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Fluctuation of optical parameters in the brain

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rest, there is a rich spectrum of fluctuations due to systemic and local changes of the hemoglobin saturation and concentration. This spectrum is strongly altered by the execution of observed correlation and synchronization of the changes in the stimulation. Dramatic changes in hemoglobin saturation also occur during rest conditions, e.g., during sleep. The capability to determine local changes of hemoglobin saturation is useful to assess local circulatory and metabolic abnormalities in the brain.