



CRC

for

Premium

Quality

Wool

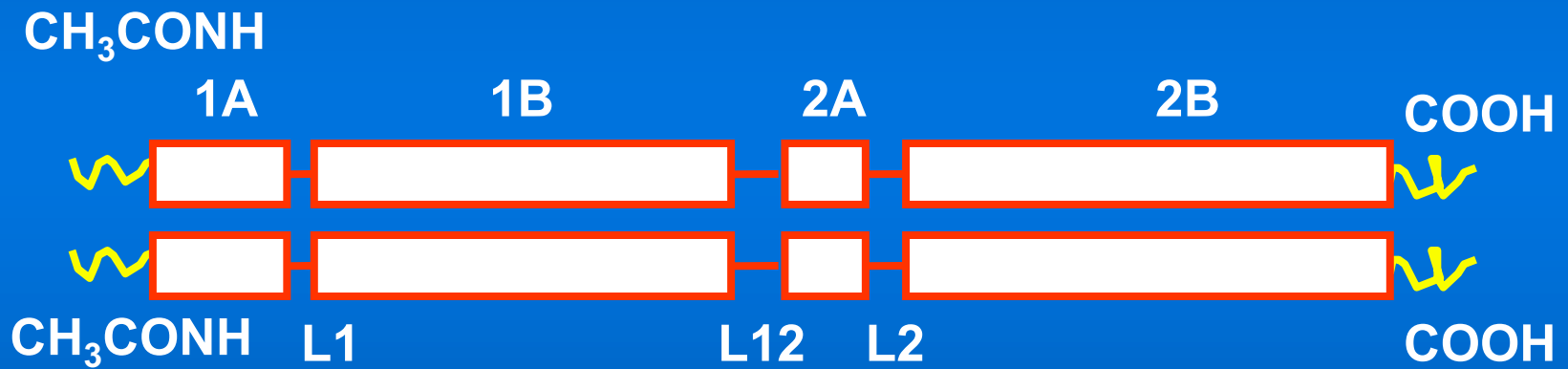
# Dimers of Intermediate Filaments

Produced for the CRC for Premium Quality Wool undergraduate program by;  
Kevin Ley, CSIRO Textile & Fibre Technology.



# Dimers

- Parallel pairs of protein chains
  - one Type I and one Type II



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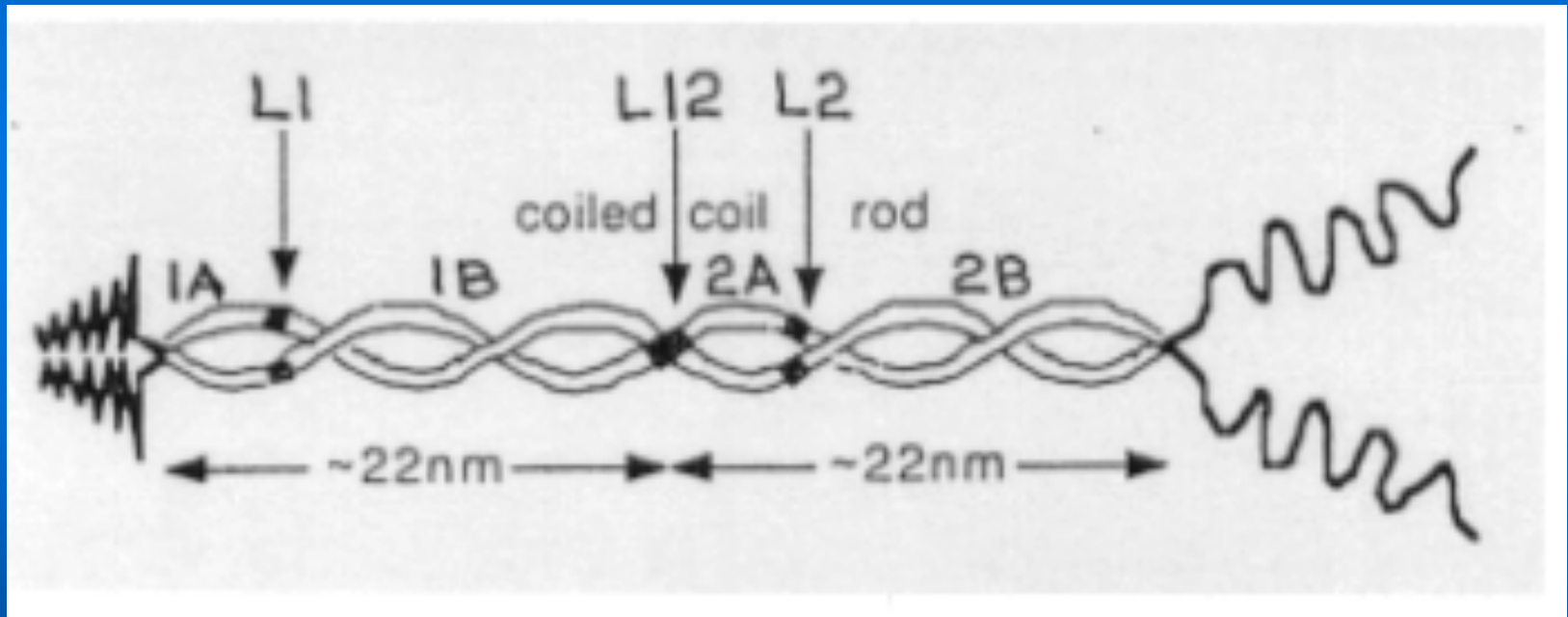
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# Dimers

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



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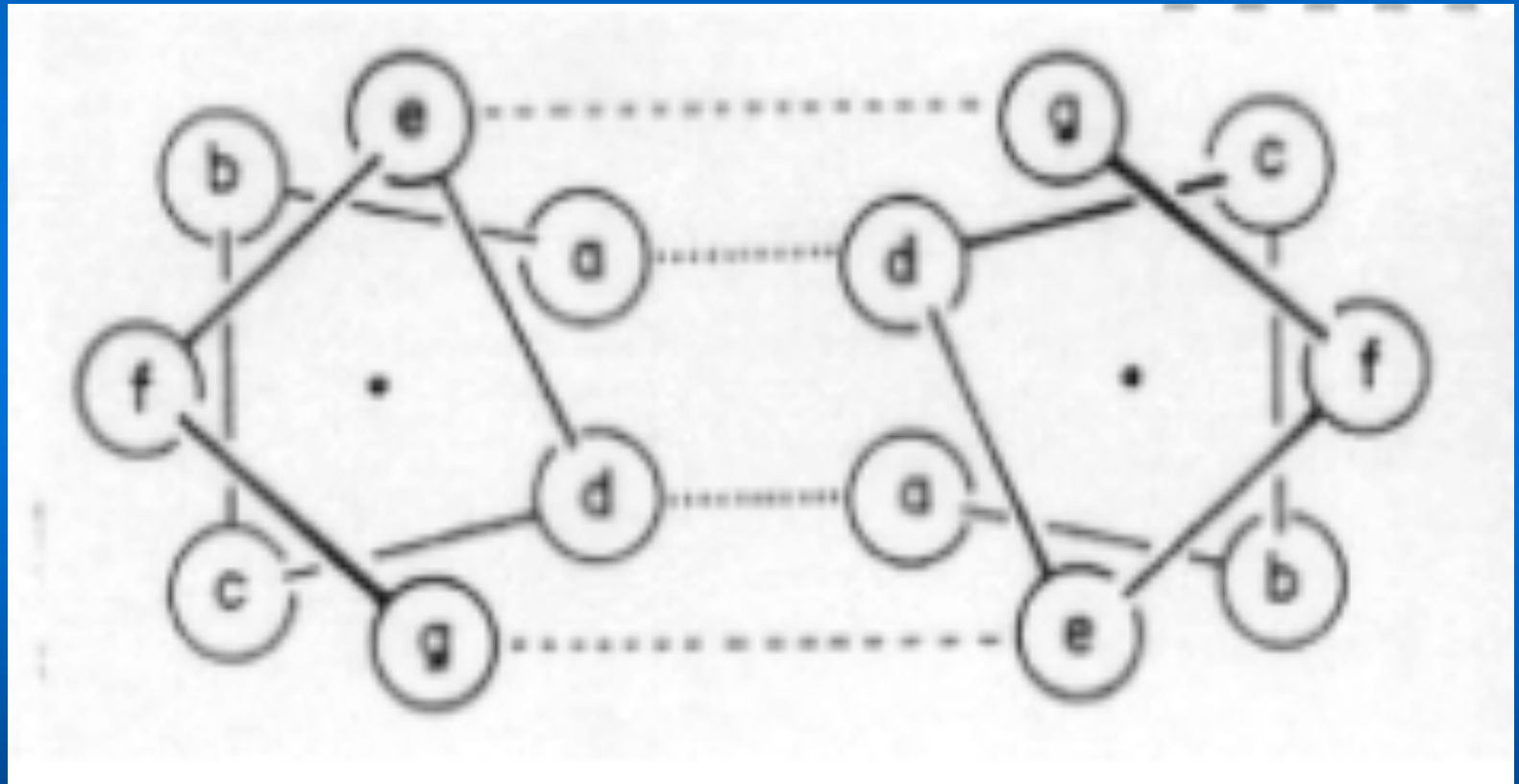
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Source: Amos, L.A. and Amos, W.B. (1991)



# Coiled coil of interlocking $\alpha$ -helices

- Stability due to cohesion between apolar residues



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Source: Cohen, C. and Parry, D. A. D. (1990)