Using the OpenSocial Platform to Develop Open, Exchangeable Web Based Biomedical Research Applications

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SDM is funded by: K22LM009135, R01LM009722, Grant from IU Biomedical Research Council, Indiana University, the Showalter Trust and the Indiana Genomics Initiative

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WHAT IS OPENSOCIAL?

- Facilitates the development of social networking applications
- Can be used across multiple social networking sites that are container sites
- Is a set of common APIs
- Was released by Google, MySpace, and other social networks in November 2007
HOW DOES THE OPENSOCIAL PLATFORM WORK?

```html
/* Profile and Preview View */

/* Gets Search Term from Form and requests MutDB results from Server */

function queryMutDB() {
  var obj = document.getElementById('term');
  if (obj) {
    return;
  }

  var term = obj.value;
  if (term) {
    return;
  }

  var canvas_data = ['term': term];
```

## WHY USE THE OPENSOCIAL PLATFORM?

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Many useful biomedical informatics tools are located across the web</td>
<td>Centralize the tools you need by developing OpenSocial applications and using them in an enabled site</td>
</tr>
<tr>
<td>Locations are fixed with biomedical informatics applications</td>
<td>OpenSocial applications built from biomedical web based tools can be used in any site that supports the OpenSocial platform.</td>
</tr>
<tr>
<td>Sharing of results of biomedical informatics applications is limited</td>
<td>OpenSocial enables developers to produce biomedical informatics applications that share results with colleagues.</td>
</tr>
</tbody>
</table>
WHAT WE PRODUCED...

www.ncbi.nlm.gov/pubmed/
http://obs.bioontology.org/oba/OBA_v1.1_rest.html
http://mutdb.org
WHERE WE ARE GOING…

• Any Biomedical research application with web services can be used to develop an OpenSocial application
• We plan to develop new bioinformatics and data analysis tools
• Feel free to check out Laboratree.org