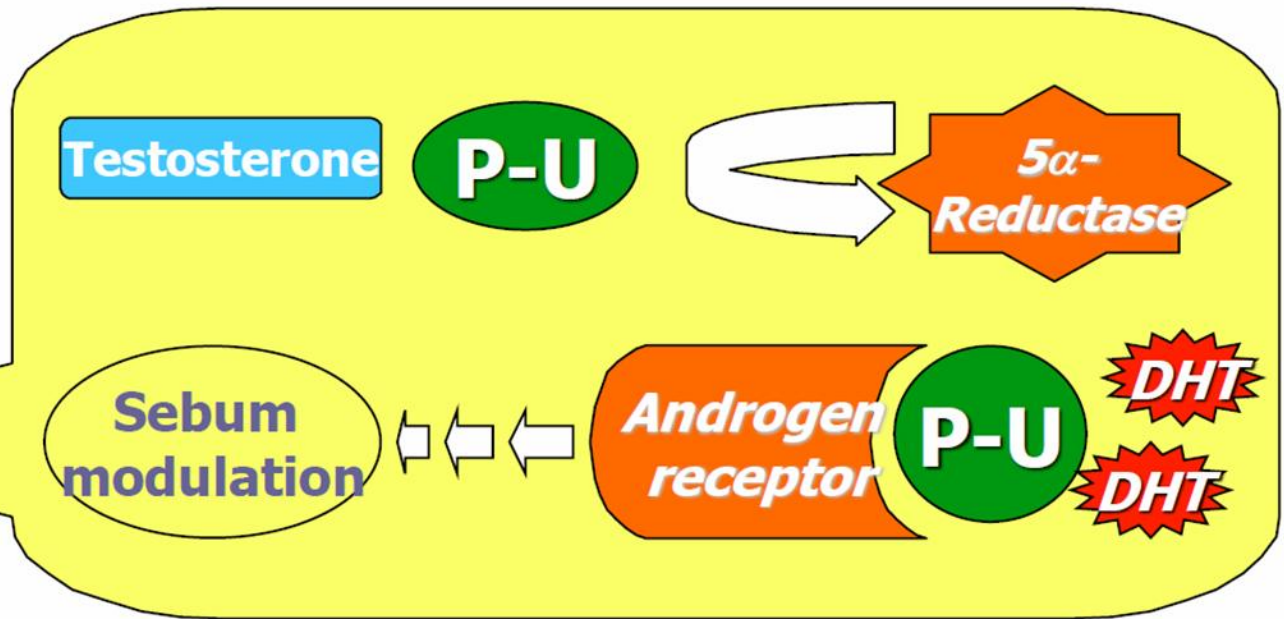
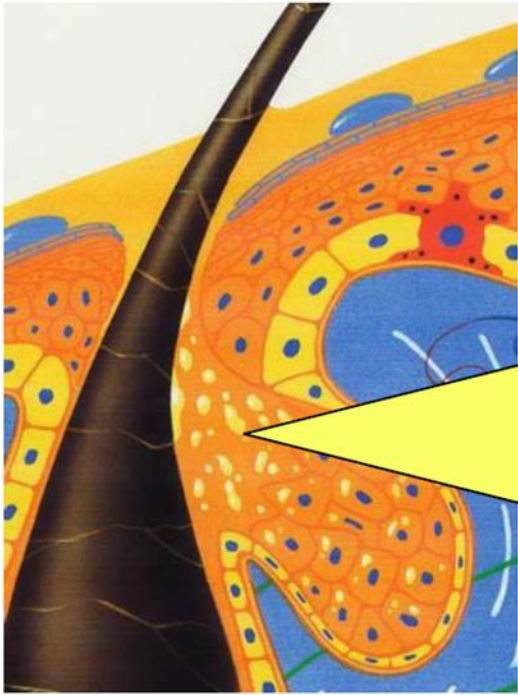
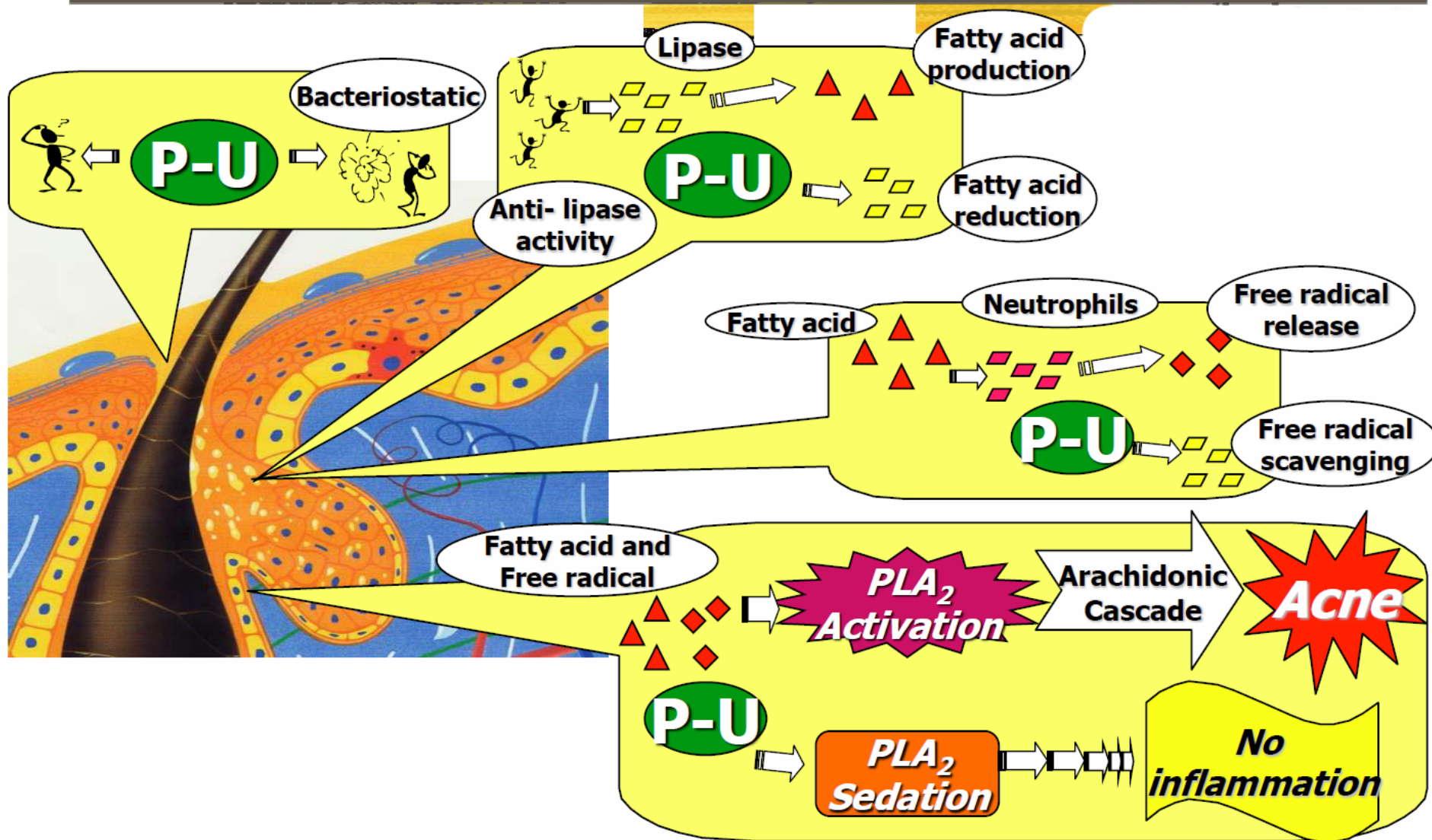


Development Target 2; POLYOL SOLUBLE LICORICE EXTRACT P-U



Development Target 2; POLYOL SOLUBLE LICORICE EXTRACT P-U



Summary of Characteristics of POLYOL SOLUBLE LICORICE EXTRACT P-U

⌘ **Active Constituent; Licochalcone A**

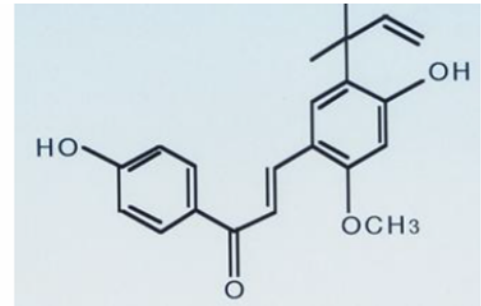
⌘ **Function; Sebum modulation, Anti-acne**

⌘ **Biological Activity;**

- (1) Anti-androgenic activity
- (2) Anti-microbial effect
- (3) Anti-lipase activity
- (4) Free radical scavenging effect
- (5) Anti-phospholipase A₂ activity

⌘ **Physical Property;**

- ⊗ Insoluble neither in water nor oil.
- ⊗ Soluble in ethanol, 1,3-BG and PG.



Specification of AQUA LICORICE EXTRACT P-U

Item	Specification
Description	Yellowish brown to brown liquid having a characteristic odor.
Identification (Flavonoid)	Positive
Specific Gravity	1.000~1.100
pH (1→10)	3.9~5.9
Purity Test (1) Heavy metals (2) Arsenic	Not more than 20 ppm Not more than 2 ppm
Assay (Licochalcone A)	0.60~1.60 %