

# **Data capturing, experimental design and data analysis**

2<sup>nd</sup> June 2022 - Workshop ECO-PB Summer School

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# On-farm organic cultivar trials – LIVESEED booklets



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## Booklets

### LIVESEED booklets – Tools for practitioners

In this section, you will find all booklets produced in the framework of the LIVESEED project.

<https://www.liveseed.eu/tools-for-practitioners/booklets/>

# SeedLinked

Vedere le valutazioni di

Tutte le regioni La tua zona climatic

**Culture**

- Basilico (49)
- Fagiolo (414)
- Barbabietola (86)
- Broccolo (106)

Show more crops

**Caratteri**

- Resa
- Sapore
- Aspetto
- Resistenza alle malattie

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**SUN GOLD**  
Pomodoro

★ 4.2 Complessivamente (106)  Confronta



**JULIET**  
Pomodoro Ciliegino

★ 4.0 Complessivamente (57)  Confronta



**STUPICE**  
Pomodoro Varietà tradizionale

★ 4.0 Complessivamente (552)  Confronta

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**SNACKABELLE RED**  
Pepe Dolce



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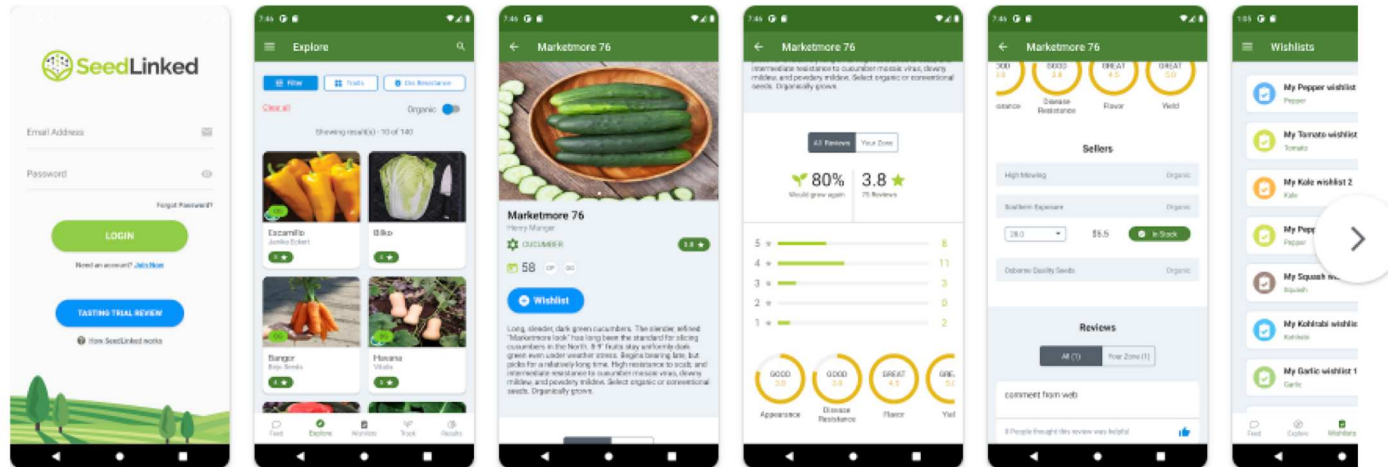
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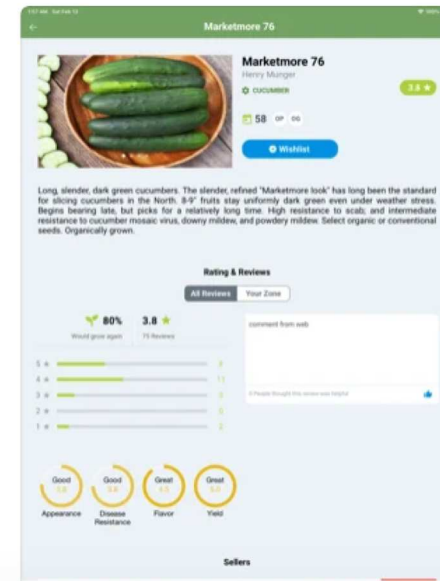
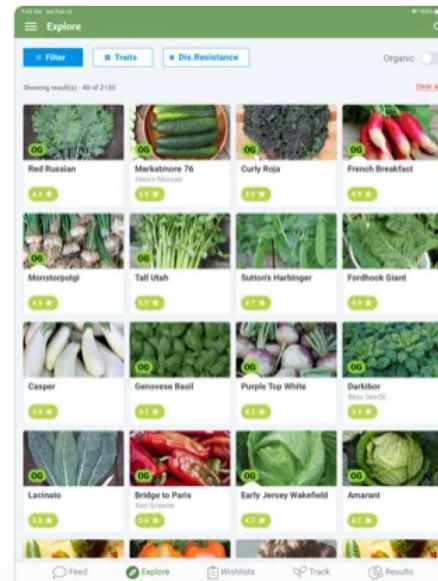
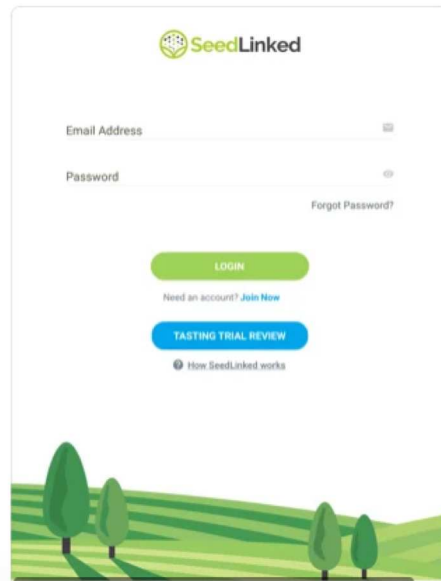
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# Field Book

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## Field Book

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Developer contact

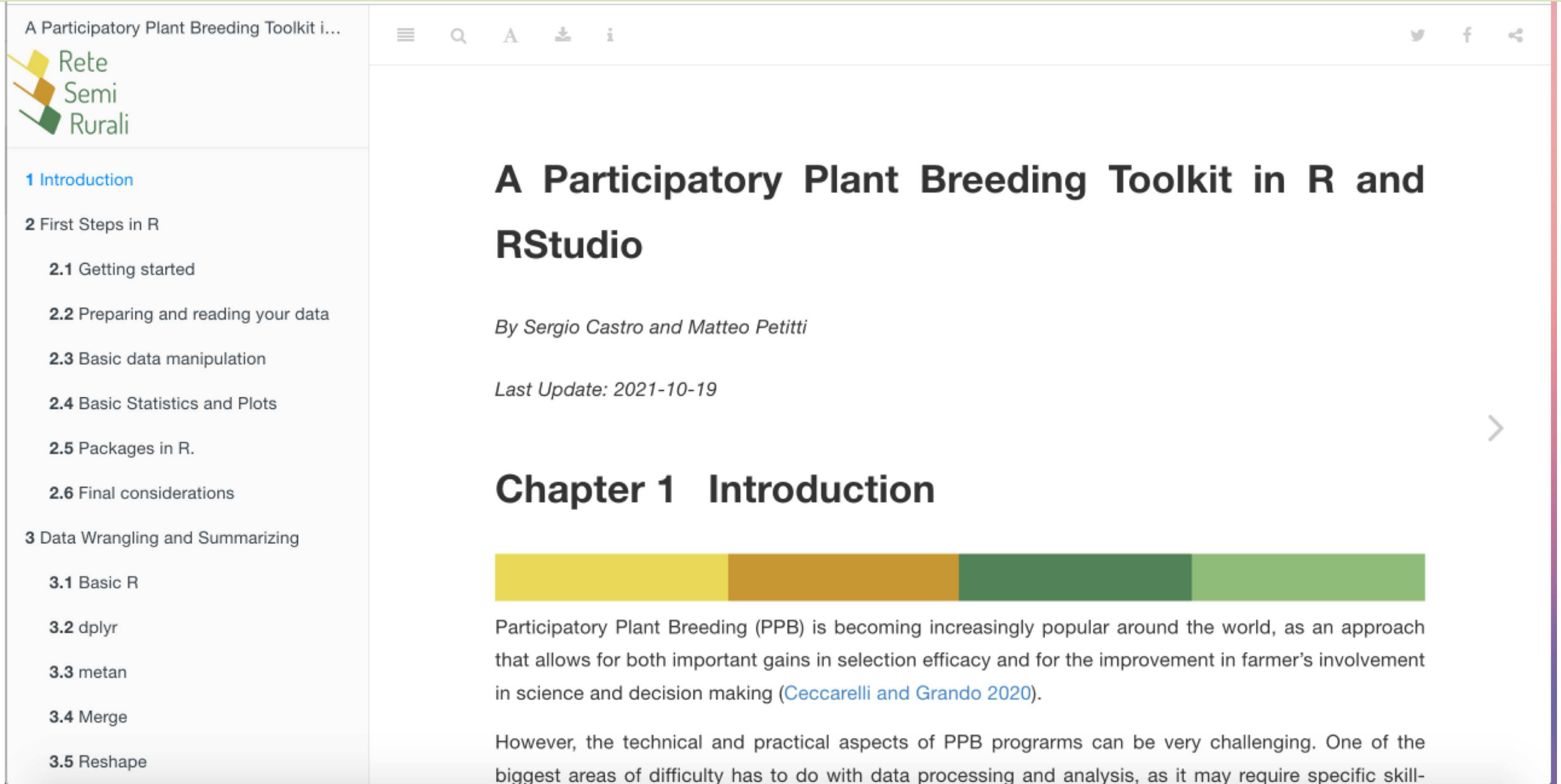
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# R toolkit for experimental designs and data analysis



A Participatory Plant Breeding Toolkit i...

Rete  
Semi  
Rurali

- 1 Introduction
- 2 First Steps in R
  - 2.1 Getting started
  - 2.2 Preparing and reading your data
  - 2.3 Basic data manipulation
  - 2.4 Basic Statistics and Plots
  - 2.5 Packages in R.
  - 2.6 Final considerations
- 3 Data Wrangling and Summarizing
  - 3.1 Basic R
  - 3.2 dplyr
  - 3.3 metan
  - 3.4 Merge
  - 3.5 Reshape

## A Participatory Plant Breeding Toolkit in R and RStudio

By Sergio Castro and Matteo Petitti

Last Update: 2021-10-19

### Chapter 1 Introduction

Participatory Plant Breeding (PPB) is becoming increasingly popular around the world, as an approach that allows for both important gains in selection efficacy and for the improvement in farmer's involvement in science and decision making (Ceccarelli and Grando 2020).

However, the technical and practical aspects of PPB programs can be very challenging. One of the biggest areas of difficulty has to do with data processing and analysis, as it may require specific skill-

<https://retesemirurali.github.io/PPB-Toolkit/>