

vocal fold physiology frontiers pdf

A novel high-performance Agent-Based Model (ABM) was adopted to simulate and visualize multi-scale complex biological processes arising in vocal fold inflammation and repair. The computational scheme was designed to organize the 3D ABM sub-tasks to fully utilize the resources available on current heterogeneous platforms consisting of multi-core CPUs and many-core GPUs. Subtasks are further ...

High-Performance Agent-Based Modeling Applied to Vocal

(A) Flow-induced vibrations in vocal folds (B) Glottal jet is produced due to vocal folds vibration (Zheng et al., 2010). Clinical Significance While the majority of the population is accustomed to normal voice production, at some point in our lives, at least 20% of the human population will develop a voice production disorder.

Frontiers | Toward A Simulation-Based Tool for the

In humans, healthy vocal folds are required for airway protection, respiration, swallowing, and phonation. This article focuses on vocal fold physiology in phonation. During phonation, the vocal folds act as an energy transducer that converts ...

VOCAL FOLD PHYSIOLOGY - ScienceDirect

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titled Vocal Fold Physiology , and has authored a book called Principles of Voice Production. He has lectured He has lectured throughout the world and has appeared on such educational television series as Innovation, Quantum, and

Vocal Practice | Singing | Human Voice - scribd.com

The core biologic processes affecting vocal folds are cellular. Although it is rare for a voice professional to understand that vocal health or illness often depends on cellular well-being or dysfunction, the laryngologist must be aware of this relationship.

CELLULAR PHYSIOLOGY OF THE VOCAL FOLDS - ScienceDirect

By Jan Gauffin, Britta Hammarberg. ISBN-10: 1870332431. ISBN-13: 9781870332439. This paintings on vocal fold body structure contains sections on phonatory mechanisms, voice resource acoustics and parameterization, body structure, and overview of the laryngeal functionality.

Download e-book for iPad: Vocal Fold Physiology: Acoustic

In Titze I.R. (Ed.), Vocal fold physiology: Frontiers in basic science (pp. 143â€“188). San Diego : Singular Publishing Group, Inc . Find this author on Google Scholar

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