



GENE-SWITCH



Cooking up knowledge with Big Data

Data collected in very large quantities are called **Big Data**, and they have changed the way we think about and answer questions in many different fields, including biology and animal breeding.



Ingredients

- Numbers
- Measurements
- Words
- Descriptions



Cooking instructions

When working with Big Data, **computers** are an indispensable tool. **Algorithms** are the recipes for data science, as they are a set of **detailed instructions** for a computer to follow. The instructions must be very precise and written in a language that the computer understands so that the computer knows exactly what a data scientist needs it to do.

Cookbook

Data scientists can combine several algorithms to find answers, just like we sometimes need more than one recipe for a meal. Such a combination of data science recipes is called a **software package**, an organized collection of algorithms that work together on a particular task or have a similar function.



The GENE-SWitCH project has received funding from the European Union's Horizon 2020 research and innovation program under Grant Agreement No 817998. The sole responsibility of this publication lies with the authors. The European Commission and the Research Executive Agency are not responsible for any use that may be made of the information contained therein.