

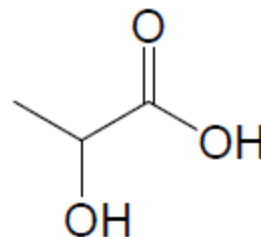
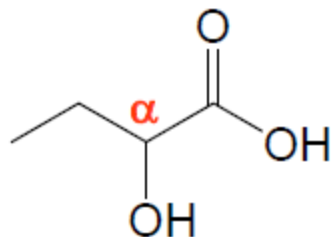
# Chemistry Enrichment Course

## C102: Molecular Science in Personal Care Products

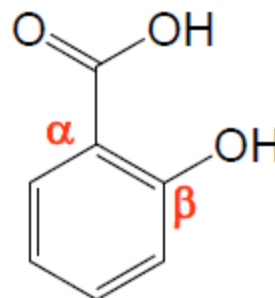
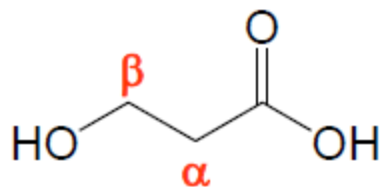
Department of Chemistry  
HKUST

# Chemical peel

- Alpha hydroxy acids (AHA) (果酸)-  
**Glycolic acid (甘醇酸)**



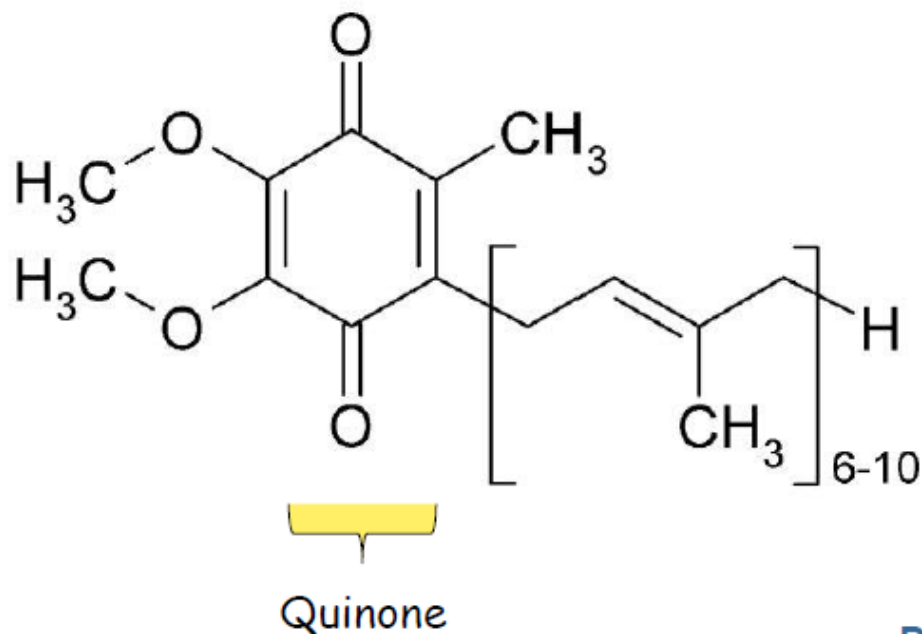
- Beta hydroxy acid (BHA)-e.g. **Salicylic acid (水楊酸)**





# Coenzyme Q10

- benzoquinone, where **Q** refers to the quinone chemical group, and **10** refers to the isoprenyl chemical subunits.



But ... actually, I want to

be a **blonde**  
**girl** !!!

Oh ...

**I understand!**

...

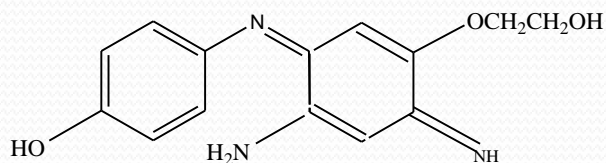
Since I got **high level of eumelanin**, that's why my **hair is so black!**



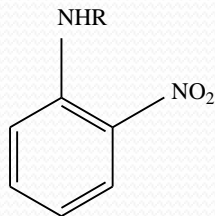
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# Hair Dye

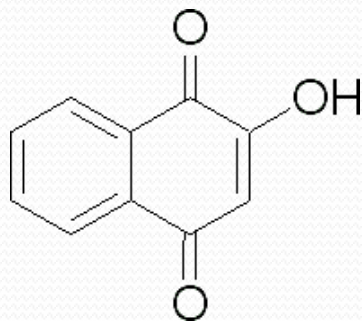
- Hair colourants:
  - Permanent (oxidation dye)  
→ Good stability



- Semi-permanent



- Natural Dye



I can help you out.



# Step (1): Bleaching

- $\text{H}_2\text{O}_2$  in an alkaline solution opens the hair shaft to allow the peroxide to react with the melanin.
- $\text{H}_2\text{O}_2$  reacts with the melanin, so that removes its original hair colour.

