Supplemental Document

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Study on the effects of terahertz radiation on gene networks of *Escherichia coli* by means of fluorescent biosensors: supplement

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A study on effects of terahertz radiation on gene networks of *Escherichia coli* by means of fluorescent biosensors: supplemental document

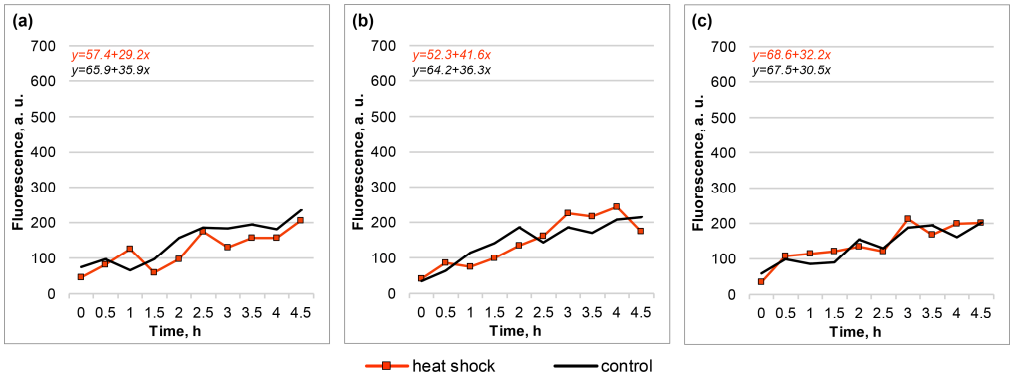

Fig. S1. Fluorescence dynamics (fluorescence curves and the respective linear regression equations) of biosensor cells in response to heat shock (heating at 42°C for 30 min): *E. coli*/pMatA-TurboGFP (a), *E. coli*/pSafA TurboGFP (b), and *E. coli*/pChbB-TurboYFP (c), as compared to the control. Results of one independent replication are presented.

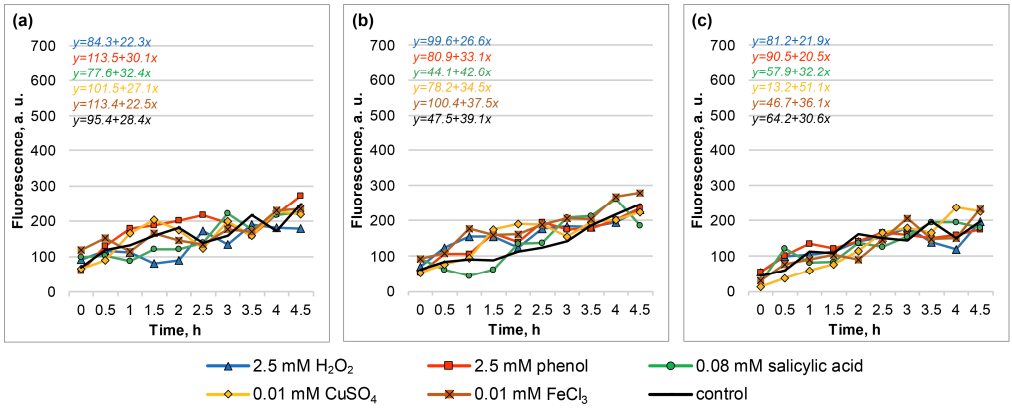

Fig. S2. Fluorescence dynamics (fluorescence curves and the respective linear regression equations) of biosensor cells in response a chemical stressor (2.5 mM hydrogen peroxide (H_2O_2), 2.5 mM phenol, 0.08 mM salicylic acid, 0.01 mM Cu(II) sulfate ($CuSO_4$), or 0.01 mM Fe(III) chloride ($FeCl_3$)): *E. coli*/pMatA-TurboGFP (a), *E. coli*/pSafA TurboGFP (b), and *E. coli*/pChbB-TurboYFP (c), as compared to the control. Results of one independent replication are presented.

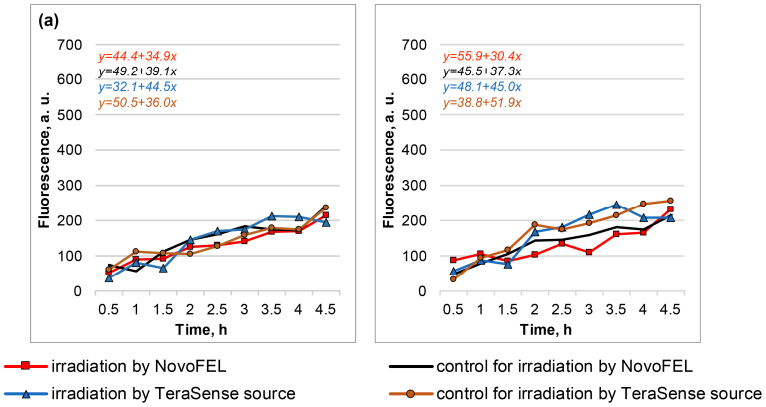

Fig. S3. Fluorescence dynamics (fluorescence curves and the respective linear regression equations) of *E. coli* cells harboring basic vector pTurboGFP-B (a) or pTurboYFP-B (b), in response to 30-minute THz irradiation by NovoFEL or the TeraSense source, in comparison with the respective control (bulk heating). Results of one independent replication are presented.