

Supporting Information

Multifunctional carbon dots as efficient fluorescent nanotags for tracking cells through successive generations

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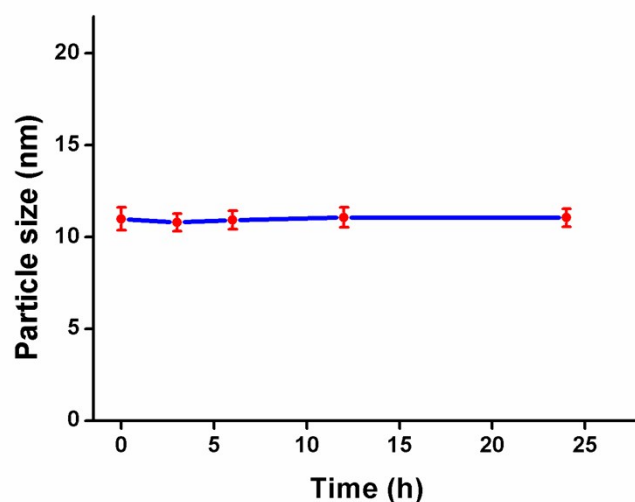


Fig. S1 The variation in particle sizes of CDs in phosphate-buffered saline containing 50% (v/v) FBS for 24 h at 25°C (n=3).

Sample	a_1	$\tau_1(\text{ns})$	a_2	$\tau_2(\text{ns})$	a_3	$\tau_3(\text{ns})$	$\tau_{\text{av}}(\text{ns})$	χ^2
CDs	0.4728	4.487	0.1221	0.780	0.4051	15.207	8.377	1.171

Table S1. Tabular representation of fluorescence lifetime calculation of CDs.

Average lifetime (τ_{av}) was calculated by using the following equation:

$$\tau_{\text{av}} = a_1\tau_1 + a_2\tau_2 + a_3\tau_3$$

where τ_1 , τ_2 , τ_3 were the first, second and third component of the decay time of CDs and a_1 , a_2 , a_3 were the corresponding relative weightings (emission %) of these components, respectively.