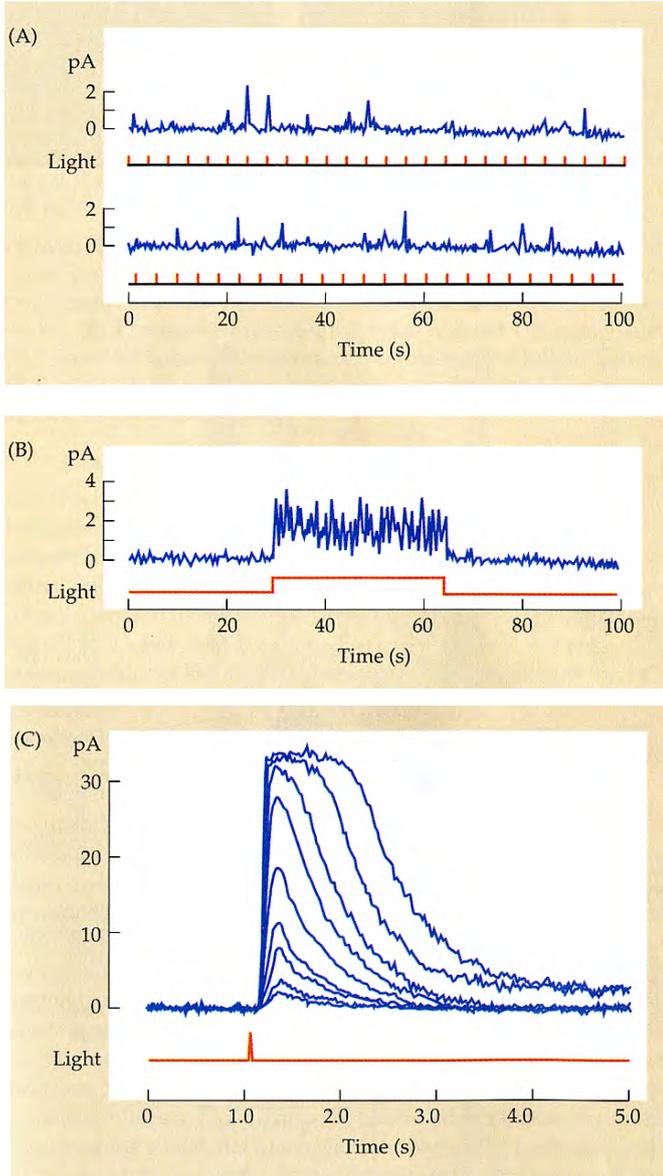
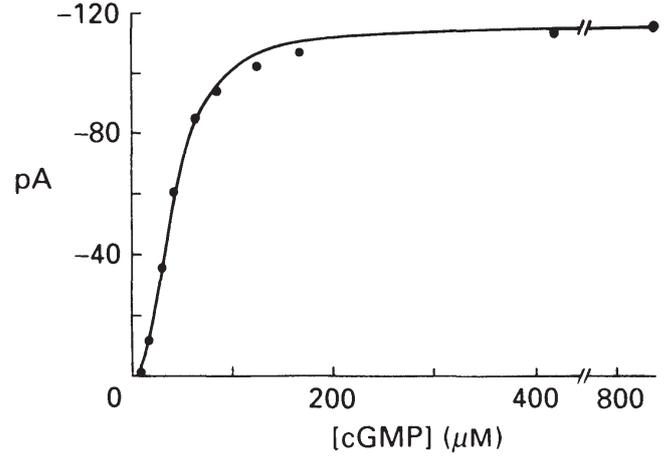


①



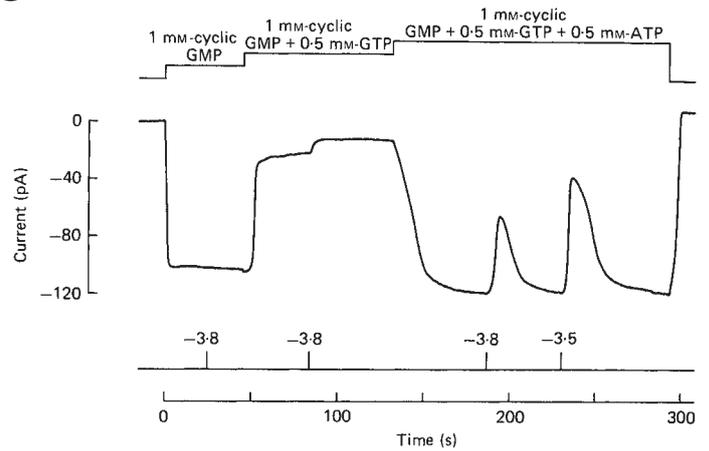
**FIGURE 19.14 Recordings Made by Suction Electrode from Monkey Rod Outer Segment.** (A) Responses to dim flashes (applied as indicated in the red traces labeled "Light") are shown in the two current traces. The currents fluctuate in a quantal manner. Smaller deflections are the currents generated by single photons interacting with visual pigments. Often photoisomerizations failed to occur. (B) Steady, more intense illumination (bottom trace) gives rise to a burst of signals. (C) Records from a rod in a monkey retina with flashes of increasing intensity. These currents are the counterpart of voltage traces shown in Figure 19.5B. (From Baylor, Nunn, and Schnapf, 1984.)

②



**Fig. 18.44. The relation between cyclic GMP concentration and inward current in a dialysed rod outer segment.** Each point on the curve was determined as in fig.18.43 b. (From Y au and Nakatani, 1985.)

③



**Fig. 13. Effect of light on the cyclic GMP-activated current in the presence of GTP and ATP.** No IBMX was present in any of the solutions. The number above each flash monitor indicates the log attenuation of the light intensity. The '-3.8' flash delivered about 11 photons  $\mu\text{m}^{-2}$  (500 nm), which is close to an intensity that would normally just saturate the response in an intact rod ( cf. Fig. 1 ). The '-3.5' flash delivered about 24 photons  $\mu\text{m}^{-2}$ . Length of truncated outer segment within the pipette = 25  $\mu\text{m}$ .

④

