Synthesis of carbon dots with high quantum yield and their application as bioprobes

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Carbon dots, which can be obtained from cheap and biocompatible materials, are emerging materials for various areas because of their superior optical properties and low toxicity. Especially, many researchers have focused on their application for biological purposes such as sensing, imaging, and therapy. In this research, we synthesized carbon dots with high quantum yield with citric acid and ethylendiamine. In addition, the synthesized carbon dots were conjugated with antibody for the detection of biomolecules.