E2020: Soft-skills 2: Information Literacy L.MAYER

1. **Properties databases**
2. **Follow the link below, look for Chlorpyrifos, what kind of information can we find on that website?**

<https://www.reaxys.com/#/structure‐editor> :

1. **With the same link, go to “draw” and draw a Methane molecule (CH4) with apparent bonds in 2D and in 3D**

<https://www.reaxys.com/#/structure‐editor> :

1. **Follow the link below and look for physico-chemical properties information on Fonofos (pesticide) using EpiSuite values, if experimental value exist give experimental, if not, give predicted values**

<http://www.chemspider.com/>

Give information for:

* Vapor pressure:
* log KOW:
* Solubility in water:
* Half life in air:
1. **Compounds and spectra database**
2. **Look for Spectra for D-glucose, using only the number of atoms: C6H12O6; Copy/paste the spectra below and indicate the associated InChI of the molecule**

<https://sdbs.db.aist.go.jp/sdbs/cgi-bin/cre_index.cgi>

1. **Biological database**
2. **Follow the link below,**

**Let’s use BLAST to see if we can identify 20 unknown uncultured bacteriums**

<https://blast.ncbi.nlm.nih.gov/Blast.cgi>

**Link to get to the data (20 unknown sequences):**

<https://go.usa.gov/xUEX4>

*(just* ***in case computer is very slow****,* ***do not click on it otherwise, link to results:***[*https://blast.ncbi.nlm.nih.gov/Blast.cgi?CMD=Get&RID=NH1S873K015*](https://blast.ncbi.nlm.nih.gov/Blast.cgi?CMD=Get&RID=NH1S873K015) *)*

**MOLE-BLAST**

<https://blast.ncbi.nlm.nih.gov/moleblast/moleblast.cgi>

Copy/paste the 3 sequences

KU524801.1

AB759680.1

GQ158974.1

Run with 16s database

1. **Registration Database:**
2. **Find authorization status for the following compound at the EU level, using the following link**

<https://go.drugbank.com/> (Drug database)

<https://ec.europa.eu/food/plants/pesticides/eu-pesticides-database_en> (EU pesticide database)

<https://www.echemportal.org/echemportal/> (EU chemical portal)

<https://risctox.istas.net/en/> (Toxic substance database)

<https://echa.europa.eu/home> (ECHA website)

**For these compounds:**

**Dicloxacillin – Epoxiconazole – Decachlorobiphenyl**