Year-long biophoton measurements: normalized frequency count analysis and seasonal dependency

Journal of Photochemistry and Photobiology B: Biology
Volume 78, Issue 2, 1 February 2005, Pages 149-154

Hyun-Hee Jung[a, b], **Joon-Mo Yang**[b], **Won-Myung Woo**[b], **Chunho Choi**[b], **Jong-Soo Yang**[c] **and Kwang-Sup Soh**[b]

[a]Department of Physics Education, Seoul National University, Seoul 151-742, Republic of Korea

[b]Biomedical Physics Laboratory School of Physics, Seoul National University, Seoul 151-747, Republic of Korea

[c]The Research Institute of Basic Sciences, Seoul National University, Seoul 151-747, Republic of Korea

Received 16 February 2004;
revised 3 August 2004;
accepted 3 August 2004.
Available online 30 December 2004.

Abstract

Biophoton emissions from three healthy human subjects were measured for 52 weeks. The active nature of dorsal hands and personal discernable patterns in palmar hands were investigated through frequency count analysis of biophoton emission rates. Also, the seasonal dependency of biophoton emission rates from human hands was studied and we found that emission rates were lowest in autumn. There was a reversion of relative emission rates from the palms and the dorsa depending upon the season. The emission rates from the palms remain rather stable throughout the year, but those from the dorsa vary widely depending upon the season. These features of biophoton emission rates were considered in light of the diagnostic view of traditional Chinese medicine.