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Programming in the Life Sciences #5: converting the results into HTML

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Keywords

Pra3006, Html, Javascript

Abstract

Now that we have the communication working with the Open PHACTS LDA, it is time to make a nice GUI.

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Now that we have the communication working with the Open PHACTS LDA, it is time to make a nice GUI. I will not go into details, but we can use basic JavaScript to iterate over the JSON results, and, for example, create a HTML table:

Output

Search Results

Name: Aspirin
Name: Aspirin aluminum
Name: 2-O-(2-Acetoxybenzoyl)-1,4:3,6-dianhydro-5-O-(2-chloro-6-methylisonicotinoyl)-D-glucitol
Name: 2-(2-Bromoacetoxy)benzoic acid
Name: Methylrodin

Compound Details

http://www.conceptwiki.org/concept/be0e8fa4-e4dd-4c25-9854-6f578e045587

JSON reply

[{"_about":"http://www.conceptwiki.org/concept/dd758846-1dac-4f0d-a329-06af9a7fa413","match":"A
Structurally","prefLabel":"Chemical Viewed Structurally"},"altLabel_en":["acidum acetylsalicylicum","Easp
2","Salacetin","Acetylsalicylsaeure","Globentyl","Solpyron","aspirine","o-Acetylsalicylic acid","Contrheuma

In fact, I hooked in some HTML `onClick()` functionality so that when you click one of the compound names, you get further details (under *Compound Details*), though that only outputs the ConceptWiki URI at this moment. A simple for-loop does the heavy work:

```
html = "<table>";
for (var i=0; i<response.length; i++) {
  html += "<tr>";
  html += "<td>";
  dataJSON = JSON.stringify(response[i]);
  //  dataJSON.replace(/"/g, "'");
  html += "Name: <span>" + response[i].prefLabel + "</span>";
  html += "</td>";
  html += "</tr>";
}
html += "</table>";
document.getElementById("table").innerHTML = html;
```

So, we're set to teach the students all the basics of programming: loops, variables, functions, etc.