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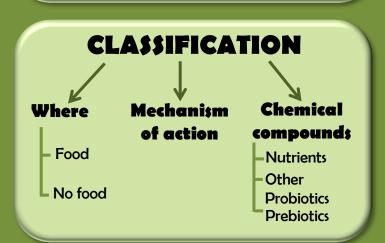
THE NUTRACEUTICALS

LAURA RIERA FERRÓN. JUNE 2017.

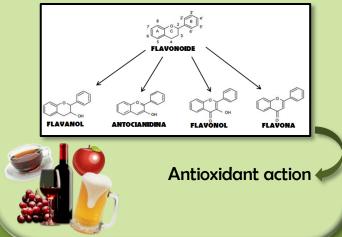


AIM\$

- 1. To refute misconceptions.
- To collect all the information available about nutraceuticals, specifically about classification and bioavailability.
- To exemplify the information with an specific nutraceutical.



FLAVONOID\$



Nutraceuticals are food components, which provide an extra benefit to human health.

NUTRACEUTICAL\$

FUNCTIONA FOODS

| MAJOR CLASSES | SUBCLASSES |
|-----------------------|--|
| Bioaccessibility (B*) | Liberation Solubilization Interactions |
| Absorption (A*) | Mucus Layer Bilayer permeability Active, tight junctions or efflux transporters |
| Transformation (T*) | Chemical degradation Metabolism |

Table 1. NuBACS classification

INCORPORATION IN FOOD

Limited factors for adding nutraceuticals in food matrices:

- > Organoleptic changes
- Interactions with other components
- Degradation in the processing of food
- Stability throughout shelf life
- Maintain the beneficial effect

ENCAPSULATION

CONCLUSIONS

- 1. More functional foods = more nutraceuticals 4. The
- 2. There's no law about nutraceuticals
- Absorption depends on the factors listed at NuBACS classification
- The encapsulation increases the absorption
- 5. Flavonoids are the most active nutraceuticals in the world of plants. Important for its antioxidant action.