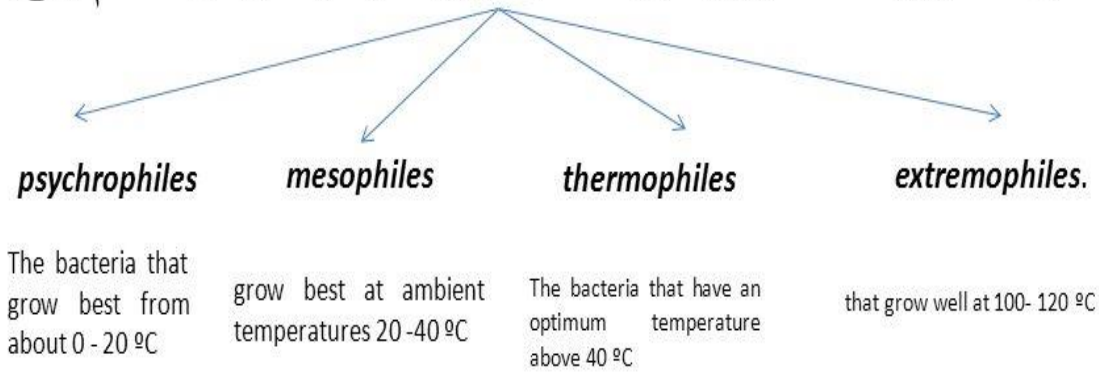
درجة الحرارة
Temperature

According the temperature degree that bacteria survive, they can classified to :

وفقا لدرجات الحرارة وبقاء البكتيريا حية يمكن أن تقسم إلى:



Bacteria may grow across a wide range of temperatures, from very cold to very hot. A mesophile is an organism that grows best in moderate temperature, neither too hot nor too cold. All human pathogens are mesophiles. Organisms that prefer extreme environments are known as extremophiles: those that prefer cold environments are termed psychrophilic, those preferring warmer temperatures are termed thermophilic or thermotrophs and those thriving in extremely hot environments are hyperthermophilic.

- **Psychrophiles:** An organism that live in low temperature reach up to 2°C.

- **Mesophile**: An organism, especially a microorganism that lives and thrives at moderate temperatures.

- **Psychrophile**: An organism that can live and thrive at temperatures much lower than normal; a form of extremophile.

- **Thermophile**: An organism that lives and thrives at relatively high temperatures, a form of extremophile.

From the above types of bacteria is Extremophiles, which is a kind of resistance bacterium due to its extreme environment of living. These extreme environments include intense heat, highly acidic environments, extreme pressure and extreme cold. Extremophiles form great fear due to of varying ways of adapting to the environments that were not once thought to be able to sustain life.

In deed, It's truly that Extremophiles adapting to extreme heat at very high temperatures range between 70°C to 80°C and between 113 to 251 degrees Fahrenheit. They can be found in places like hydrothermal vents, volcanic sediments, and hot springs. Their survival in such places can be accredited to their extremozymes. The amino acids of these types of enzymes do not lose their shape and misfold in extreme heat, allowing for continued proper function.

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A few years after these discovered, other bacteria, hyperthermophile, were found living under even more extreme conditions. An article about Hyperthermophile will be written in the next release widely.