SISTEMA INTEGUMENTARIO

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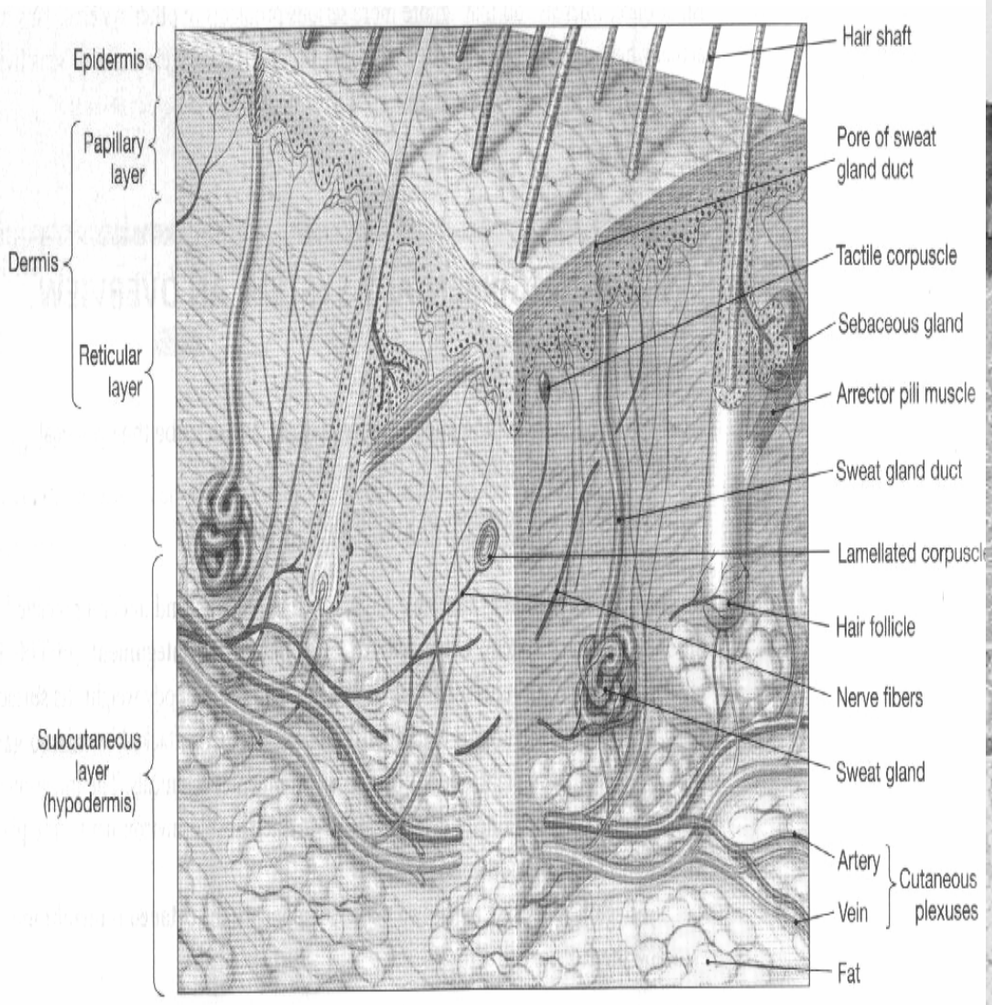
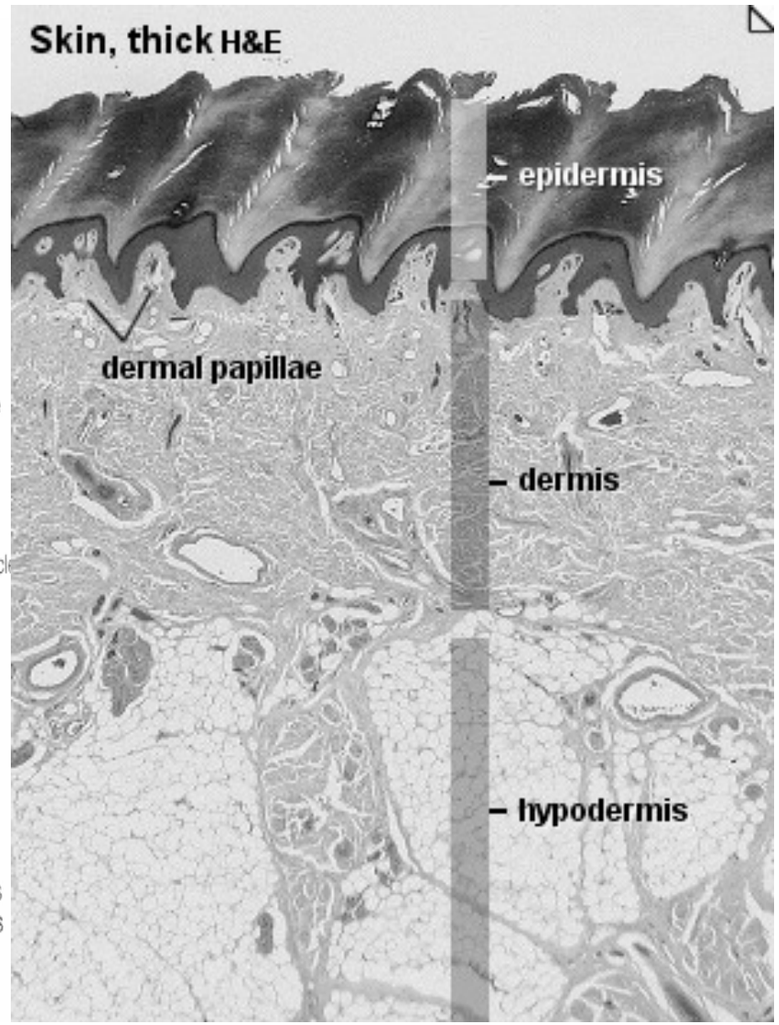
NURS 1231

Introducción

- 16% del peso corporal
- Expuesta a...
- Primera línea de defensa
- Componentes:
  - Membrana cutánea
  - Estructuras accesorias

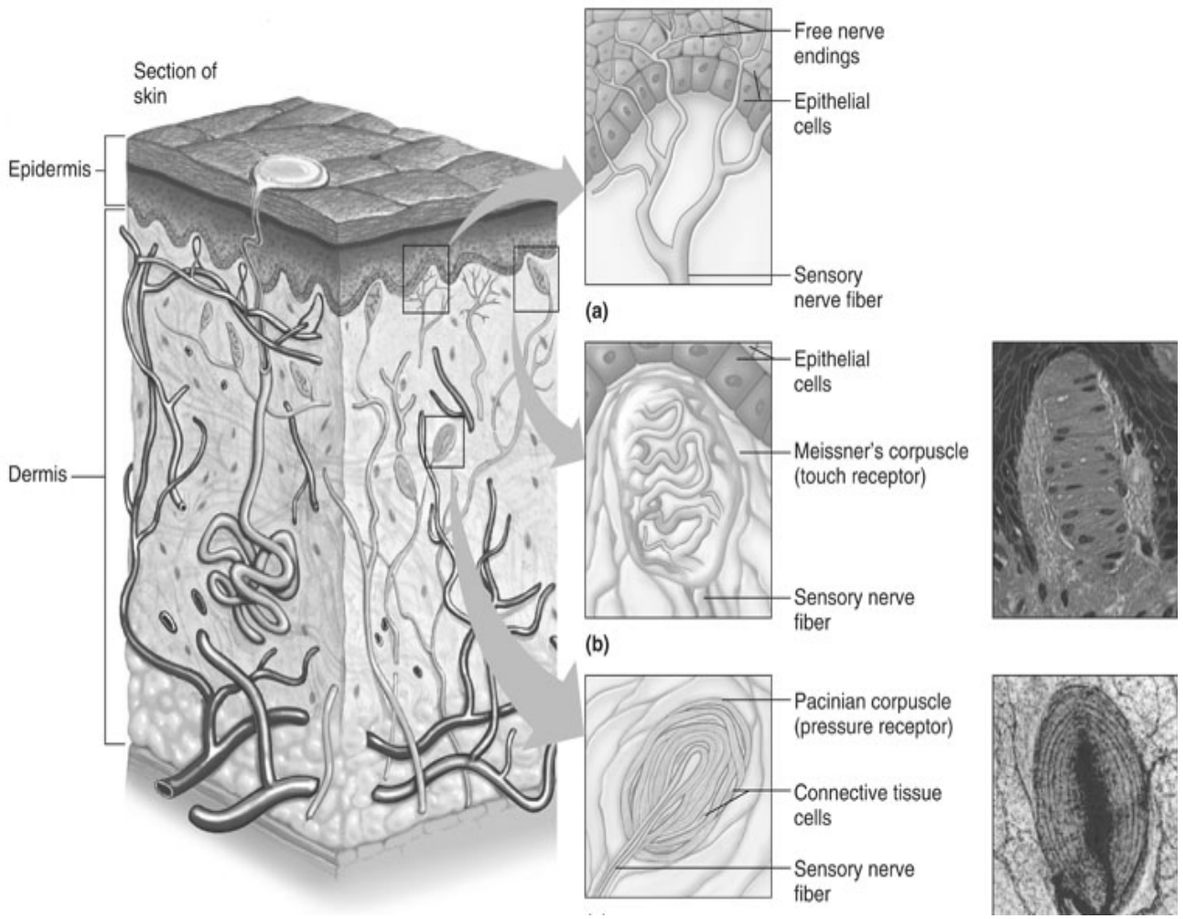
COMPONENTES DE LA PIEL





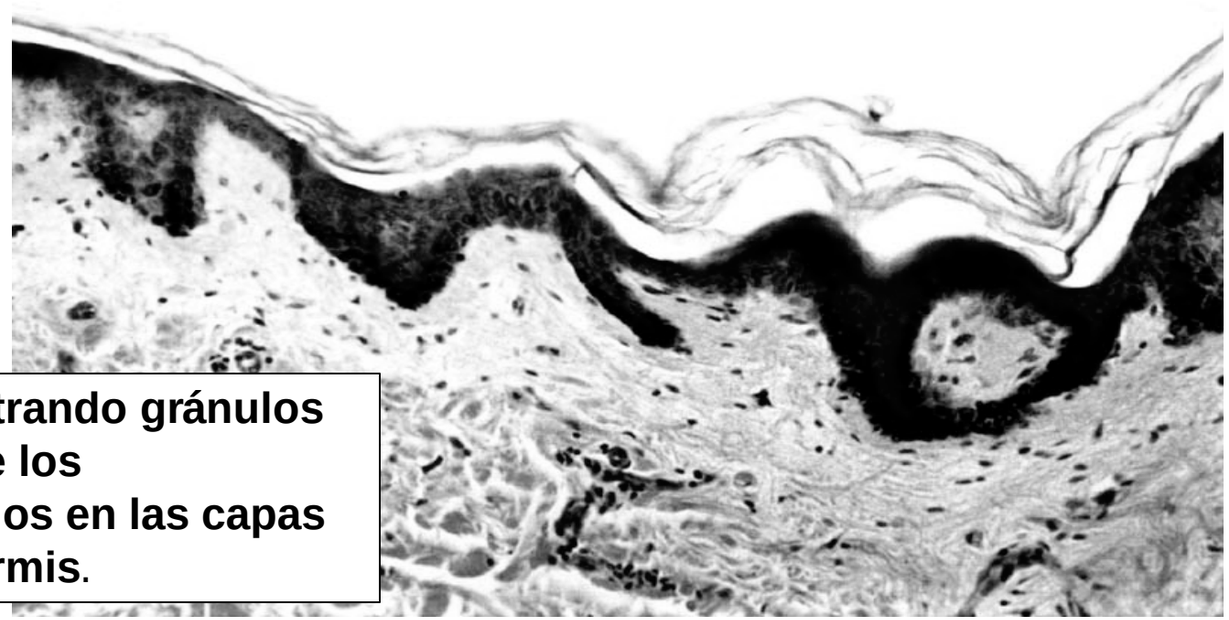
FUNCIONES GENERALES DE LA PIEL

- Protección
- Excreción
- Regular la temperatura
- Síntesis Vit. D
- Absorción
  -medicamentos,et
- Detectar
  - Tacto
  - Presión
  - Dolor
  - Temperatura



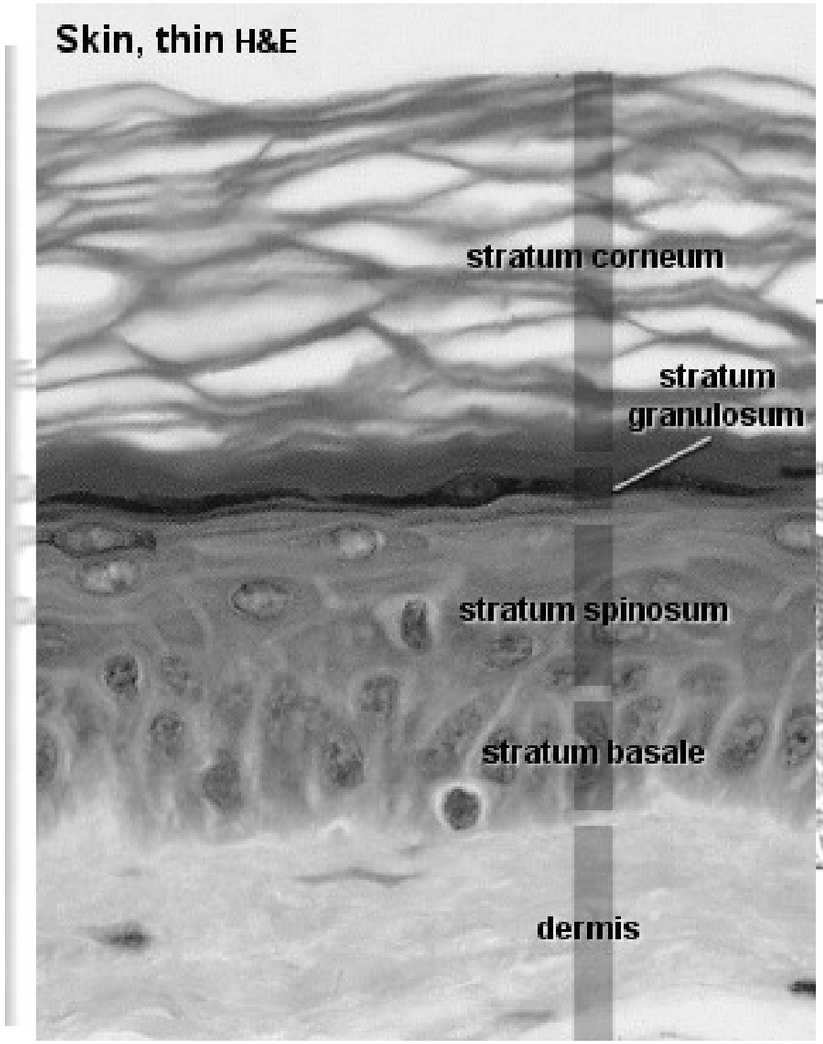
EPIDERMIS

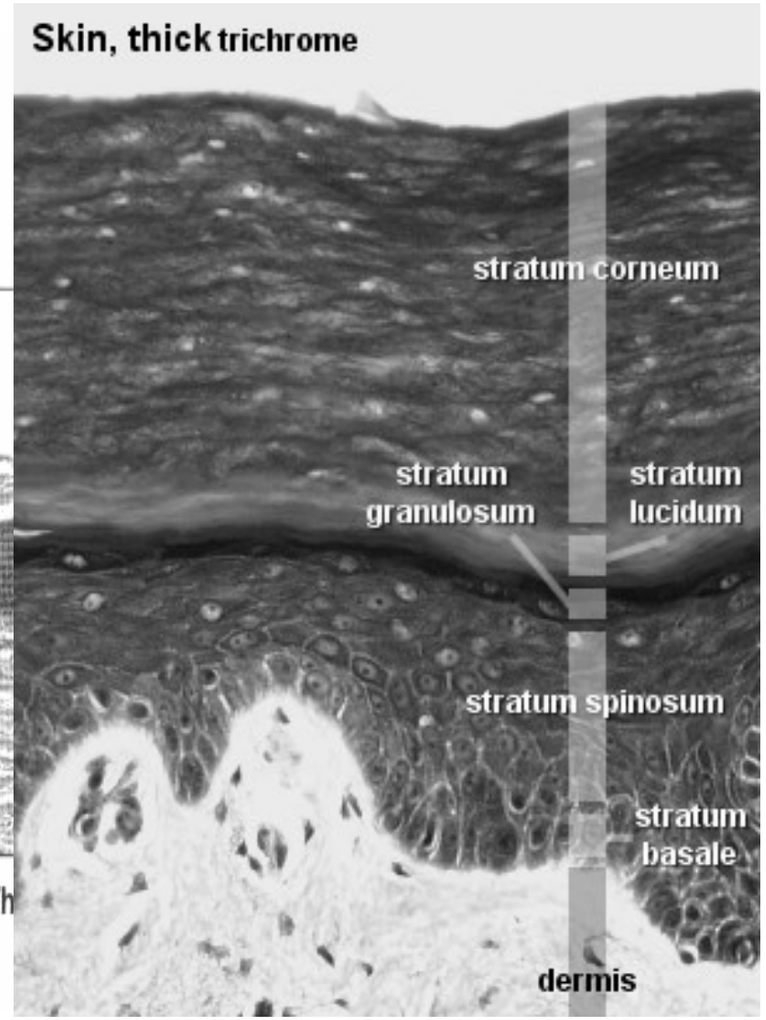
- Epitelio escamoso estratificado
- Avascular
- Células epiteliales
  - Keratinocitos



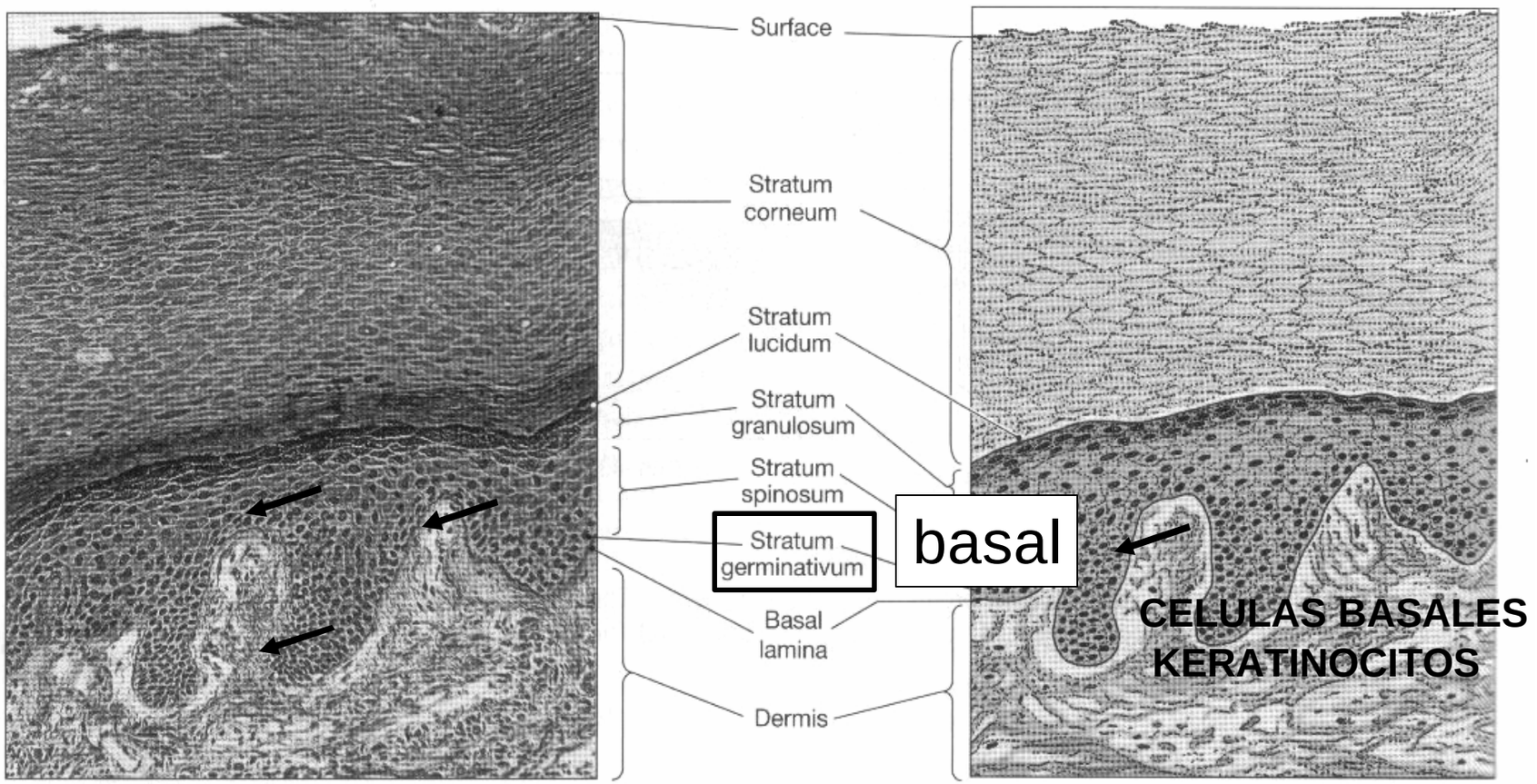
Piel fina, 100x, demostrando gránulos de pigmento dentro de los keratinocitos localizados en las capas profundas de la epidermis.

PIEL GRUESA Y FINA

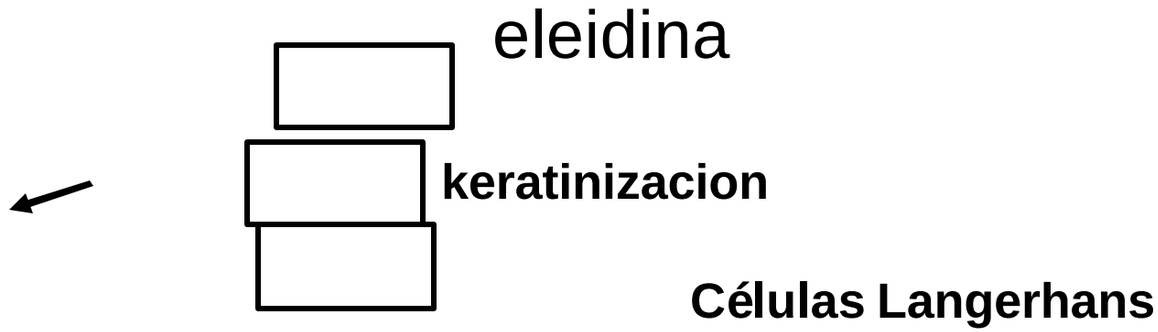




CAPAS DE LA EPIDERMIS

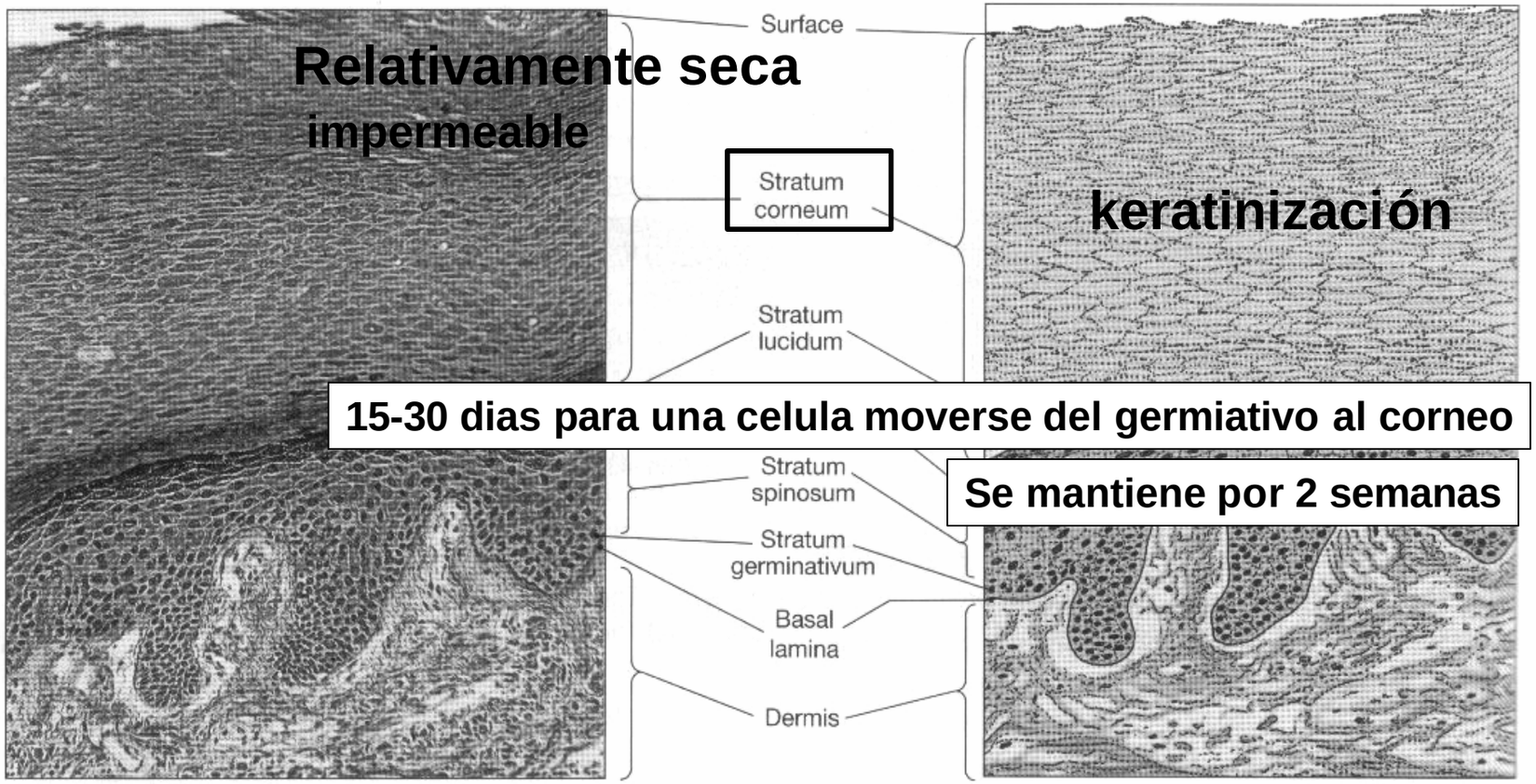


●**FIGURE 5–4**
The Structure of the Epidermis. A portion of the epidermis in thick skin, showing the major stratified layers of epidermal cells. Langerhans cells cannot be distinguished in standard histological preparations. (LM × 210)


eleidina
keratinizacion
Células Langerhans

células poligonales irregulares

Separadas por espacios translucidos



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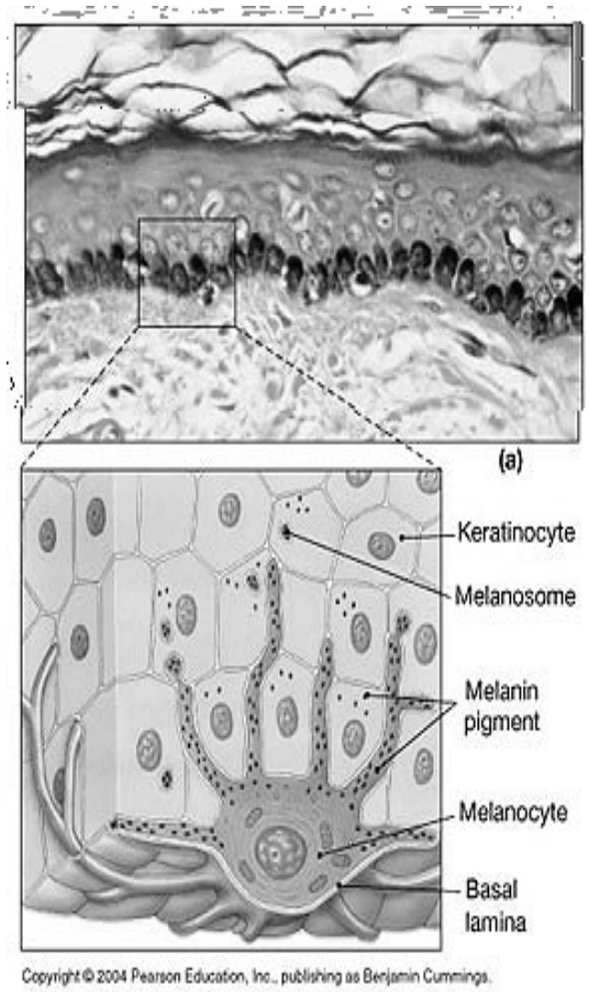
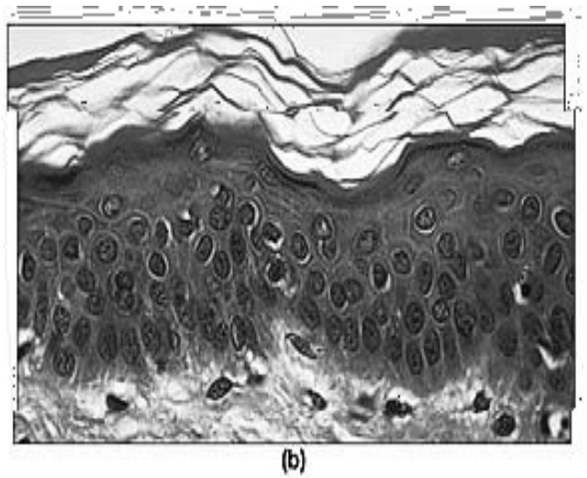
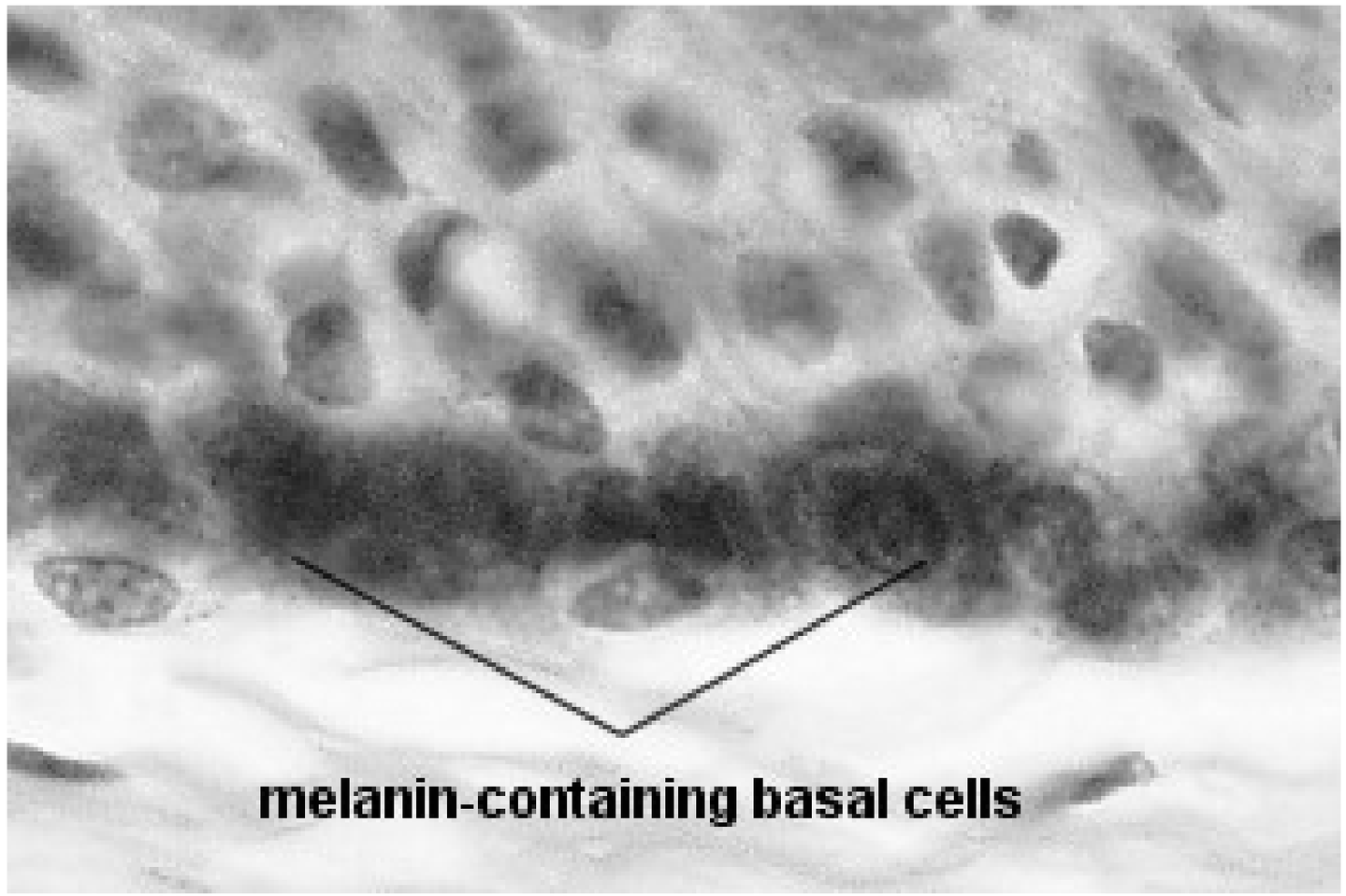
PIGMENTACION EPIDERMAL

- CAROTENO
  - Se acumula en las células epidermales

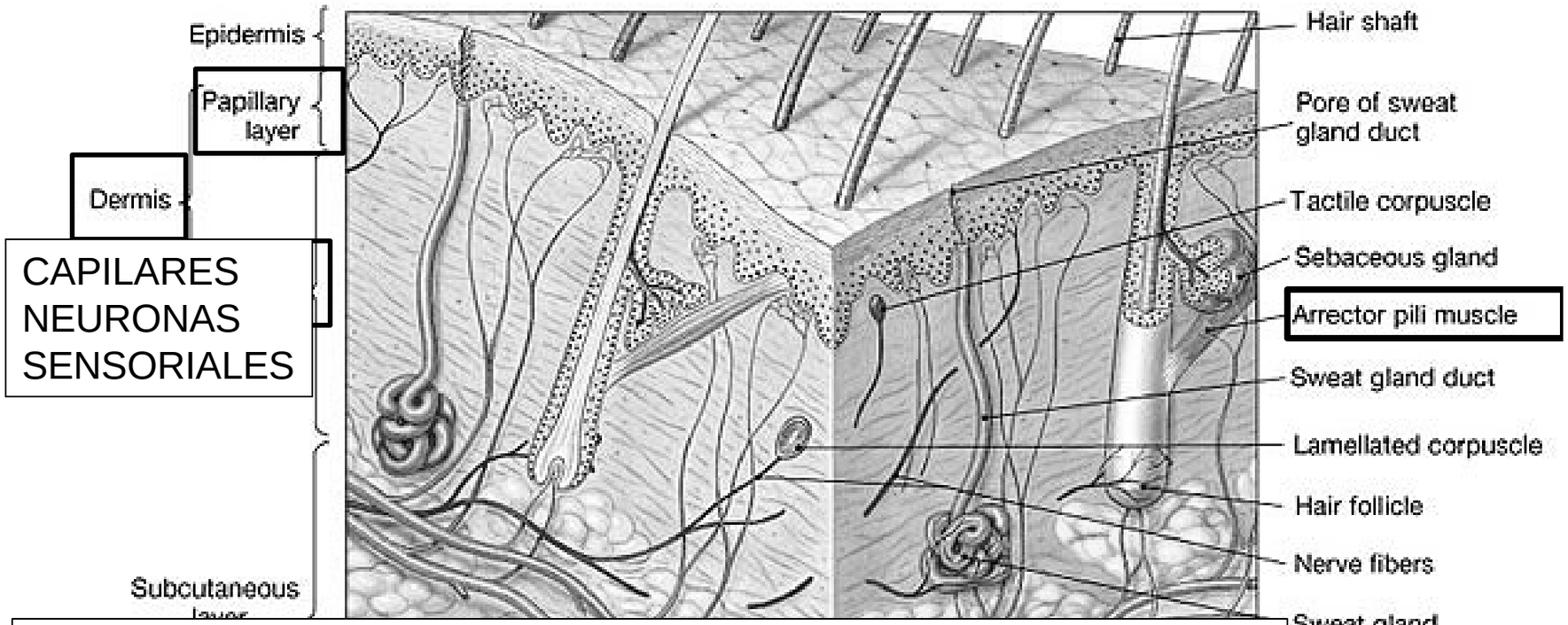




- **MELANINA**
  - **ESTRATO GERMINATIVO**


melanin-containing basal cells

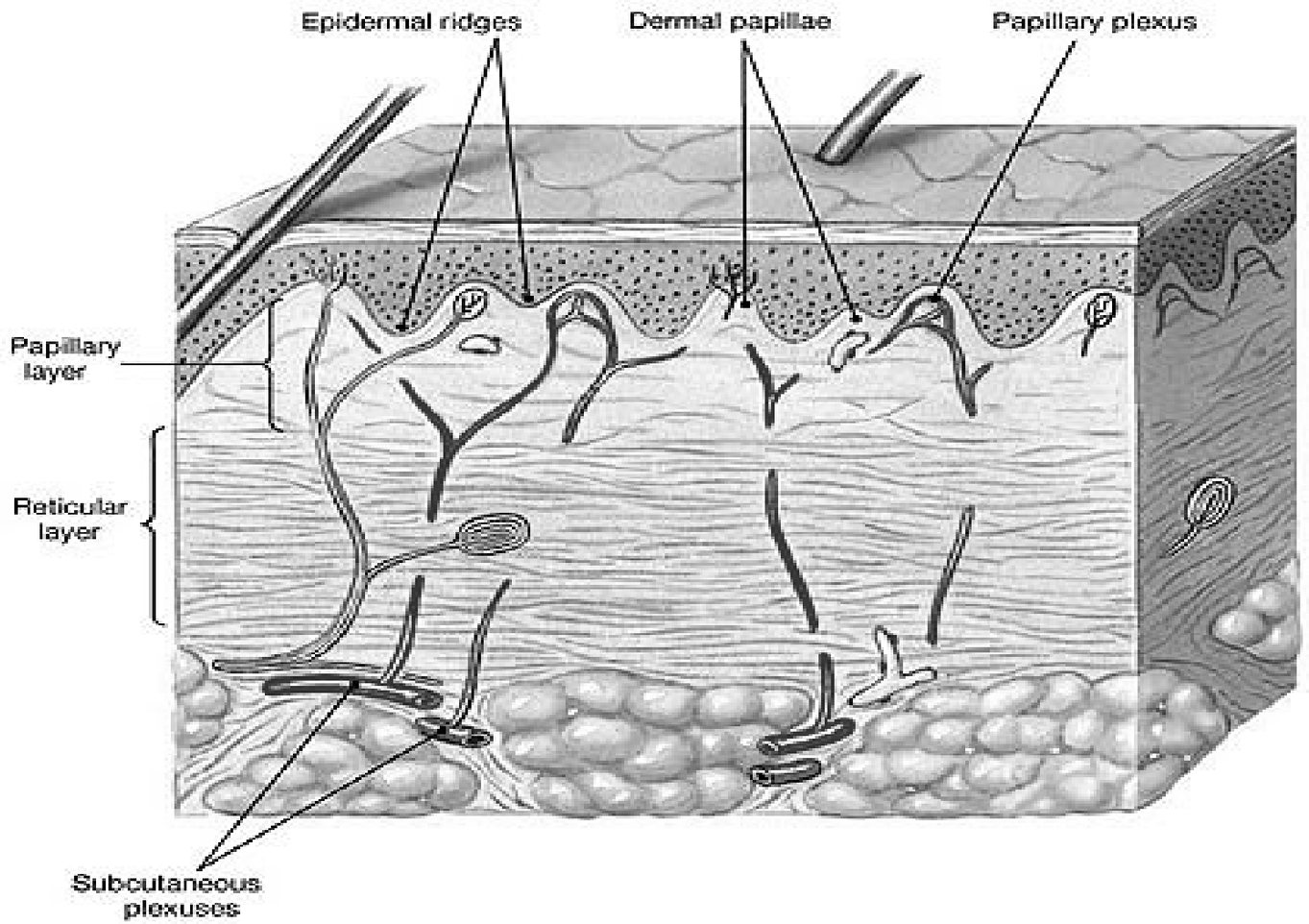
DERMIS



CAPILARES
NEURONAS SENSORIALES

TEJIDO CONECTIVO DENSO IRREGULAR
COLAGENO
FIBROBLASTOS, MASTOCITOS, MACROFAGOS,LINFOCITOS Y MELANOCITOS
ORG. ACCESORIOS (FOLICULOS, GLANDULAS SUDORIPARAS
FIBRAS NERVIOSAS,VASOS SANG. Y LINFATICOS

CIRCULACION DERMAL



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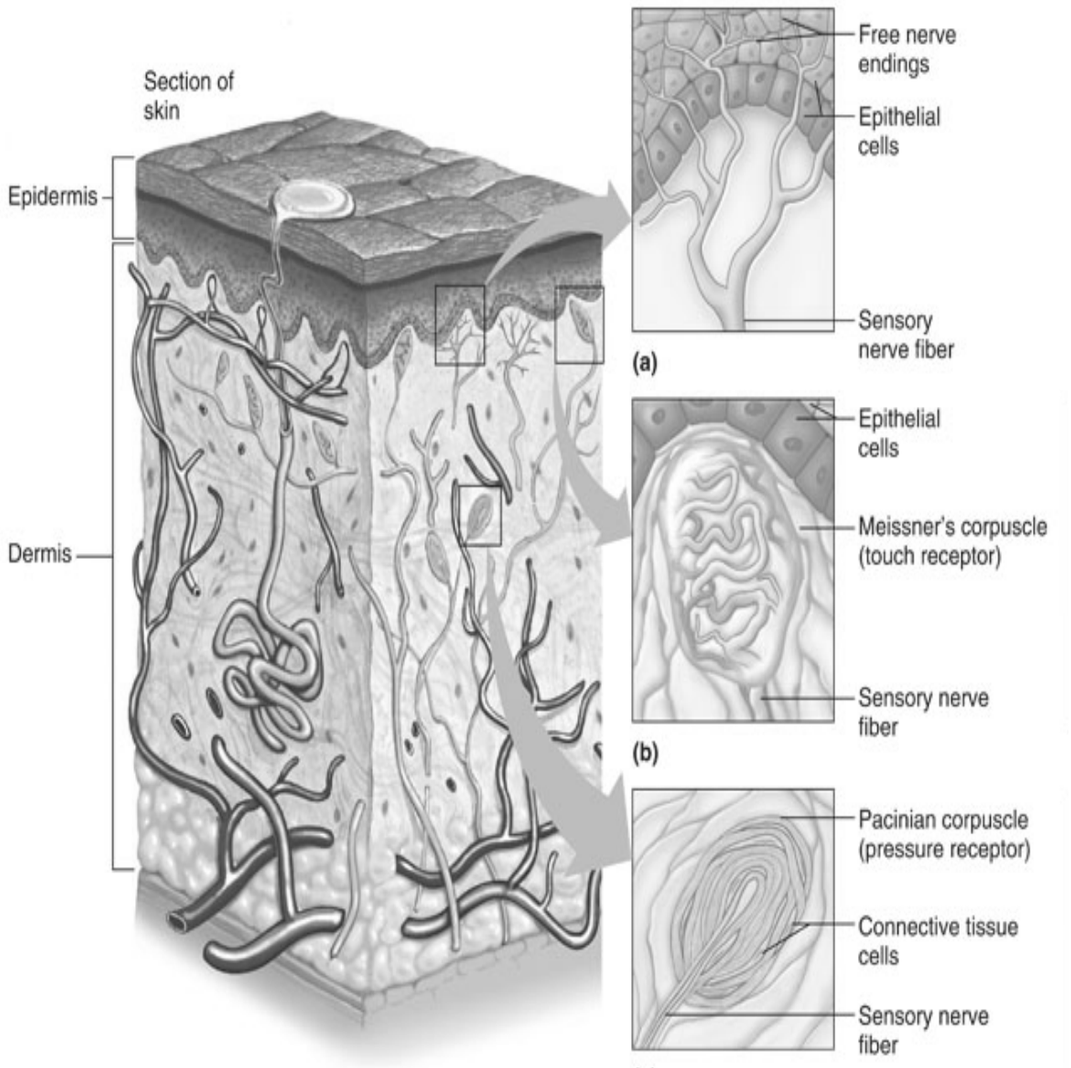
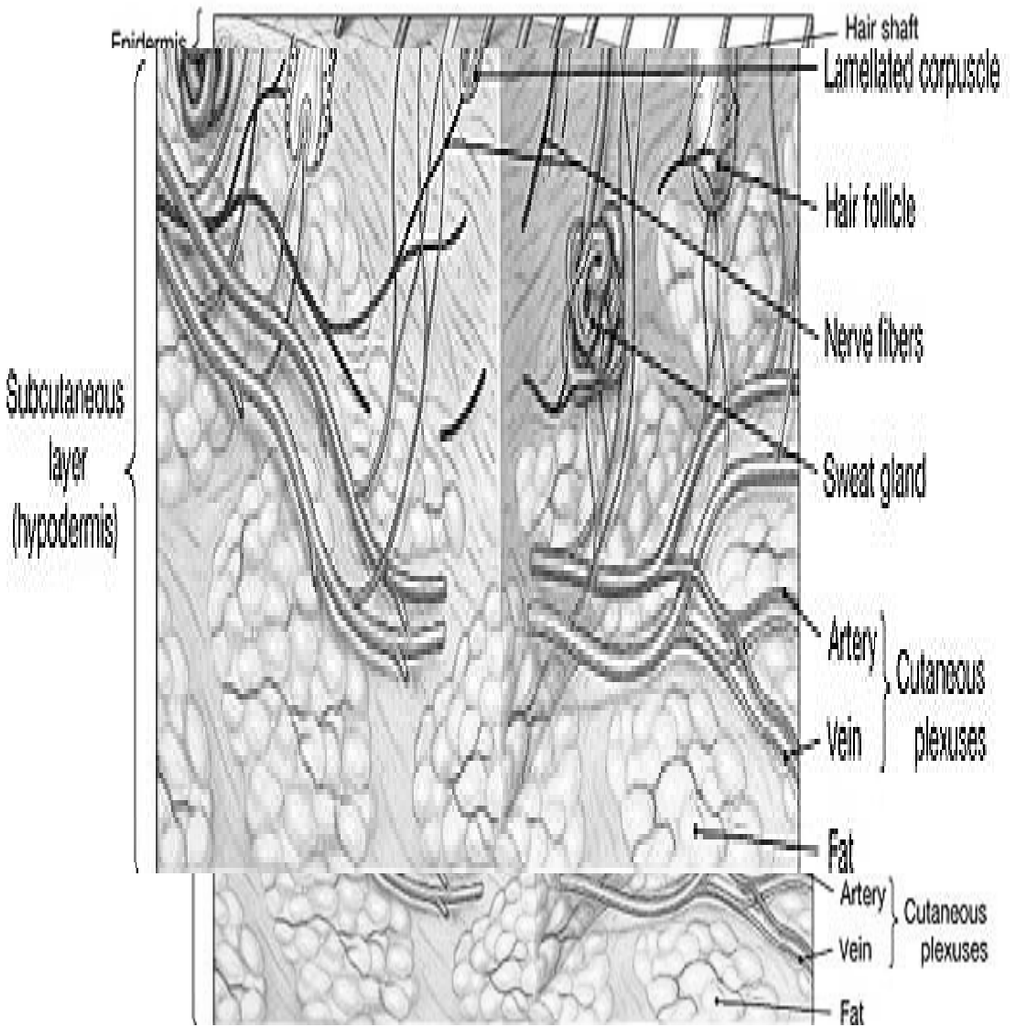
INERVACION DE LA PIEL

- FIBRAS NERVIOSAS QUE CONTROLAN:
  - Flujo sanguíneo
  - Secreción glandular
  - Monitoreo de receptores sensoriales



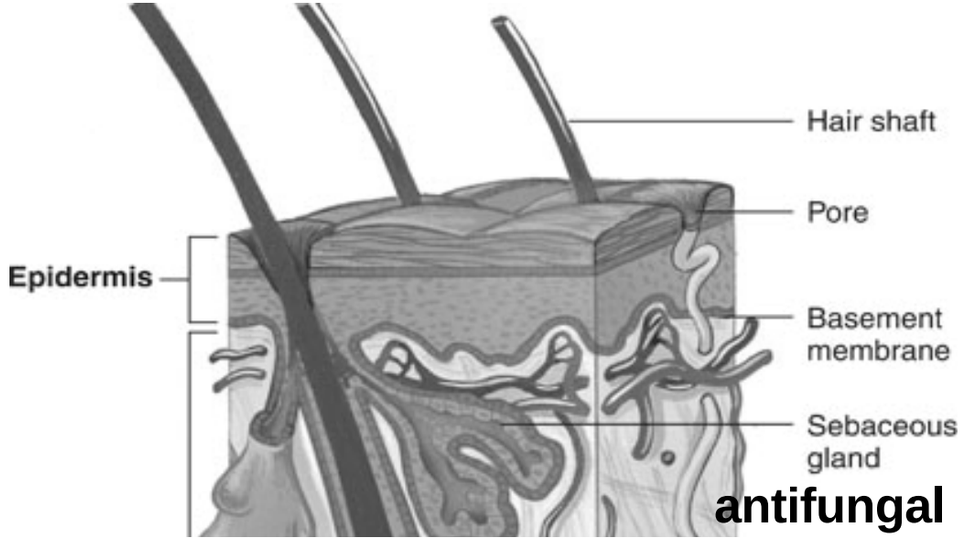
CAPA SUBCUTANEA
HIPODERMIS

- NO es parte de la piel
- Tejido conectivo aerolar y adiposo
- Elástico
- Regiones superficiales = arterias y venas

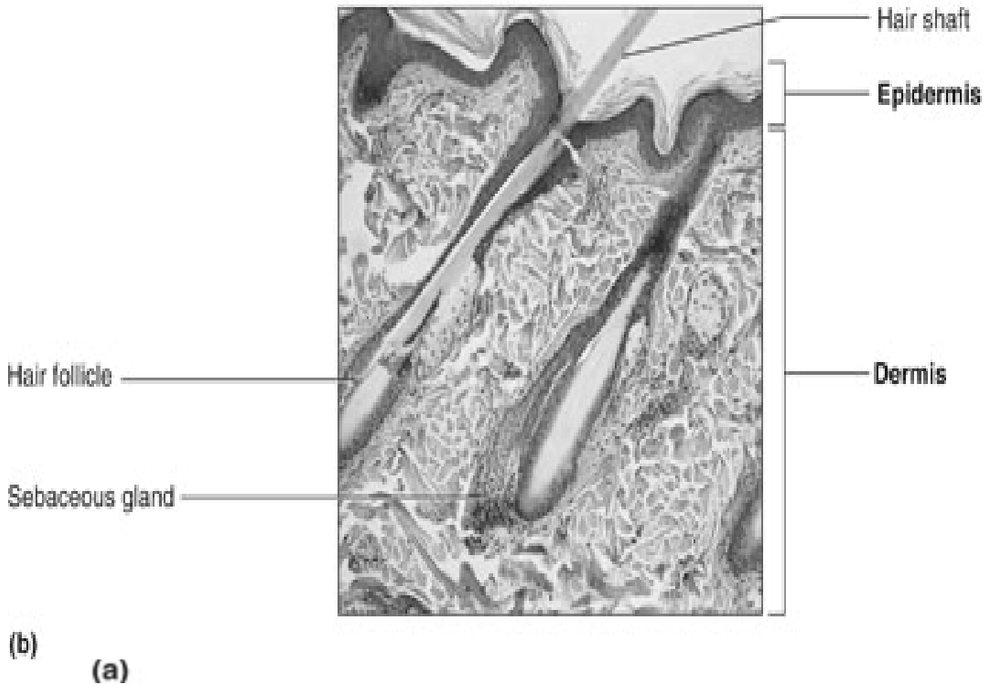


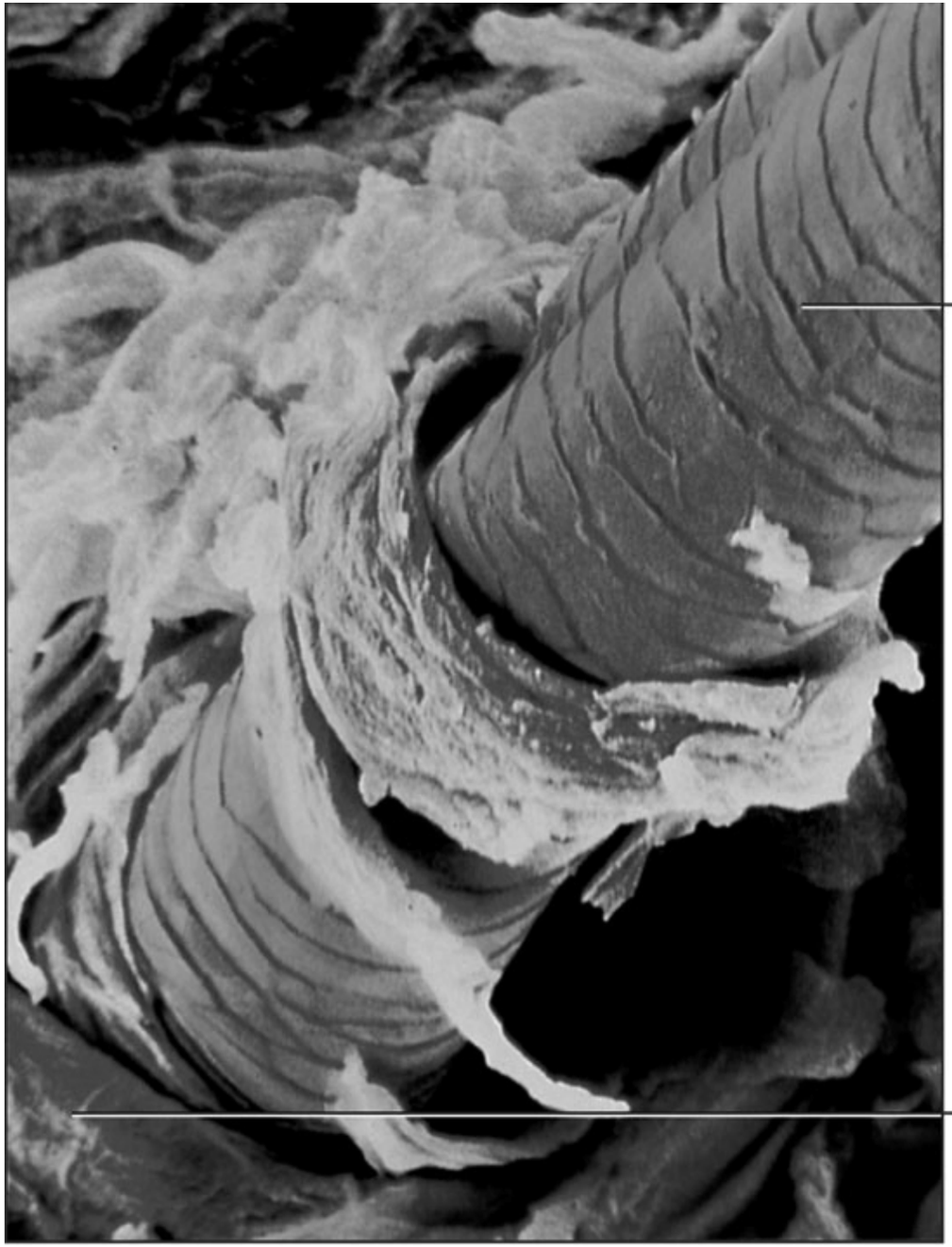
ESTRUCTURAS ACCESORIAS

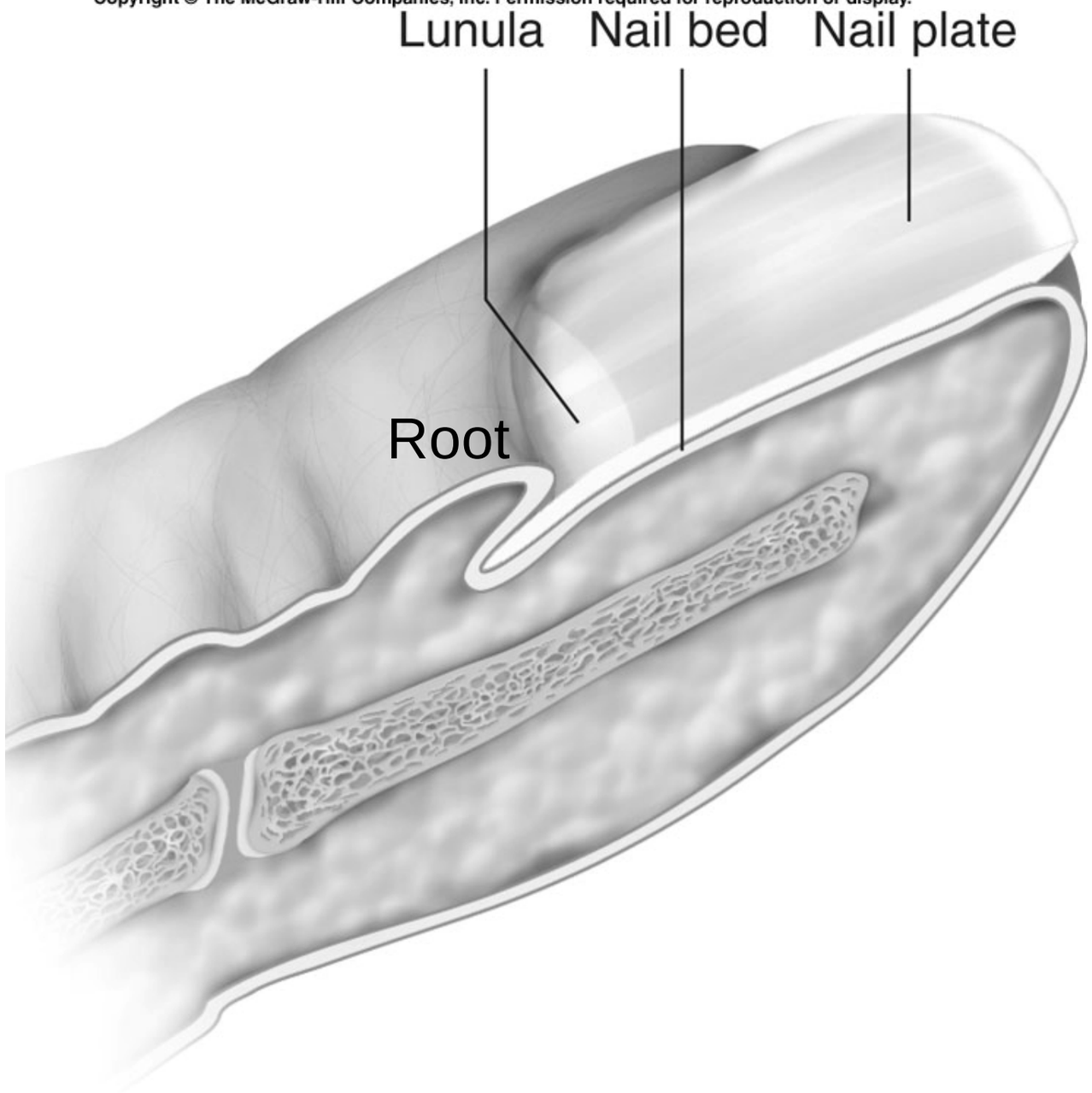
- Pelo
  - Lanugo
  - Folículos pilosos
- Glándulas sebáceas, ceruminosas y sudoríparas (ecrinas, apocrinas)
- Uñas



antifungal




Keratinized cells of hair shaft
Keratinized cells of epidermis

UÑA

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