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Bio-Photons of Various Cellular Cultures and Tissues PATRICK HANN, ERNST KNOESEL, MARIA GARZON, SAMUEL LOFLAND, ERIK PFIFFER, Rowan University — Since it is non-invasive, there has been increased research in the field of bio-optics. Many biological systems display an unusual phenomenon, delayed luminescence, produced by what is known as bio-photons. We present an apparatus and procedure for the detection of these ultra-weak photonic emissions using a single photon detection device. The results of bread yeast, saccharomyces, and algae will be presented and compared to other reports in the literature.

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