

鼻腔结构影响人体嗅觉反应的数值模拟

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采用一个符合实际解剖学的鼻腔结构和气味分子扩散模型，对鼻腔流场进行了数值动态模拟，揭示了鼻腔结构对人体嗅觉反应的影响，为研究人工嗅觉提供了根据。

Simulation on the Human Olfaction Reacts Affected by Nasal Cavity Structure

Based a real human nasal cavity model and odorant molecules diffusion equation, the dynamic numerical simulation of flow field inside the nasal cavity has been realized. It can be used to discuss the human olfaction reacts affected by nasal cavity structure, and to study the mechanism of sense of olfaction. The simulation results can help to establish article nose.

关键词

鼻腔(nasal cavity); 嗅觉(olfaction); 模拟(simulation)