

イノベティブ・

デンティストリー特論

BASICS IN DATA-DRIVEN RESEARCH, AI-EMPOWERED

BONE AND MATERIAL RELATED RESEARCH

データ駆動研究の基礎, AI駆動骨・マテリアル研究

NOV. 7TH, 2025, PM5:00-7:00

岡山大学鹿田キャンパス **歯学部棟4階 応用講義室**

ASSOCIATE PROFESSOR.

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BASICS IN DATA-DRIVEN RESEARCH

In bioinformatics analysis, it is essential to compress large-scale sequencing data and create figures and tables that minimize confusion for readers. Using RNA-seq datasets as examples, this lecture outlines the key skills required for effective data visualization, with a particular emphasis on the importance of universal design. By the end of the lecture, participants will gain an understanding of what kinds of figures can be generated from RNA-seq data and how these visualizations can be applied to advance research.

AI-EMPOWERED BONE AND MATERIAL RELATED RESEARCH

The use of generative AI based on large language models has already transformed information gathering in business and society. With the increasing depth of contextual understanding, its application to scientific research has reached a practical level, with rapid advancements occurring especially since June 2025. This lecture discusses effective applications and cautions in using generative AI for scientific research. Drawing from the speaker's own studies in bone metabolism and novel material development, real examples will be presented to demonstrate how generative AI can accelerate research.

The study group are considered as classes of "Introduction of Basic Medical Sciences" and "Introduction of Clinical Medical Sciences" and counted for the unit accreditation. Receive a sign from the organizer on the "Attendance Card", when you attend them. Staffs, graduate students, undergraduate students, and anyone who are interested in are welcome to the lecture.

Inquiries regarding to Study Group:

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