PHOTOTRANSDUCTION - FLY Closed Cell membrane K13802 DARK K02677 Drosophila rhabdomeric photoreceptor cell Cell body Microvilli Submicrovillar cisternae (SMC) K13805 Central actin filament LIGHT hv Cell membrane K13802 +p ်ဝ_{FA} Depolarization LIGHT (Light response) IP3 Drosophila Cell body rhabdomeric photoreceptor cell Calcium signaling pathway Microvilli K13805 Central actin filament Visual pigment: Rhodopsin (Rh) Metarhodopsin (Interaction with Gq) Submicrovillar cisternae (SMC) hv (470nm) Rhodopsin Activation K13802 K13805 Photoregeneration Inctivation hv (570nm) 3-OH-all-trans-retinal 3-OH-11-cis-retinal 04745 5/30/13 (c) Kanehisa Laboratories