

# Practical Bioinformatics Course FY2023

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Bioinformatics Associate Professor

FY-2023 “*Practical Bioinformatics Course*” will be held on *zoom/on-demand*. Course will introduce **R programming language** and common methods used in **biological/medical & NGS data analysis**. Each lecture (~2hrs) will consist of: (i) **Introduction** to a given topic, (ii) **Data Analysis Session** on own PC using **R & RStudio** (*assistance on zoom will be provided*) and (iii) a **short discussion**. Course will be also **actively supported** on **Slack** & during **office hours**.

**All R skill levels including beginners are welcome to join!**

	Date & Time	Lecture Topic
Lecture 1	2023 May 15, 17 : 30~19 : 30	<i>Introduction to R Programming Language &amp; Environment</i>
Lecture 2	2023 May 29, 17 : 30~19 : 30	<i>Basic Operations in R &amp; RStudio</i>
Lecture 3	2023 June 5, 17 : 30~19 : 30	<i>Exploring &amp; Transforming Data Structures in R</i>
Lecture 4	2023 June 12, 17 : 30~19 : 30	<i>Plotting Biological Data in R</i>
Lecture 5	2023 June 26, 17 : 30~19 : 30	<i>Working with Gene Expression Data</i>
Lecture 6	2023 July 3, 17 : 45~19 : 45	<i>Differential Gene Expression Analysis</i>
Lecture 7	2023 July 10, 17 : 30~19 : 30	<i>Gene Set/Pathway Enrichment Analysis</i>
Lecture 8	2023 July 24, 17 : 30~19 : 30	<i>Basics of Single Cell RNA-seq Data Analysis</i>

- **8 Lectures:** Zoom/on-demand (English)
- **Advanced registration required:**  
(up to 20-25 people)
- **Fee:** please see application form for details
- **Application Form:**  
<https://forms.office.com/r/daX0W3g0cZ>

- **Application Deadline:**  
**20-April-2023**



## ●問い合わせ先●

【大学院（医科学専攻）選択科目について  
のお問い合わせ】

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【その他のお問い合わせ】

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