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Melanocyte Distribution

Produced for the CRC for Premium Quality Wool undergraduate program by;
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Melanocyte distribution in skin

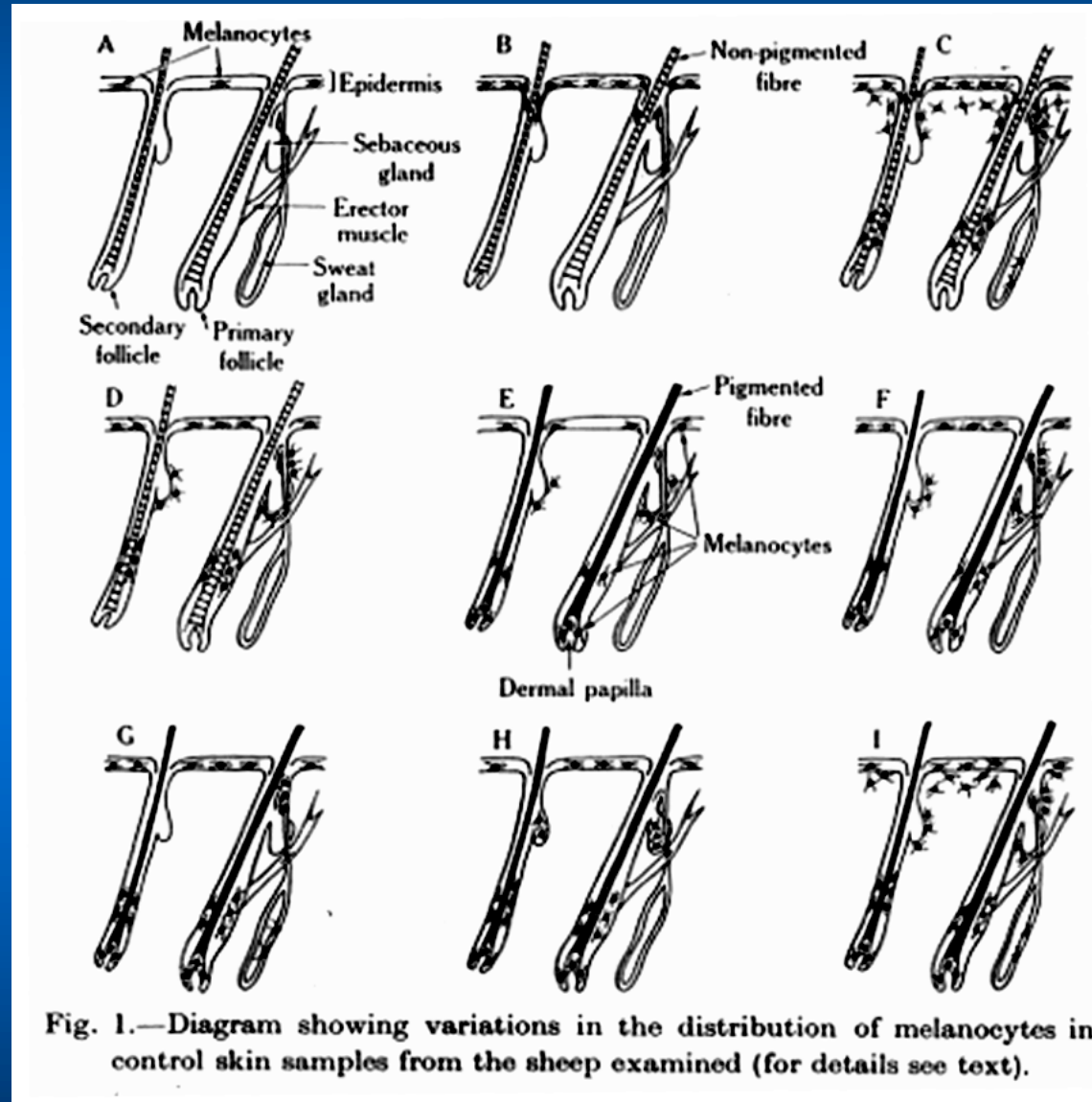


Fig. 1.—Diagram showing variations in the distribution of melanocytes in control skin samples from the sheep examined (for details see text).

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Spotting gene in sheep

Locus/allele	Symbol	Action of gene product
SPOTTING	S	Unknown. Melanoblast survival or migration (?)
wild type	S⁺	Solid colour tan or white
spotted	S^s	Symmetrical white spots and blaze due to lack of melanocytes

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Dark leg spot gene

Locus/allele	Symbol	Action of gene product
LEG SPOTS	LS	Unknown. Melanoblast survival or proliferation (?)
wild type	LS⁺	Dark fibres on leg, dark isolated fibres in fleece
spotted	LS^s	Lack of dark fibres on legs (most Merinos)

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Piebald gene in sheep

Locus/allele	Symbol	Action of gene product
AUSTRALIAN PIEBALD	AsP	Unknown. Melanoblast proliferation or migration(?)
wild type	AsP ⁺	Uniformly white
piebald	AsP ^p	Random dark spots on white fleece

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