**Occupant:** Weill Cornell Medical College  
**Type:** Laboratory/Research Facility  
**Size:** 455,000 ft²  
**Number of Stories:** Below Grade – 3  
Above Grade – 18 + Penthouse  
**Cost:** $650 Million  
**Dates of Construction:** 2010-2014  
**Delivery Method:** Design-Bid-Build  

### Project Team

<table>
<thead>
<tr>
<th>Role</th>
<th>Firm/Consultant</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Architect:</strong></td>
<td>Ennead Architects</td>
</tr>
<tr>
<td><strong>Structural Engineer:</strong></td>
<td>Severud Associates</td>
</tr>
<tr>
<td><strong>Mechanical Engineer:</strong></td>
<td>Jaros Baum &amp; Bolles</td>
</tr>
<tr>
<td><strong>Laboratory Consultant:</strong></td>
<td>Jacobs Consultancy/GPR</td>
</tr>
<tr>
<td><strong>Construction Manager:</strong></td>
<td>Tishman Construction</td>
</tr>
</tbody>
</table>

### Architecture:
- Undulating glass sunshade curtain wall
- 13 floors of laboratory space
- 2 floor underground animal facility
- 2nd floor terrace connects to neighboring Lasdon House
- Doubles Weill Cornell Medical College’s existing research space
- LEED Silver Rating upon completion

### Structure:
- Foundation: Spread footing with rock anchors to resist water table uplift
- Floor System: Two way flat plate concrete slabs
- Lateral System: Reinforced Concrete Shear walls
- Concrete columns in various sizes with typical bays of 21’-0” (East-West) x 27’-7”, 25’-0”, and 16’-3” (North-South)
- Concrete beams in various sizes located as needed

### MEP Systems:
- (13) Variable and control volume air handling units totaling 675,000 cfm; (4) Cooling towers on the roof totaling 1,228,000 cfm
- 265/460V electrical service brought to the building via four 4000A switchboards
- Fluorescent lighting throughout the building mostly at 277V

Jonathan Coan  
[http://www.engr.psu.edu/ae/thesis/portfolios/2012/JRC5201/index.html](http://www.engr.psu.edu/ae/thesis/portfolios/2012/JRC5201/index.html)  
Structural Option