Interactions of systems

Every cell performs same basic activities.

Cells obtain nutrients to:

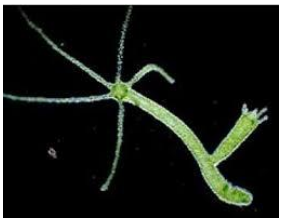
→ dispose of waste

→ get energy

→ move substances

→ divide

→ grow



Simple organisms simply need cells or tissues to do all their job.

Larger, more complex organisms (like you!) need <u>organ</u> <u>systems.</u>

- Often organ systems need to work together. We say they 'interact'.

A – The digestive system interacts with the circulatory. The blood vessels absorb the digested (smaller) bits of nutrition and deliver them around the body.

B - The circulatory system interacts with muscles and EVERY cell in the body to deliver these nutrient and also take away any waste products (including, but not only, CO_2)

C – The circulatory system interacts with the urinary system to take urea (waste) from the blood, to bladder, at which point its released as urine.

D – The circulatory system interacts with the respiratory system to exchange CO_2 and O_2.