연구데이터 분석과정 (R프로그래밍)

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Chapter 1 Introduction 강의 개요

- 장소: 코빅 3층 전산교육장(1304호)
- 강사: 한국생명공학연구원 바이오합성연구센터 김하성
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- 강의자료: https://greendaygh.github.io/KRIBBR2020/

1.1 References books 참고 교제

- Using R for Introductory Statistics by John Verzani
 - Free version of 1st Edition
 - https://cran.r-project.org/doc/contrib/Verzani-SimpleR.pdf
 - Second edition
 - https://www.crcpress.com/Using-R-for-Introductory-Statistics-Second-Edition/Verzani/p/book/9781466590731
- R for Data Science (https://r4ds.had.co.nz, https://github.com/hadley)
- Bioinformatics Data Skills by Vince Buffalo (http://2.droppdf.com/files/5aTvl/bioinformatics-data-skills.pdf)
- First Course in Statistical Programming with R by Braun and Murdoch (https://www.cambridge.org/core/books/first-course-in-statistical-programming-with-r/C9F088122AB40517B07FA77F2F0FDE2F)
- Introductory Statistics with R by Dalgaard
 (http://www.academia.dk/BiologiskAntropologi/Epidemiologi/PDF/Introductory_Statistics_with_R__2nd_ed.pdf)
- Modern Applied Statistics with S by Venables and Ripley (http://www.bagualu.net/wordpress/wp-content/uploads/2015/10/Modern_Applied_Statistics_With_S.pdf)
- 일반통계학 (영지문화사, 김우철 외)

1.2 References 참고 자료

- R 홈페이지 https://www.r-project.org/
- Rstudio 홈페이지 https://www.rstudio.com/
- Packages for biologists https://www.bioconductor.org/
- R 기본 문서들 (소개, 사용, 설치, 운영) https://cran.r-project.org/manuals.html
- R ebooks https://bookdown.org/
- Cheat Sheets https://www.rstudio.com/resources/cheatsheets/

- https://resources.rstudio.com/
- http://shiny.rstudio.com/tutorial/

1.3 Schedule 강의 계획

- Day1 R/Rstudio/Statistics/Sequence basics
- Day2 Bioconductor
- Day3 dplyr and ggplot2
- Day4 Case study