## 5 TABLES

**Table 1.** Scientific Tools and Resources Evaluated. Here we show the variety among the 44 ITCR and CTD<sup>2</sup> scientific research tools/resources evaluated for various characteristics by manual inspection for infrastructure used to support software evaluation metrics beyond software paper citations.

Туре	Description	Count	Percentage
Plug-in/Extension	These tools are plug-in or extension software that adds functionality to other software	2	4.5
Jupyter/Python	These tools are scripts written in Python or Jypyter Notebooks	5	11.4
Database/Ontology	These tools provide users access to data or standards	5	11.4
Computing Platforms	These tools allow users to upload data and perform analysis on a cloud or server	5	11.4
Web-based Tools	These tools are hosted on a website where users can access the tool and use it	6	13.6
Desktop Applications/Command-line tools	These tools require users to download the tool to their computer or server, Desktop applications may or may not require command-line interactions, while command-line tools do	9	20.5
R packages	Software written in the R programming language	12	27.3
TOTAL	NA	44	100