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# **Lumache**

***Release 0.1***

**Graziella**

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**scDispersion** is a statistical method to robustly estimate the dispersion parameter of the intra-individual gene expression across cells.

We will firstly use MLE method to estimate the dispersion of the intra-individual gene expression across all cells. Then, a Cox and Reid adjustment was added to the profile likelihood.

It pulls data from the [Open Food Facts database](#) and offers a *simple* and *intuitive* API.

Check out the [Usage](#) section for further information, including how to [Installation](#) the project.

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**Note:** This project is under active development.

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## 1.1 Usage

### 1.1.1 Installation

To use Lumache, first install it using pip:

```
(.venv) $ pip install lumache
```

### 1.1.2 Creating recipes

To retrieve a list of random ingredients, you can use the `lumache.get_random_ingredients()` function:

The `kind` parameter should be either `"meat"`, `"fish"`, or `"veggies"`. Otherwise, `lumache.get_random_ingredients()` will raise an exception.

For example:

```
>>> import lumache
>>> lumache.get_random_ingredients()
['shells', 'gorgonzola', 'parsley']
```

## 1.2 API