1. **User-friendly operation characterizes the Eppendorf 5810R Centrifuge:**
   - Speed, rcf, and radius correction values can be entered by the user.
   - Temperature range from -9 to +40 °C.
   - Speed can be set from 200 rpm to maximum speed in increments of 10 rpm.
   - Selectable program memory.
   - Fast-cool function for rapid cooling of centrifuge chamber.
   - 10 acceleration and 10 braking ramps for sensitive sample material.

   - RCF Calculator
   - Manuals
   - FAQs
   - Applications
   - Practical Information for the Molecular Biologist
   - Bacterial Cultivation
   - Cell Technology
   - Centrifugation
   - Liquid Handling
   - Microarrays
   - Nucleic Acid Purification
   - PCR and qPCR
   - Vacuum Concentration

3. **Rotor code:**
All Eppendorf rotors are designated according to a simple, logical system which describes the technical specifications as a uniform series of numbers and letters e.g.:

- **Fixed-angle rotor**: FA-45-30-11
  - Aerosol-tight version
  - Max. no. tubes/adapters

- **Swing-bucket rotor**: A-4-81
  - Max. no. buckets
4. Rotors available from Eppendorf for the 5810-R Centrifuge:

http://www.eppendorfna.com/products/centri_5810r_de.asp

- Swing-bucket rotor A-4-81
- Swing-bucket rotor A-4-81-MTP
- Swing-bucket rotor A-4-62 ................. (currently owned by Genomics Facility)
- Swing-bucket rotor A-4-62-MTP
- Swing-bucket rotor A-4-44R
- Swing-bucket rotor A-2-DWP
- Drum rotor T-60-11
- Fixed-angle rotor F-34-6-38
- Fixed-angle rotors F-45-30-11 and FA-45-30-11
- Fixed-angle rotor F-45-48-PCR

Genomics Facility: We currently have the A-4-62 rotor. This rotor has two types of adaptors: (A) microtiter plates or 96-well PCR plates; and, (B) 15-ml or 50-ml tubes (with correct inserts). Other rotors could be obtained if there is sufficient interest.

Table 1: Technical specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Centrifuge 5810 R (refrigerated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (W x D x H in cm):</td>
<td>70 x 61 x 35</td>
</tr>
<tr>
<td>Weight (in kg):</td>
<td>99</td>
</tr>
<tr>
<td>Max. power requirement:</td>
<td>1.350 W</td>
</tr>
<tr>
<td>Power supply:</td>
<td>230 V, 50-60 Hz</td>
</tr>
</tbody>
</table>

Table 2: Approximate rotor braking times (in seconds) for 230 V centrifuges. Note – The given times are to be considered guidelines. Level 9 means "strongest braking" and level 0 means "free deceleration", whereby considerable fluctuations can occur with this uncontrolled deceleration depending upon the condition of the device and the load.

<table>
<thead>
<tr>
<th>Rotor</th>
<th>Level 0</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
<th>Level 6</th>
<th>Level 7</th>
<th>Level 8</th>
<th>Level 9</th>
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<tbody>
<tr>
<td>A-4-81</td>
<td>532</td>
<td>189</td>
<td>174</td>
<td>143</td>
<td>131</td>
<td>109</td>
<td>95</td>
<td>85</td>
<td>59</td>
<td>31</td>
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<tr>
<td>A-4-81-MTP/Flex</td>
<td>643</td>
<td>191</td>
<td>174</td>
<td>142</td>
<td>131</td>
<td>110</td>
<td>94</td>
<td>83</td>
<td>58</td>
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<tr>
<td>A-4-62</td>
<td>740</td>
<td>190</td>
<td>170</td>
<td>140</td>
<td>130</td>
<td>110</td>
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<tr>
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<td>190</td>
<td>170</td>
<td>140</td>
<td>130</td>
<td>110</td>
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<td>220</td>
<td>200</td>
<td>140</td>
<td>100</td>
<td>75</td>
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<td>23</td>
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<tr>
<td>A-2-DWP</td>
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<td>130</td>
<td>118</td>
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<td>75</td>
<td>51</td>
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<td>T-60-11</td>
<td>800</td>
<td>280</td>
<td>140</td>
<td>95</td>
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<td>F-34-6-38</td>
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