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(Cover) Scanning electron micrograph of human hair (× 5000). Ends were sliced off, revealing a central medulla (inner dark circle), cortex, and cuticle. (Above) Scanning electron micrograph of a human hair (× 775), sliced transversely, shows six layers of cuticle surrounding cortex. Cortex appears rough, unlike smooth surface seen in cover photo. [Emil Bernstein and Elsa Kairinen, Gillette Company Research Institute, P.O. Box 400, Des Moines, Iowa]