Dimers of Intermediate Filaments

Produced for the CRC for Premium Quality Wool undergraduate program by;
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• Parallel pairs of protein chains
  – one Type I and one Type II

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\begin{align*}
\text{COOH} & \quad \text{CH}_3\text{CONH} \\
1A & \quad 1B \\
L1 & \quad L12 \\
L2 & \quad \text{COOH}
\end{align*}
\]
Dimers

- Two right-hand $\alpha$-helices wind around each other to form left hand coil-coil

Coiled coil of interlocking $\alpha$-helices

- Stability due to cohesion between apolar residues