



都医学研セミナー

Molecular evolution of language and cognition

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● 会場 (公財) 東京都医学総合研究所 2階講堂

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【講演要旨】

The evolution of the human brain has led to an increased vulnerability to cognitive disorders such as autism and schizophrenia. These disorders include phenotypes such as dysfunction in language and communication. It is therefore interesting that the implementation of spoken language in humans is perhaps the only unique evolved characteristic of humans compared to other primates. However, while the molecular mechanisms and brain circuitry underlying speech and language in humans have likely expanded upon evolutionarily conserved circuitry for vocal communication most of these mechanisms and circuitry remain unknown. We are taking several approaches to identify the genes and molecular pathways important for both the evolution of these brain phenotypes as well as how they are disrupted in cognitive disorders. We are using a comparative genomics approach to identify human-specific gene coexpression signatures. We are also carrying out detailed mechanistic studies of single genes thought to be critical for vocal communication and cognition. Together, these approaches focus on human-relevant neuronal functions in order to develop improved therapies for disorders of cognition.

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参加自由

詳細は右記問合せ先まで

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