CoDo - COmbined DOsimetry model Quick Guide

Daina Romeo

August 11, 2021
Version: 1.3

1 Quick guide

1.1 Set up

1. Download all files available at DOI `https://doi.org/10.5281/zenodo.4889168`.

2. Download and install the MPPD model from `https://www.ara.com/mppd/`.

1.2 Before running the model

1. Fill the input file template with as many entries as needed. Parameters colored in green can be skipped if the default values are appropriate. Parameters colored in orange may be calculated by the model if not provided by the user.

2. Make sure that the screen resolution is $2560 \cdot 1440$ (100% scaling).

1.3 Running the model

1. Open CoDo.py

2. In the code, indicate the location of the input file, the supporting files, and the MPPD folder (usually in the document folder).

3. In the code, indicate the starting and ending row of the input file to consider for the calculation. If only one line is computed, starting row = ending row.

4. Press Run

5. If the use of the MPPD software is needed, a message will appear. In that case:

    a) Open the MPPD software and make sure the program window is visible.

b) Press “Enter” in the Python console. Don’t move the mouse until the interaction with the MPPD model has ended and the *in vitro* simulation has started.

6. “Simulation complete” will be printed when the simulation is finished.

1.4 Results

The results will be saved in the same folder as the other CoDo files, and will be named “Codo_results_Year-Month-Day_hour_minute” (where the date and time is the one of the simulation).