

# Practical Bioinformatics Course FY2022

Instructor : Jordan RAMILOWSKI (YCU)

Bioinformatics Associate Professor

FY2022 “*Bioinformatics Practical Course*” will introduce *R* programming language and then cover theoretical and practical aspects of most commonly used Next Generation Sequencing (NGS) Data Analysis methods. Lectures will consist of **Introduction** to a given topic followed by a **Practical Session** when students will use own PC to analyze the data in *R* & *RStudio* environment. Optional course material and homework will be provided. Course will be held **Online** and will be supported on **Slack/Office Hours**.

	Date & Time	Lecture Topic
Lecture 1	2022 May 16, 17 : 30~19 : 30	<i>Practical Bioinformatics Course &amp; Introduction to R</i>
Lecture 2	2022 May 30, 17 : 30~19 : 30	<i>Basic Operations in R &amp; RStudio</i>
Lecture 3	2022 June 13, 17 : 30~19 : 30	<i>Working with Gene Expression Data &amp; Metadata</i>
Lecture 4	2022 June 27, 17 : 30~19 : 30	<i>Gene Mapping and Counting</i>
Lecture 5	2022 July 11, 17 : 30~19 : 30	<i>Differential Gene Expression Analysis</i>
Lecture 6	2022 July 25, 17 : 30~19 : 30	<i>Pathway Enrichment Analysis</i>
Lecture 7	2022 September 26, 17 : 30~19 : 30	<i>Plotting NGS Data Analysis Results</i>
Lecture 8	2022 October 3, 17 : 30~19 : 30	<i>Introduction to Single Cell RNA-seq Data Analysis</i>

- 8 Online Lectures: Zoom/English
- Advanced registration required: up to 20-25 people
- Fee: see application form for details
- Application Form:  
<https://forms.office.com/r/4pJSxPMCVa>
- Application Deadline:  
21-April-2022



## ●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】

（福浦キャンパス）医学教育推進課  
学務・教務担当 宮川

TEL : 045-787-2530（内線2511）

E-mail : [igakuin@yokohama-cu.ac.jp](mailto:igakuin@yokohama-cu.ac.jp)

【その他のお問い合わせ】

（福浦キャンパス）研究・産学連携推進課  
産学連携担当 山崎

TEL : 045-787-2529（内線2514）

E-mail : [ycu\\_bi00@yokohama-cu.ac.jp](mailto:ycu_bi00@yokohama-cu.ac.jp)