

Tuesday, February 20, 2024, 10:10-11:00

TI-FRIS/FRIS Symposium 2024 – Invited Lecture Abstract
トップ研究者講座 / Lecture Course by Top Researchers

基礎医学研究から医理工連携へ
～細胞・臓器・生体の発する電気及び振動信号解析～

Exploring Electrical and Vibrational Signals from Cells, Organs, and Living
Bodies: From Medical Research toward Collaborations in Medical Science
and Engineering.

尾野 恭一 (秋田大学)
Kyoichi Ono (Akita University)

生理学は、生体の生理機能や病態時の変化を、分子から個体まで統合的に理解する学問領域である。ライフサイエンスの発展とともに、細胞レベルから生体レベルまでの広い範囲で、人体の生理機能や病態に関する統合的理解が進みつつある。こうした、いわゆる医学・生理学研究の進歩には、測定・分析のための技術開発が背景にあるのは言うまでもない。近年、医理工連携が注目されているが、そもそも生命科学・医学と理工学は常に融合・影響し合いそれぞれの発展を促進してきたのである。本講演では、特に心臓循環系の生理及び病態に関する知見を解説し、医理工連携への応用と展望について私見を述べたい。

Tuesday, February 20, 2024, 16:00-16:50

TI-FRIS/FRIS Symposium 2024 – Invited Lecture Abstract
学際研究講座 / Lecture Course on Interdisciplinary Research

生殖細胞の移動の意義と仕組みに挑む学際研究
Interdisciplinary research for germ cell migration

齋藤 大介 (九州大学)
Daisuke Saito (Kyushu University)

生命の連続性、遺伝、進化を担う生殖細胞は重要であるから、成体では生殖細胞の「ゆりかご」と称される生殖腺の中で大切に「保護」されている。しかし体を「建築中」の胎児期においては生殖細胞は体の「端」に生まれる。ゆえに遠く離れた「ゆりかご」まで辿り着かねばならない。私は「生物が生殖細胞を移動させるという発生様式をなにゆえ採用したのか」が知りたくて研究を進めている。本講演では、学際研究を通して初めて見えてきたこと、学際研究からもたらされた研究の新展開に留意しつつ、我々のこれまでの研究を紹介させていただきます。

Wednesday, February 21, 2024, 9:30-10:20

TI-FRIS/FRIS Symposium 2024 – Invited Lecture Abstract
トップ研究者講座 / Lecture Course by Top Researchers

**A Career in Science:
The Views, Experiences and Advice of a Middle-Age Professional**

Luiz G. Jacobsohn (Clemson University)

In this talk, I will present my own journey, first as a student and then as a professional, building a career in the field of Science. I will discuss my academic preparation, research experiences, and how my vision and goals evolved over the years. Many experiences affected my academic and professional development. These include international collaborations, participation in a variety of research projects, and professional opportunities in different environments, namely academia and national laboratories, as well as in different countries. Some of these experiences were life changing and I will discuss how they led to professional achievements and impacted my personal life. I will conclude with ideas one should consider while building a professional career and pursuing personal fulfillment.

Wednesday, February 21, 2024, 16:10-17:00

TI-FRIS/FRIS Symposium 2024 – Invited Lecture Abstract
学術インパクト講座 / Lecture Course on Academic Impact

Navigating the Evolving Landscape: Maximizing Impact in Academic Publishing

Hiromitsu Urakami (Springer Nature)

This seminar aims to assist researchers in navigating the evolving publishing landscape. When considering the impact of research publication, the scientific content is the primary driver of a research paper's value and impact. However, there are other factors that play an important role that could enhance its influence.

With an emphasis on some of the key topics, like open science and research communication, this seminar will explore approaches to help maximize the impact, or in the context of this seminar, accessibility, visibility, findability, and usability, of scholarly work. One of the focuses will be on Open Science, given its timeliness, as the Japanese government is set to mandate Open Access for publishing and data deposition for nationally funded projects accepted after FY2025. We hope attendees will gain up-to-date knowledge of recent developments in publishing, whilst deepening understanding of some of the approaches researchers could consider to amplify the influence of their research within and beyond their disciplines.