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ANESTHESIOLOGY

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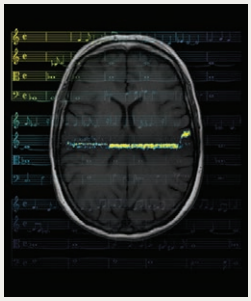

ON THE COVER: Recent studies of anesthetic-induced unconsciousness have focused on functional brain connectivity patterns, but questions about the dynamic nature of these connectivity patterns remain unanswered. In this issue of ANESTHESIOLOGY, three original research articles examine dynamic cortical connectivity during general anesthesia in human volunteers and surgical patients, demonstrating that there is no single fixed state of cortical connectivity during general anesthesia. In an accompanying Editorial View, Sleigh and Pullon compare the function of the conscious brain to that of an orchestra making music with an evolving balance of synchrony and syncopation, harmony and dissonance, regularity and surprise. Cover illustration: S. M. Jarret, M.F.A., C.M.I.

- Li *et al.*: Dynamic Cortical Connectivity during General Anesthesia in Healthy Volunteers, p. 870
- Vlisides *et al.*: Dynamic Cortical Connectivity during General Anesthesia in Surgical Patients, p. 885
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- Sleigh and Pullon: Syncopated Tempi of the Anesthetized Brain, p. 861

Education

IMAGES IN ANESTHESIOLOGY

ORIGINAL INVESTIGATION IN EDUCATION

Failure to debrief after critical events is common among anesthesia trainees and likely anesthesia teams. Communication breakdowns are associated with a high rate of the failure to debrief. *SUPPLEMENTAL DIGITAL CONTENT IS AVAILABLE IN THE TEXT*

REVIEW ARTICLES

The greatest gap in understanding loss and recovery of consciousness lies at the network level. Here the authors describe brain slice electrophysiology as a tool for a mechanistic understanding of consciousness as a thalamocortical phenomenon.

Knowledge of the normal paths of oxygen and carbon dioxide provides the grounds to understand hypoxemia and hypercarbia. Knowledge of the interaction of pressure, flow, compliance, and resistance provides the grounds to understand mechanical ventilation.

MIND TO MIND

Correspondence

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