

Special Practical Bioinformatics Course: scRNA-seq Data Analysis

FY-2022 KYOTEN “*Special Practical Bioinformatics Course*” will cover single cell data analysis in *R 4.2+* (*RStudio*, *Seurat 4+*, *Monocle 3*).

The course (**4 classes**) will be held online (**Zoom**) and given in **English**.

Course participation requires: (i) basic familiarity with *R* & *RStudio*, (ii) basic understanding of RNA-seq single cell technology, and (iii) setting up own computational environment (instructions will be provided).

- ❑ **Format & Language:** Zoom / English
- ❑ **Each Class:** 2hrs (Lecture & Practical Session in *R* /*RStudio*)
- ❑ **Course Fee:**
 - YCU Students: Free
 - YCU Members (non-student): 5,000 JPY
 - External Students collaborating at YCU KYOTEN: Free
 - External Researchers collaborating at YCU KYOTEN: 5,000 JPY
 - Other External Participants: 15,000 JPY
- ❑ **Instructor:** Jordan RAMILOWSKI, PhD (YCU/Bioinformatics Lab)

	Lecture Title	Date & Time
1.	<i>“Introduction to scRNA-seq data analysis & to Seurat Software”</i>	16-Jan-2023 (Mon) 17:30–19:30 JST
2.	<i>“Common scRNA-seq data analysis workflow in Seurat”</i>	30-Jan-2023 (Mon) 17:30–19:30 JST
3.	<i>“Integration and analysis of multiple scRNA-seq datasets in Seurat”</i>	13-Feb-2023 (Mon) 17:30–19:30 JST
4.	<i>“Trajectory analysis of scRNA-seq data with Monocle 3”</i>	27-Feb-2022 (Mon) 17:30–19:30 JST

■ **Advanced registration is required:** up to 20 participants

■ **Application & Course Details:**

<https://forms.office.com/r/cJwZfcYSng>

■ **Application Deadline:** **23-December-2022**

■ **Contact Information:** kyoudou@yokohama-cu.ac.jp

