

The Art of Nature: Urine under the Microscope

HANS-JOACHIM ANDERS AND DETLEF SCHLÖNDORFF

Medizinische Poliklinik, Ludwig Maximilians Universität, Munich, Germany.

Microscopic analysis of urine sediment has been called the nonbloody renal biopsy. In addition to its important diagnostic clues, microscopy of the urine sediment may also provide unexpected artistic images (Figure 1, A through G).

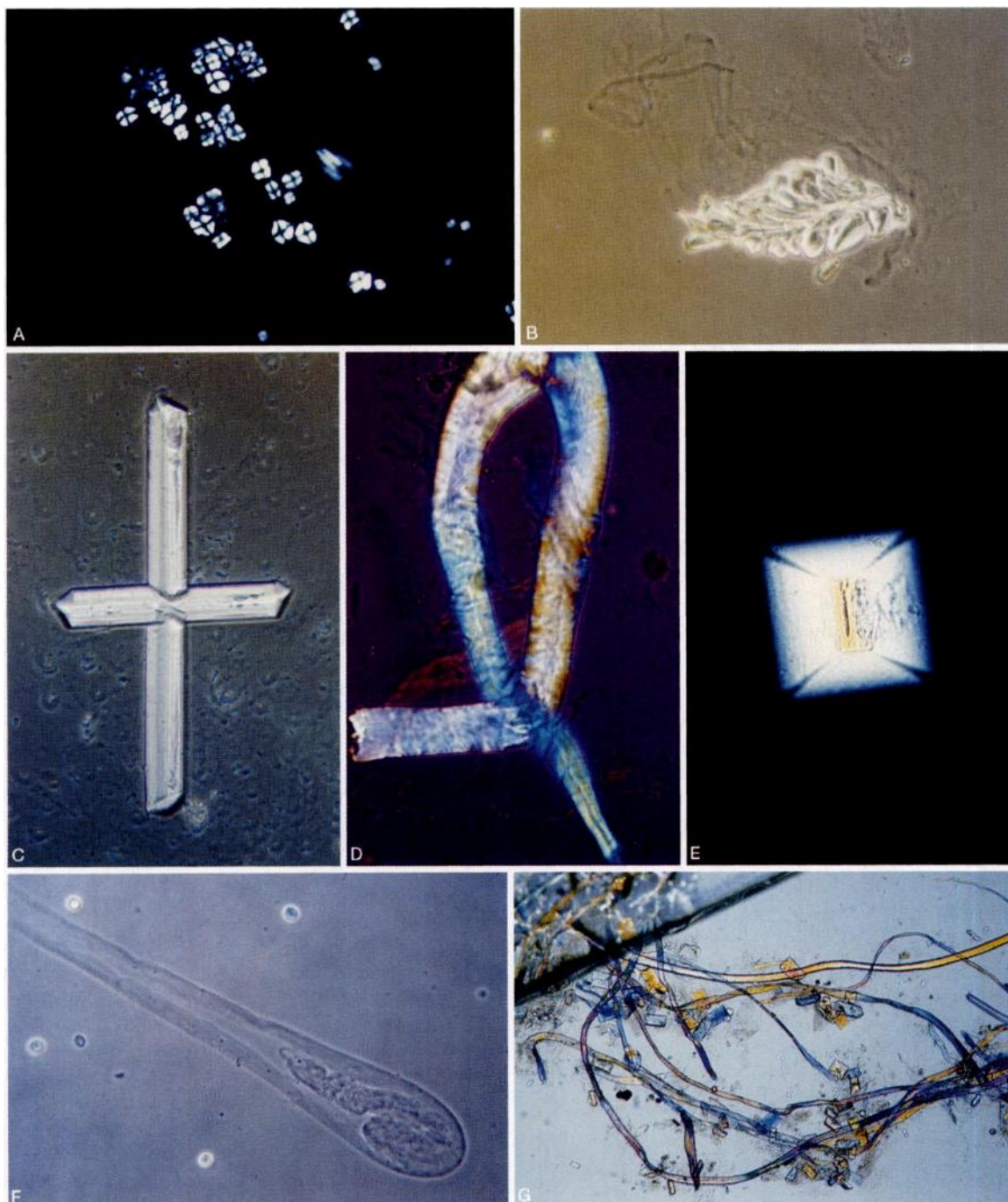


Figure 1. (A) Cat eyes in a dark night (starch particles, polarized light, $\times 400$). (B) Dragon fish (shell-like calcium phosphate crystals, phase contrast, $\times 400$). (C) Southern cross constellation (rod-like triple phosphate crystals, phase contrast, $\times 400$). (D) AIDS activist pin (hair, polarized light, $\times 400$). (E) Diamond (triple phosphate crystal, polarized light, $\times 400$). (F) Halley's comet in a cloudless sky of stars (mucus and erythrocytes, phase contrast, $\times 400$). (G) Expressionist painting of unknown painter (cotton fibers and triple phosphate crystals, polarized light, $\times 100$).