Introduction

Crystallography: substantial part of the Biomolecular Research Endeavor

- Traditionally – Coat hanger:
  - Frame mechanistic hypotheses
  - Targets with established importance
- Rational design – hypothesis-directed
  - Ligands, mutants...
- Structural genomics
  - Discovery research
  - Induce function through homology
    - Structure more conserved than sequence

Workshop goals

- Not professional crystallographer
- Preparation for the 1st plunge
- Intelligent collaborator
- Critical user

Agenda

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Practicals</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Crystallization</td>
<td>Lysozyme</td>
</tr>
<tr>
<td>2</td>
<td>Diffraction theory &amp; Data collection</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>The Phase Problem</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Modeling, Refinement, Accuracy &amp; Validation</td>
<td>Building with computer graphics</td>
</tr>
</tbody>
</table>
Introductory Texts

- Drenth, J. (1999) (more technical)
- Rhodes, G. (1993) (less technical)

Next level

- **Biomolecular Crystallography**
  - By Bernhard Rupp
  - Garland, in press October 2009; $145
- [http://www.sb.fsu.edu/~chapman/Courses/Crystallography](http://www.sb.fsu.edu/~chapman/Courses/Crystallography)

Contact information

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