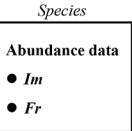


**(a) Taxonomic similarity**

- Im.TS<sub>BC</sub>
- Fr. TS<sub>BC</sub>

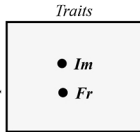
Similarity  
matrix

Site



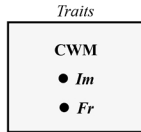
×

Species



=

Site



→

**(b) Functional similarity**

- Im.FS<sub>BC</sub>
- Fr. FS<sub>BC</sub>

Similarity  
matrix

- **Abundance-based:**

Taxonomic  $\Delta CS = \text{Im.TS} - \text{Fr.TS}$

- **Abundance-based:**

Functional  $\Delta CS = \text{Im.FS} - \text{Fr.FS}$