Collective substitutions of selective rare earths (Yb$^{3+}$, Dy$^{3+}$, Tb$^{3+}$, Gd$^{3+}$, Eu$^{3+}$, Nd$^{3+}$) in ZrO$_2$: An exciting prospect for biomedical applications.

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**Fig. S1** Raman spectra of multiple RE additions in ZrO$_2$. **Figs. S1a and b** represent the Raman spectra of the compositions recorded after heat treatment at 1400 and 1500 °C.
**Fig. S2**  Absorption spectra of all the multiple RE additions in ZrO$_2$ compositions after heat treatment at 1500 °C.