**Tox21 Enricher Quick-Start Setup**

1. Clone/download the **Tox21 Enricher repository** at <https://github.com/hurlab/tox21enricher> to your machine (i.e., base project directory will be at /home/hurlab/tox21enricher)
2. Install **Anaconda3** following the directions here: <https://conda.io/projects/conda/en/latest/user-guide/install/index.html>
3. Use **Conda** to install **RDKit** as described here: <https://www.rdkit.org/docs/Install.html>
4. Install the **RDKit PostgreSQL cartridge** as described here: <https://www.rdkit.org/docs/Install.html>
5. Connect to PostgreSQL and create a database called “**tox21enricher**”
6. Restore a **backup of the Tox21 Enricher database** to the newly-created **tox21enricher** database
7. Install **OpenJDK Java 11**
8. Install **R** and **RStudio**
9. Run the RScript at <project\_base\_dir>/installPackages.R or manually install the packages listed in that script
10. \**To later update the database, make sure Python and Perl are installed*
11. Open the configuration file at <project\_base\_dir>/config.yml and make sure the server, host, uid, pwd, and port variables are set correctly to connect to the PostgreSQL server. Make sure the appdir variable is set to the <project\_base\_dir>
12. To run:
    1. Make sure PostgreSQL is running (start with pg\_ctl -D <data\_dir> start)
    2. Go to the project base directory and run the **startPlumberAPI.sh** script
    3. Go to the project base directory and run the **startQueue.sh** script
    4. When both of the above scripts are ready to accept connections,
    5. Run the R Shiny application at <project\_base\_dir>/tox21enricher/