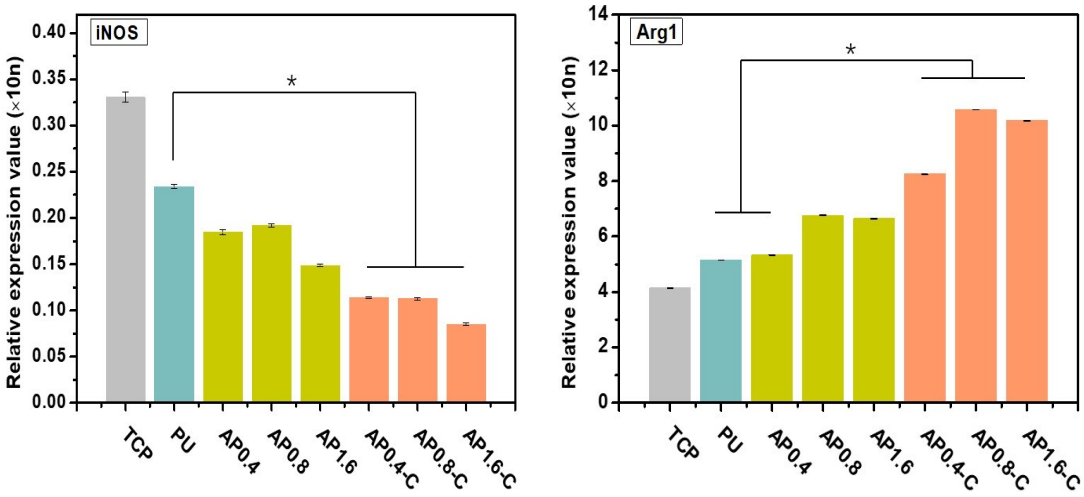


**Figure S3. Relative content of iNOS and Arg1 proteins of BV2 for different scaffolds obtained by Image J.**