CRC for Premium Quality Wool

Transport of Glucose in the Follicle

Produced for the CRC for Premium Quality Wool undergraduate program by;
Rachel Smith, University of Western Australia.

Transport of glucose into cells

- glucose
  - facilitated by glucose transport proteins (Gluts)
  - six GLUT isoforms described
  - GLUT1 possibly major isoform in skin
    - human epidermis & keratinocytes
    - human & rat skin
    - sheep placenta

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Possible roles of GLUT1 in ovine skin and wool follicles

- uptake of glucose to be stored as glycogen
- uptake of circulating glucose for direct production of energy
- glucose transfer from glycogen store to point of end use

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