### Core Facility Functional Peptidomics

#### Platelet Lysate Peptide Library

<table>
<thead>
<tr>
<th>Library-ID:</th>
<th>PL 20170918</th>
<th>Date:</th>
<th>10/01/2018</th>
</tr>
</thead>
</table>

**Availability:** yes

**Material collection:**

**Material:** Commercial sample

**Collector:** DRK Ulm

**Starting Amount:** 5 L

**Collecting Details:**

A total of 5 L of platelet lysate (PL) was collected in charges of 100 ml from healthy donors in the German Red Cross Center in Ulm. The PL was immediately cooled and later frozen (-80 °C).

**Library Generation:**

The PL was acidified to pH 3 (acetic acid) centrifuged (4,200 rpm) and the supernatant was filtered (0.45 µm filter). To separate the protein fraction, the clear filtrate (ca. 10 L) was applied to an ultrafiltration step (cut-off: 30 kDa) resulting in a peptide containing solution of ca. 10 L. For separation the obtained ultrafiltrate was applied to a CEX column and peptides were eluted according to their basicity in pH pool fractions. These fractions were consecutively separated by a reversed phase chromatography column resulting in a total of 210 peptide containing fractions. From these mother fractions aliquots of 2.5 % were lyophilized.

In total the library consists of 210 mother fractions and corresponding aliquots.

**Number of Fractions:** 210

**Fraction content:** lyophilized aliquots of 2.5 % of the mother fractions, each containing 0.1 - 1 mg of peptide/protein powder
Library Usage:

Recommended Use:

<table>
<thead>
<tr>
<th>Name</th>
<th>Unit</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Kirchhoff</td>
<td>Virology, Ulm</td>
<td>Chemokine receptor ligands</td>
</tr>
<tr>
<td>Prof. Münch</td>
<td>Virology, Ulm</td>
<td>Viral entry inhibition</td>
</tr>
</tbody>
</table>

PL is supposed to be a valuable source of chemokines, antibacterial and (anti-) inflammatory peptides and proteins with relevance for systemic host defense.