Howard Hughes Medical Institute

http://www.virginmedia.com/images/facialhair-aviator-431.jpg

The primary purpose and objective of the Howard Hughes Medical Institute shall be the promotion of human knowledge within the field of the basic sciences (primarily the field of medical research and medical education) and the effective application thereof for the benefit of mankind.” (chartered in 1953).
HHMI Research

About 90% of annual spending:

– 350 HHMI Investigators
– 50 Early Career scientists
– Janelia Farm Research Campus
HHMI Education

About 10% ($76M) for Grants and Special Projects

– Graduate (Bill Galey) – grants….$20M
– Educational Resources (Dennis Liu) – projects and grants….$3.5M
– Science Education Alliance (Tuajuanda Jordan) – projects….$1.3M
– Precollege and Undergraduate (David Asai) – grants….$50M
Science Education at HHMI

- develop future scientific leaders
- promote science literacy
Precollege and UnderGrad

- Precollege grants to biomedical institutions
- Undergrad grants to 4-year colleges
- Undergrad grants to research universities
- HHMI Professors
- EXROP

approx. $50M per year
PUG: 162 grantees in 2010

Precollege biomeds
Undergrad colleges
Undergrad universities
Professors
## HHMI at Purdue

<table>
<thead>
<tr>
<th>Program</th>
<th>Period</th>
<th>Contact</th>
<th>Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>International</td>
<td>8/95-8/00</td>
<td>Michael Rossmann</td>
<td>$17,500</td>
</tr>
<tr>
<td>Precollege</td>
<td>9/07-8/12</td>
<td>J. Paul Robinson</td>
<td>$749,755</td>
</tr>
<tr>
<td>Undergraduate (Exrop)</td>
<td>2003-2006</td>
<td>4 students, one/year</td>
<td>$15,500</td>
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<tr>
<td>Undergraduate</td>
<td>6/89-8/94</td>
<td>Louis Sherman</td>
<td>$1,000,000</td>
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<tr>
<td>Undergraduate</td>
<td>9/98-8/03</td>
<td>Louis Sherman</td>
<td>$1,600,000</td>
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<tr>
<td>Undergraduate</td>
<td>9/02-8/08</td>
<td>Dennis Minchella</td>
<td>$2,000,000</td>
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<tr>
<td>Undergraduate</td>
<td>9/10-8/15</td>
<td>Dennis Minchella</td>
<td>$1,500,000</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>$6,882,755</strong></td>
</tr>
</tbody>
</table>
HHMI at Purdue Precollege

- Awards to biomedical research institutions
- Innovative science ed in preK-12
- By invitation only
- zipTrips – School of Vet. Medicine, Purdue Agriculture, DLRC
- No competition currently open.
Initiatives for Universities

- 4-year grants
- Support science education at UG and pre-K-12
- Purdue is on the list of 197 invited institutions
- No currently open

- [http://www.hhmi.org/grants/institutions/universities.html](http://www.hhmi.org/grants/institutions/universities.html)
HHMI Investigators

• HHMI provides long-term, flexible funding
• Funds the investigator – not project
• Potential to make significant contributions to science
• About 350, including 13 Nobel laureates and 141 members of the National Academy of Sciences
HHMI at Purdue
Investigators

Jue Chen, Ph.D., Assoc. Prof. Biological Sciences

Alternating Access of the Maltose Transporter
Science Education Alliance

• Seeks to enhance scientific education and increase the number of US scientists by serving as a national resource for developing and distributing new materials and methods.
Science Education Alliance at Purdue

- Jenna Rickus and Kari Clase
- CNIT 227