

Data Integration in Bioinformatics and Biomedicine Review and Open Problems

Alex Sanchez-Pla, Francesc Carmona

Genetics, Microbiology and Statistics Department (UB) Statistics and
Bioinformatics Unit (VHIR)

2021-07-07

.columnwise[### 1) Data, Data-related Projects and Data Science ### 2) Integrative Omics Data Analysis ### 3) Open problems we work in ### 4) Biomedical data integration and data sharing ### 5) Data Projects we work in ### 6) Looking ahead]

class: inverse, middle, center

name: Introduction

Data, Data-related Projects and Data Science

The Data Science Projects Platform @VHIR

```
.center[ ]
```

class: inverse, middle, center

name: IODA

Integrative Omics Data Analysis

class: inverse, middle, center

name: IODAProjects

Open problems we work in

class: inverse, middle, center

name: DataSharing

Biomedical data integration and data sharing

class: inverse, middle, center

name: DataProjects

Data Projects we work in

Alguns projectes *externs*

- ▶ Principals
 - ▶ EOSC-Life
 - ▶ EU-PEARL
 - ▶ VEIS
 - ▶ *IMPACT*
- ▶ Altres
 - ▶ EHDEN/OMOP al VH
 - ▶ EUHA/TEHDAS al VH
 - ▶ DARWIN & EMA al VH/VHIR

Alguns projectes Interns

- ▶ Liderats per nosaltres
 - ▶ Comissió Mixta VH/VHIR per a l'ús secundari de les dades
 - ▶ Creació d'un catàleg de dades de COVID
- ▶ Co-participats
 - ▶ Implementació de DMPs per als projectes de recerca
 - ▶ Repositoris de dades i ciència oberta
 - ▶ Implementació d'una plataforma per a l'anàlisi integrada de dades

class: inverse, middle, center

name: Estrategia

Looking ahead