

**Albumin thiol group content and reactivity are under control of joint action of fatty acids
and glucose binding**

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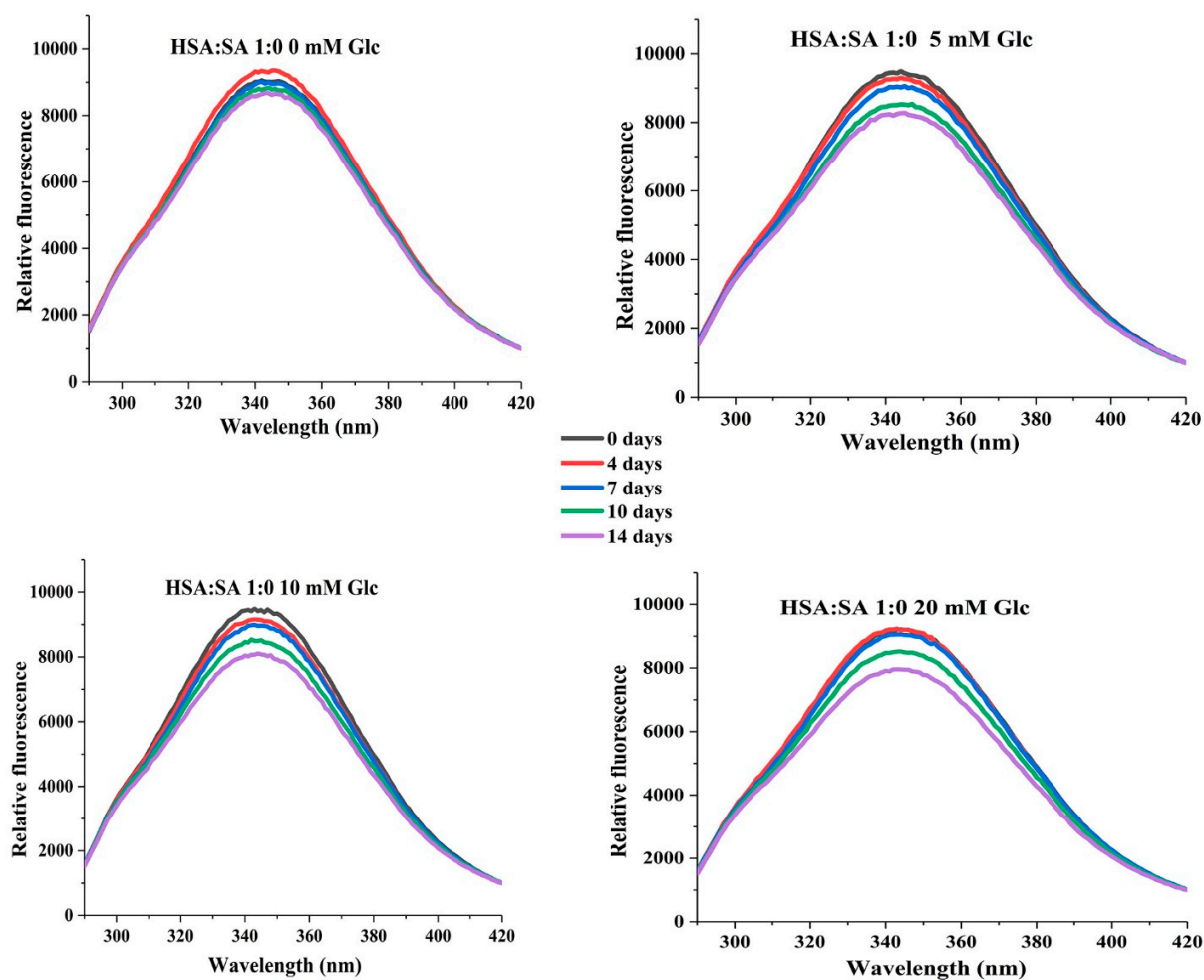


Figure S1. The effects of glucose concentrations (5, 10 and 20 mM) on the normalized Trp214 fluorescence intensity during 14 days of incubation of HSA in the absence of stearic acid (SA), HSA:SA 1:0. Before collecting spectra, HSA samples were diluted to the final concentration of 2 μ M. Spectra were recorded at 37°C after excitation at 280 nm.

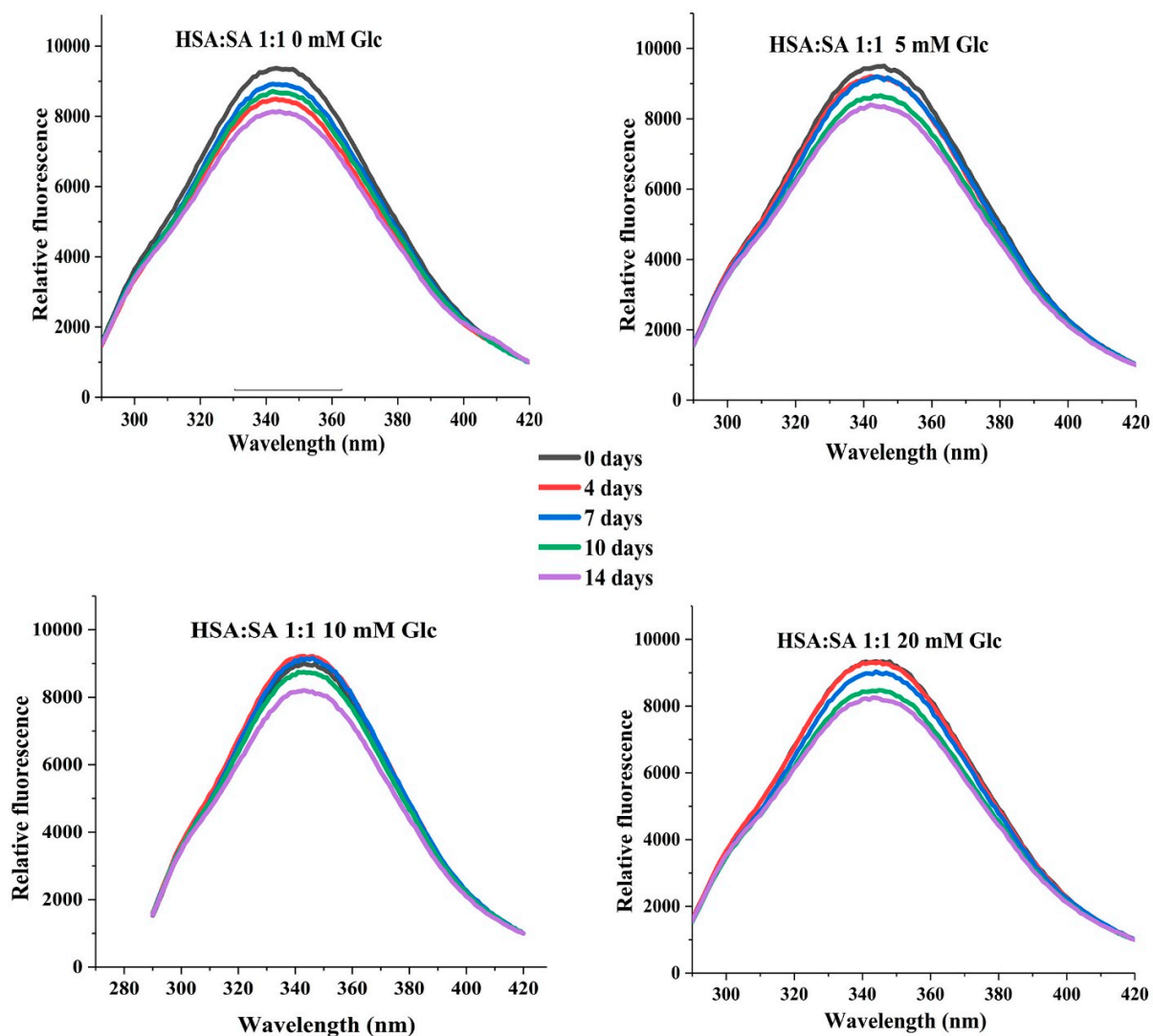


Figure S2. The effects of glucose concentrations (5, 10 and 20 mM) on the normalized Trp214 fluorescence intensity during 14 days of incubation of HSA in the presence of stearic acid (SA), HSA:SA 1:1. Before collecting spectra, HSA samples were diluted to the final concentration of 2 μ M. Spectra were recorded at 37°C after excitation at 280 nm.

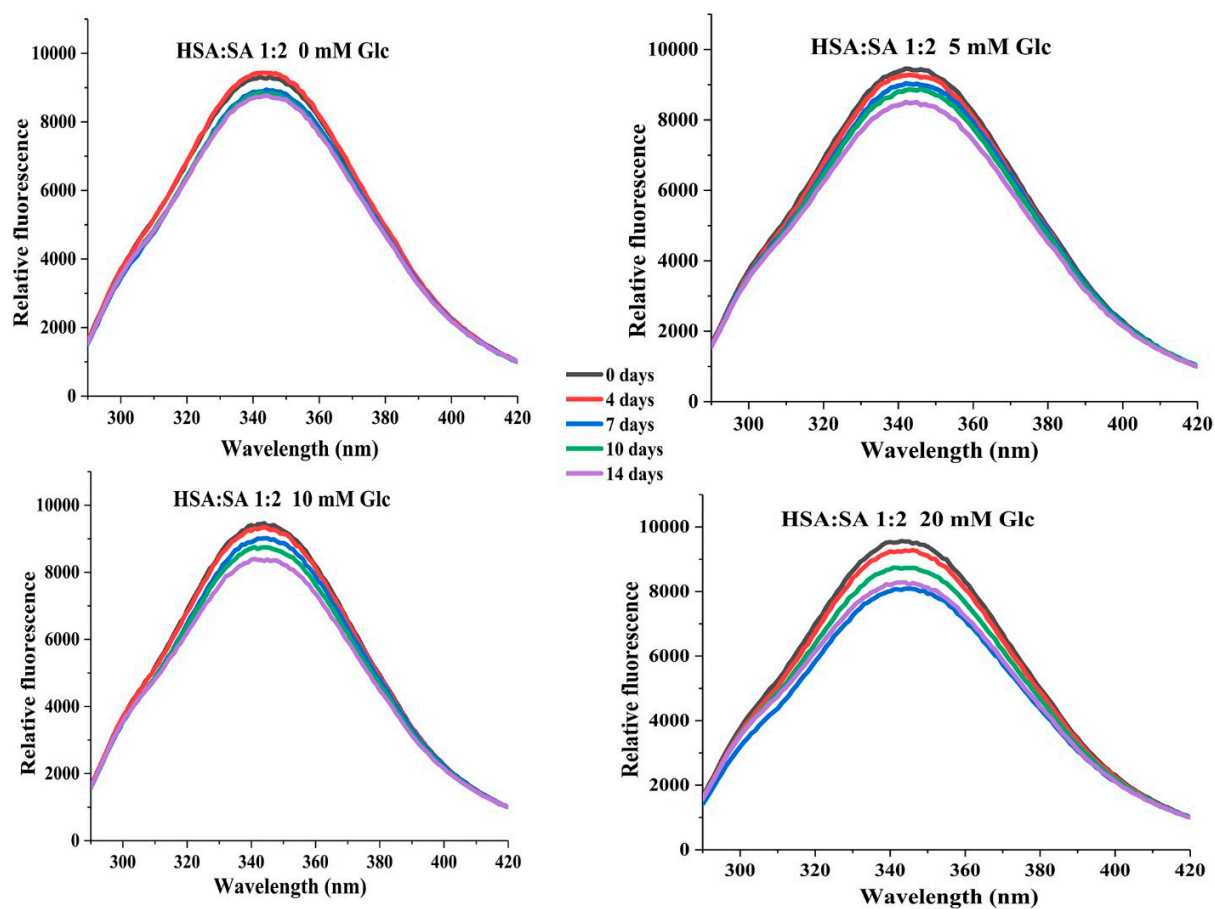


Figure S3. The effects of glucose concentrations (5, 10 and 20 mM) on the normalized Trp214 fluorescence intensity during 14 days of incubation of HSA in the presence of stearic acid (SA), HSA:SA 1:2. Before collecting spectra, HSA samples were diluted to the final concentration of 2 μ M. Spectra were recorded at 37°C after excitation at 280 nm.

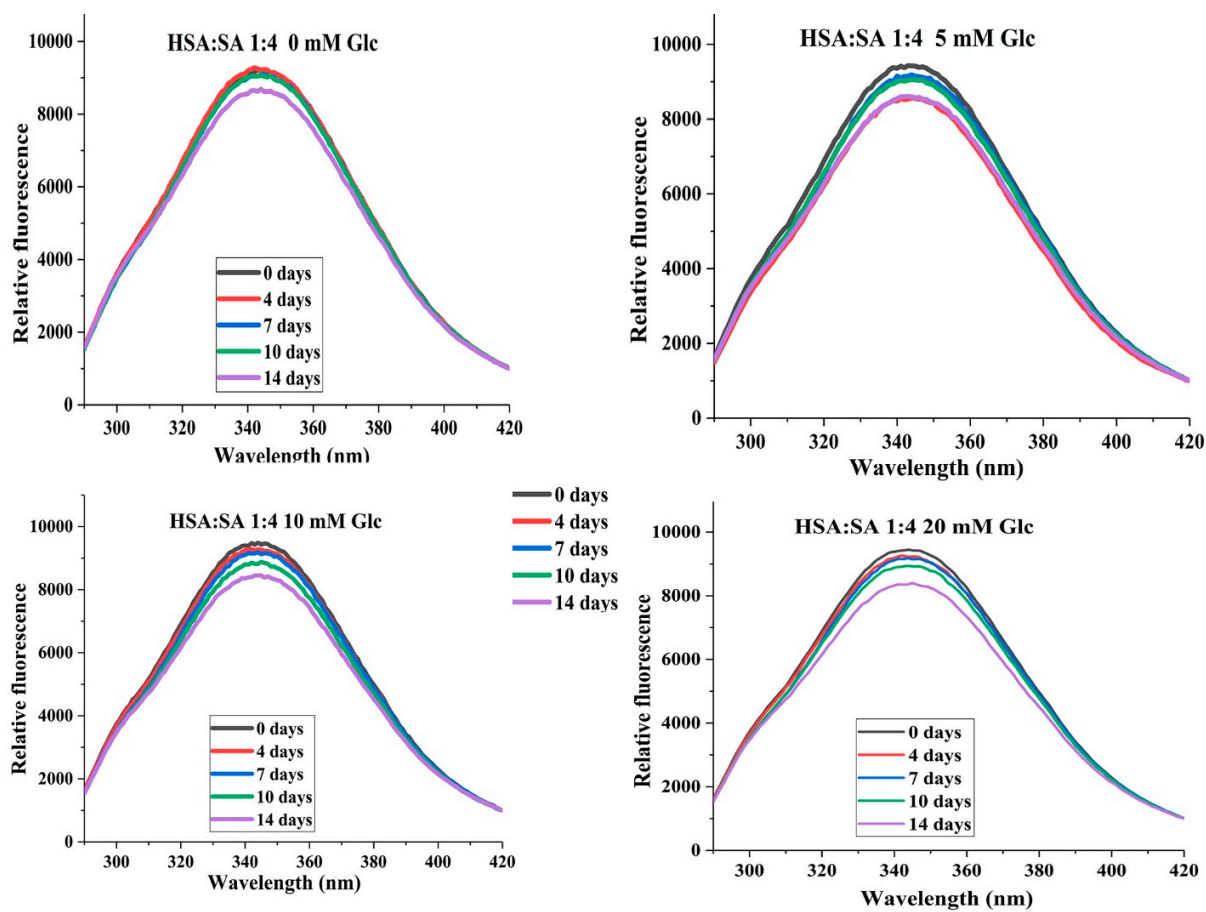


Figure S4. The effects of glucose concentrations (5, 10 and 20 mM) on the normalized Trp214 fluorescence intensity during 14 days of incubation of HSA in the presence of stearic acid (SA), HSA:SA 1:4. Before collecting spectra, HSA samples were diluted to the final concentration of 2 μ M. Spectra were recorded at 37°C after excitation at 280 nm.

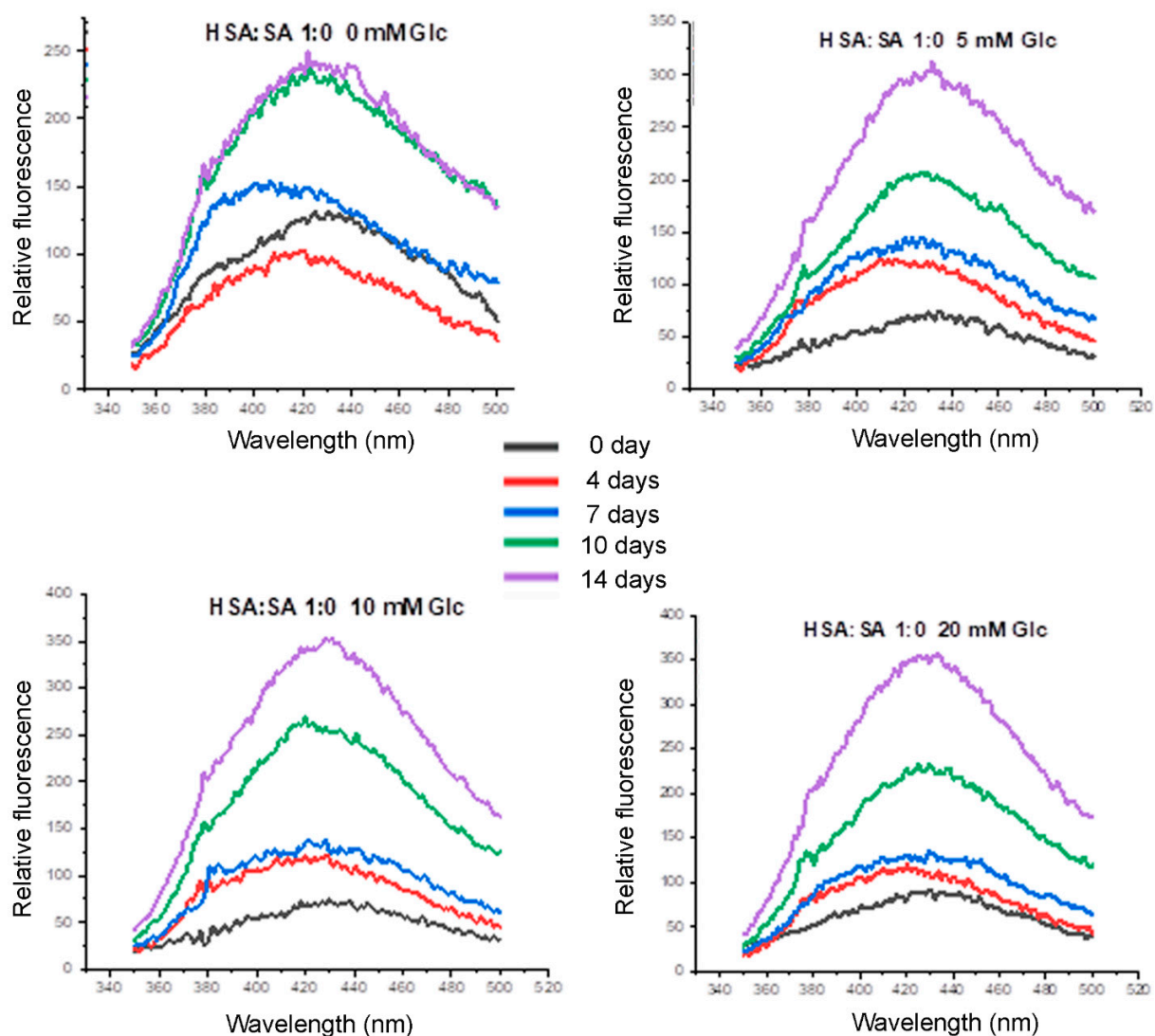


Figure S5. The effects of glucose concentrations (5, 10 and 20 mM) on the formation of AGEs during 14 days of incubation of HSA in the absence of stearic acid (SA), HSA:SA 1:0. Before collecting spectra, HSA samples were diluted to the final concentration of 2 μ M. Spectra were recorded at 37°C after excitation at 335 nm.

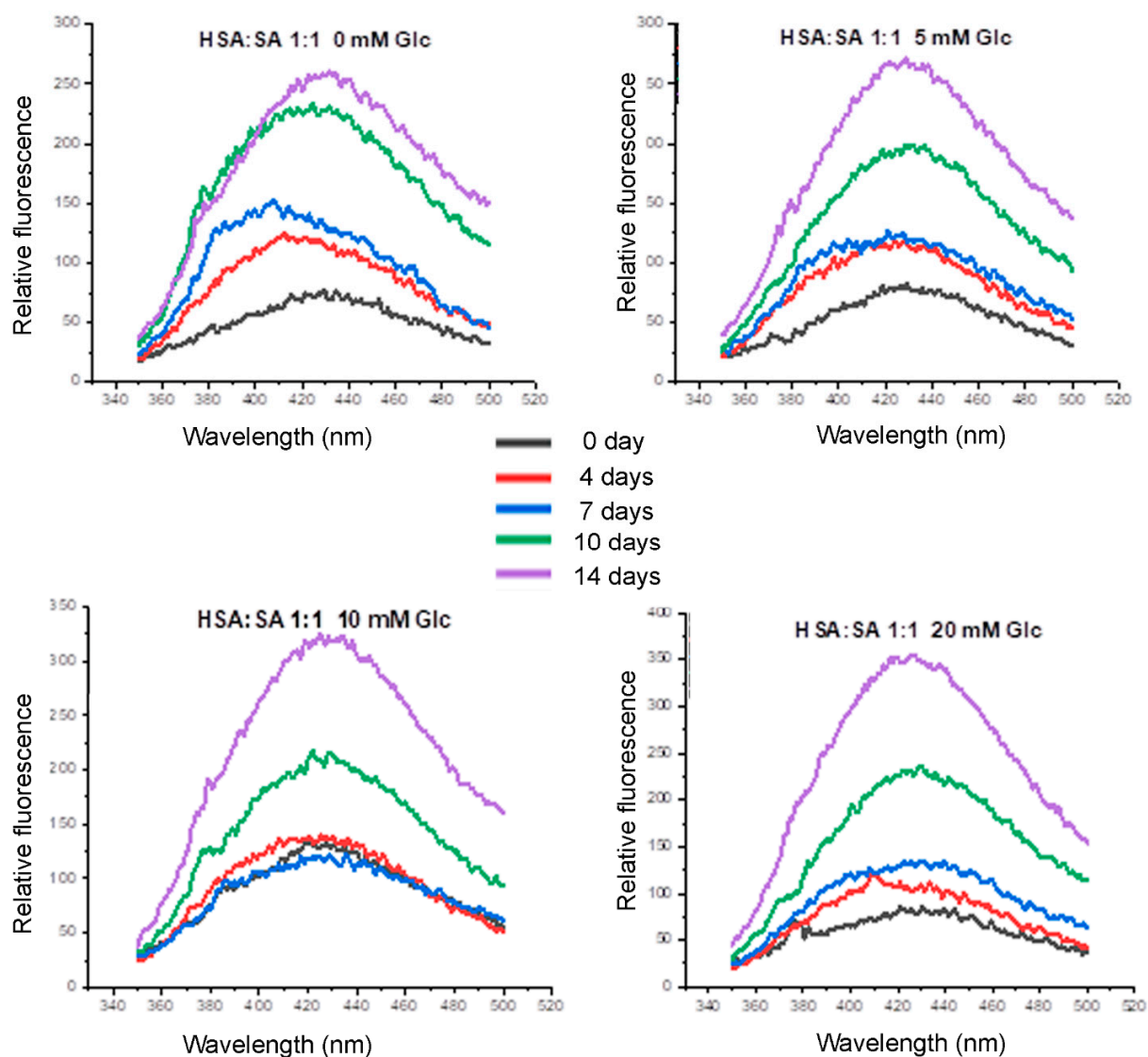


Figure S6. The effects of glucose concentrations (5, 10 and 20 mM) on the formation of AGEs during 14 days of incubation of HSA in the presence of stearic acid (SA), HSA:SA 1:1. Before collecting spectra, HSA samples were diluted to the final concentration of 2 μ M. Spectra were recorded at 37°C after excitation at 335 nm.

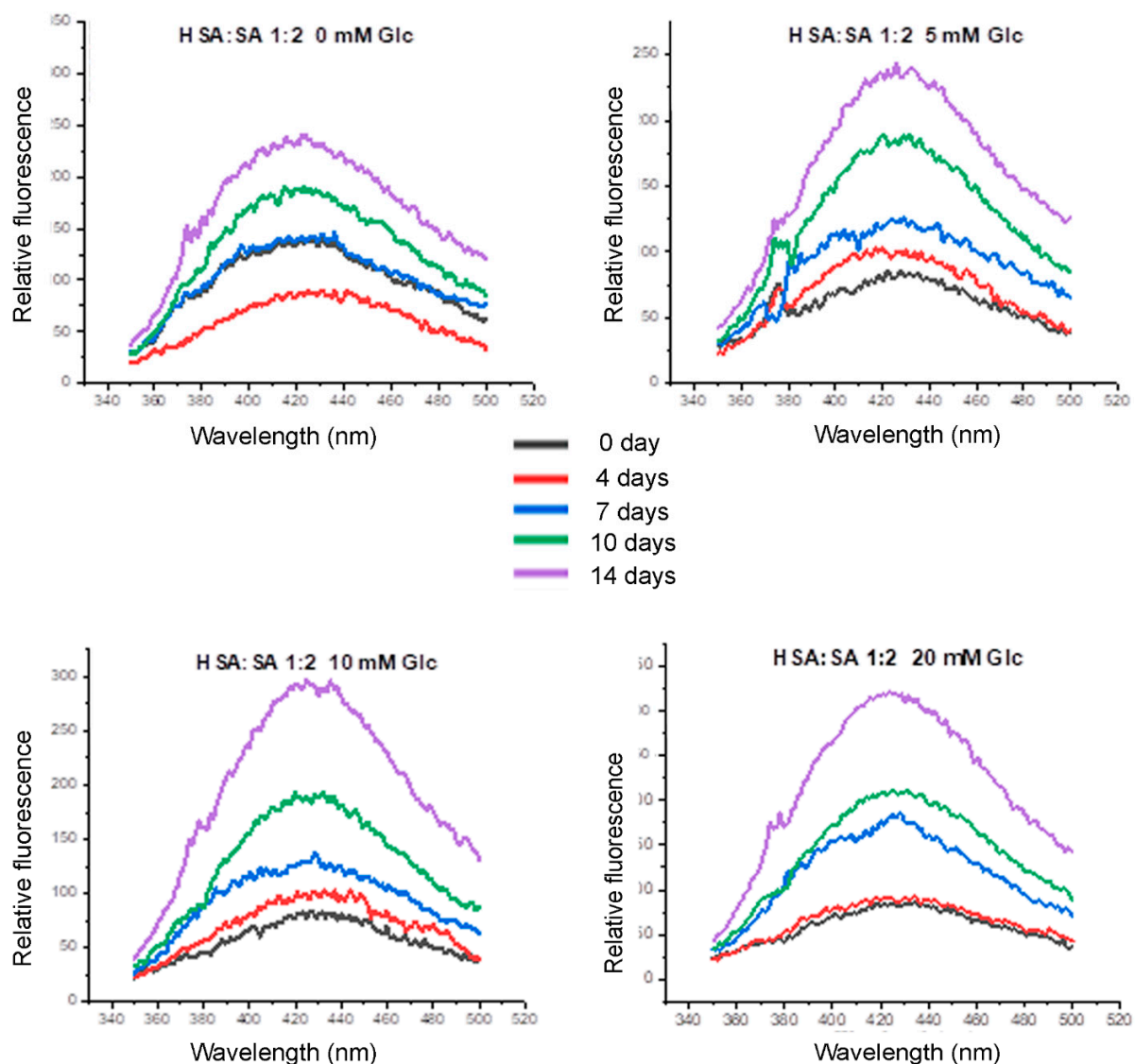


Figure S7. The effects of glucose concentrations (5, 10 and 20 mM) on the formation of AGEs during 14 days of incubation of HSA in the presence of stearic acid (SA), HSA:SA 1:2. Before collecting spectra, HSA samples were diluted to the final concentration of 2 μ M. Spectra were recorded at 37°C after excitation at 335 nm.

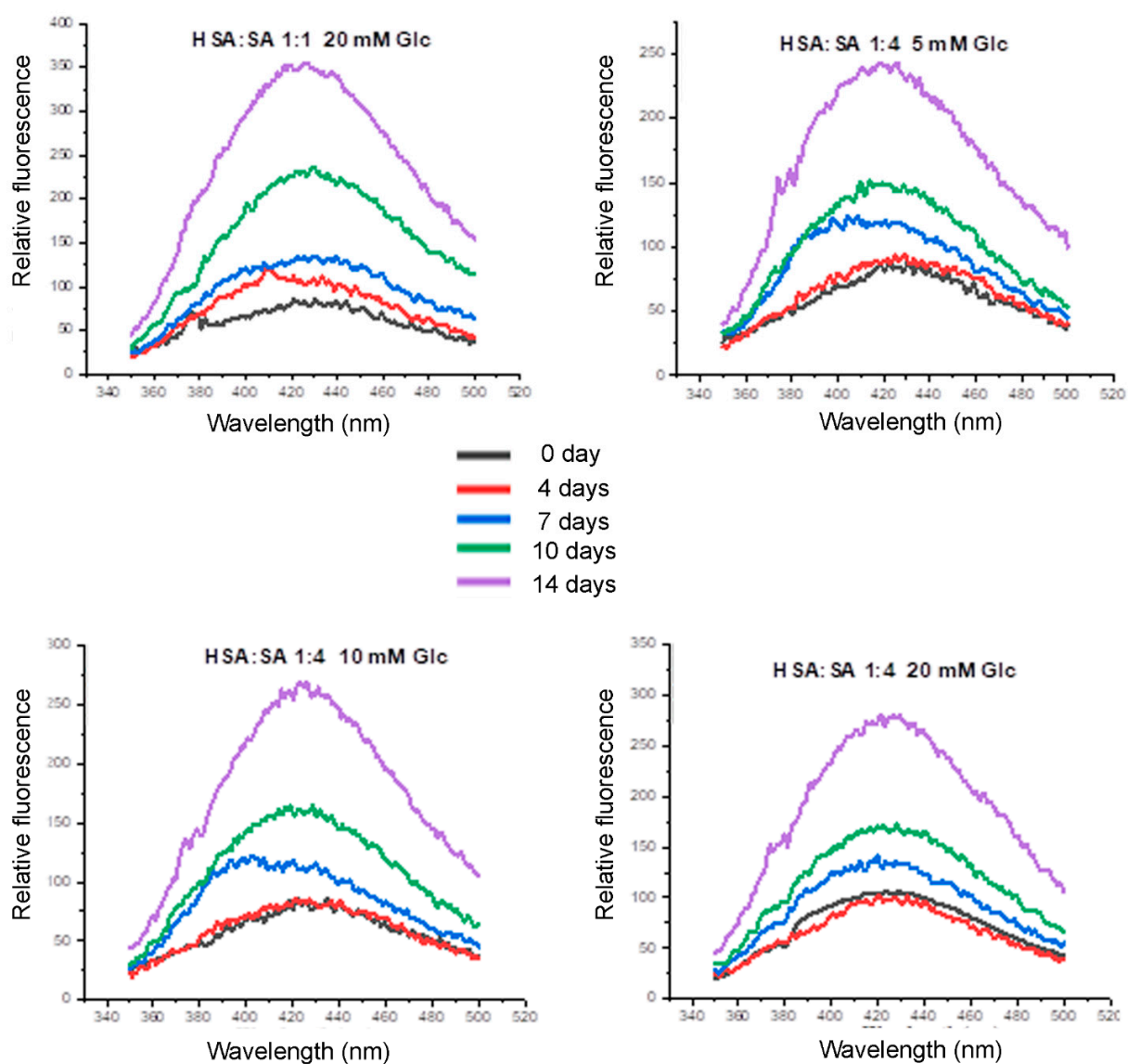


Figure S8. The effects of glucose concentrations (5, 10 and 20 mM) on the formation of AGEs during 14 days of incubation of HSA in the presence of stearic acid (SA), HSA:SA 1:4. Before collecting spectra, HSA samples were diluted to the final concentration of 2 μ M. Spectra were recorded at 37°C after excitation at 335 nm.