Biopharmaceutical R&D Support

**Structure**
- Amino acid sequence
- N- and O-Glycosylation
- Molecular weight
- Aggregation

**Function**
- Binding affinity
- Biosimilar comparisons
- Potential allergenicity
- Localisation

**Production**
- Optimisation of expression
- Lab to pilot-scale fermentation
- Purification protocols
- Sequence analysis

Integrated and technologies to drive forward your R&D
Standard analysis packages, project-specific studies, funded partnerships
# Biopharmaceutical Characterisation

<table>
<thead>
<tr>
<th>Standard Characterisation Package</th>
<th>Additional Characterisation Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein concentration</td>
<td>Solution molecular weight and aggregation status by SEC-MALLS and/or AUC</td>
</tr>
<tr>
<td>UV spectrum</td>
<td>Intact protein molecular weight by mass spectrometry</td>
</tr>
<tr>
<td>SDS-Page profile</td>
<td>Protein purity by HPLC</td>
</tr>
<tr>
<td>Native gel electrophoresis profile</td>
<td>Secondary structure estimation by CD</td>
</tr>
<tr>
<td>Protein identity confirmation by mass spectrometry</td>
<td>Glycosylation by LC-MS</td>
</tr>
<tr>
<td>Report and recommendations</td>
<td>Binding affinity (e.g. SPR, ITC) Flow cytometry</td>
</tr>
<tr>
<td></td>
<td>Localisation by high end microscopy and cytometry</td>
</tr>
</tbody>
</table>

* £990 per sample (excluding VAT) with discounts for batches of similar samples

---

Contact
btf-enquiries@york.ac.uk

More information
www.york.ac.uk/biology/tf