Peptide Synthesis Core Facility
Northwestern University User Rates
September 1, 2015

<table>
<thead>
<tr>
<th>Equipment/Service</th>
<th>NU Rate</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Peptide Synthesis</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Automated Peptide Synthesis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Set Up Fee*</td>
<td>$250.00</td>
<td>per synthesis</td>
</tr>
<tr>
<td>Includes synthesis set up, peptide cleavage, &amp; MS analysis of crude peptide</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amino Acids</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1 mmol</td>
<td>$8.00</td>
<td>per amino acid</td>
</tr>
<tr>
<td>0.25 mmol</td>
<td>$11.00</td>
<td>per amino acid</td>
</tr>
<tr>
<td>0.5 mmol</td>
<td>$13.00</td>
<td>per amino acid</td>
</tr>
<tr>
<td>1 mmol</td>
<td>$16.00</td>
<td>per amino acid</td>
</tr>
<tr>
<td>2 mmol</td>
<td>$20.00</td>
<td>per amino acid</td>
</tr>
<tr>
<td>Special Reagents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-standard residues, dyes, resins, etc.</td>
<td>variable</td>
<td>call for price</td>
</tr>
<tr>
<td>Manual Peptide Synthesis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full Service</td>
<td>variable</td>
<td>call for price</td>
</tr>
<tr>
<td>Self Service Set Up Fee*</td>
<td>$150.00</td>
<td>per synthesis</td>
</tr>
<tr>
<td><strong>HPLC</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Preparatory Full Service**</td>
<td>$85.00</td>
<td>per injection</td>
</tr>
<tr>
<td>Preparatory Self Service</td>
<td>$55.00</td>
<td>per injection</td>
</tr>
<tr>
<td>Large Scale Preparatory Full Service***</td>
<td>$215.00</td>
<td>per injection</td>
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<tr>
<td>Analytical Full Service</td>
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<td>per injection</td>
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<td>Analytical Self Service</td>
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<td>per injection</td>
</tr>
<tr>
<td>Lyophilization (if required)</td>
<td>$32.00</td>
<td>per port</td>
</tr>
<tr>
<td>Dry Ice (if required)</td>
<td>$1.10</td>
<td>per pound</td>
</tr>
</tbody>
</table>

| **Mass Spectrometry (MS)**        |         |      |
| Molecular Weight Determination (MWD) <5 samples | $12.00 | per sample |
| MWD ≥5 samples                    | $10.00  | per sample |
| MWD with sample preparation       | $22.00  | per sample |
| Tandem MS (MS/MS)                | $55.00  | per sample |
| LCMS <5 samples                   | $45.00  | per sample |
| LCMS ≥5 samples                   | $25.00  | per sample |
| Proteomics Study                  | $130.00 | per hour |

| **Technical Assistance**          |         |      |
| Consultation, training, data analysis, lyophilizer set up, etc. | $100.00 | per hour |

* Additional consumables charges will apply depending on the number of amino acids required in the process.

** With each injection 40-200mg of crude product is purified, depending on the solubility of each peptide. Recovery is usually between 5-50mg and is often >90% pure by reverse-phase HPLC.

*** Large scale prep by request only, please inquire for details.

Researchers outside Northwestern University may apply for access and services provided through the Peptide Synthesis Core Facility. For more information on external rates and access, contact Mark Karver at 312-503-6725 or mark.karver@northwestern.edu.