

Topic: Different Organisms are Affected by Microwave Radiation

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***Corresponding Author:** Kunal Joon, Noida International Institute of Medical Sciences, Haryana, India.**Received:** March 12, 2024**Published:** April 06, 2024© All rights are reserved by **Kunal Joon**.**Abstract**

Microwave radiation affect differently in different bacteria like *Escherichia coli* it decrease viable count and increase protein and DNA in the cell so the study is performed on the Bacteria like *Escherichia coli* to study the effect of radiation on it.

Keywords: *Escherichia coli*; Bacillus anthrax; Microwave; Radiation; DNA; Stem Cell Theory

Effect of temperature on bacteria

There is the optimum temperature growth for bacteria it varies with the bacteria [1].

Figure 1 in this figure it is the suspension of the bacteria *Escherichia coli* with 0.5 percent NaCl and the temperature growth curve is shown [2].

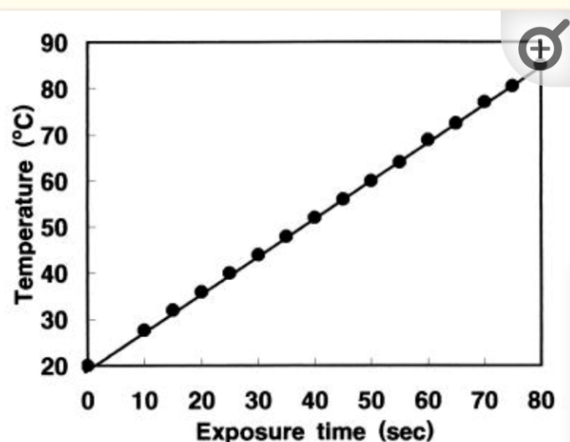
**Figure 1**

Figure 2 shows the change of cell density and viability of bacteria *E. coli* (left panel) and *Bacillus subtilis* (right panel) according to the microwave radiation at temperature 20 degree Celsius [3].

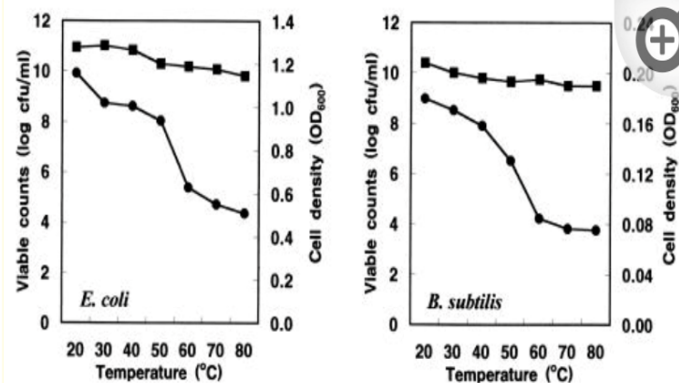
**Figure 2**

Figure 3 shows the amount of nucleic acid and protein amount raising on giving microwave radiation in supernatant [4].

Figure 4 it shows the micrographic comparison of the both microwave radiated and unradiated [5] bacteria. Showing the damage caused by them [6].

Figure 5 it shows the Sensitivity comparison of bacteria *E. coli* and *B. subtilis* and also comparison of Sensitivity between radiated bacteria and non radiated bacteria [7].

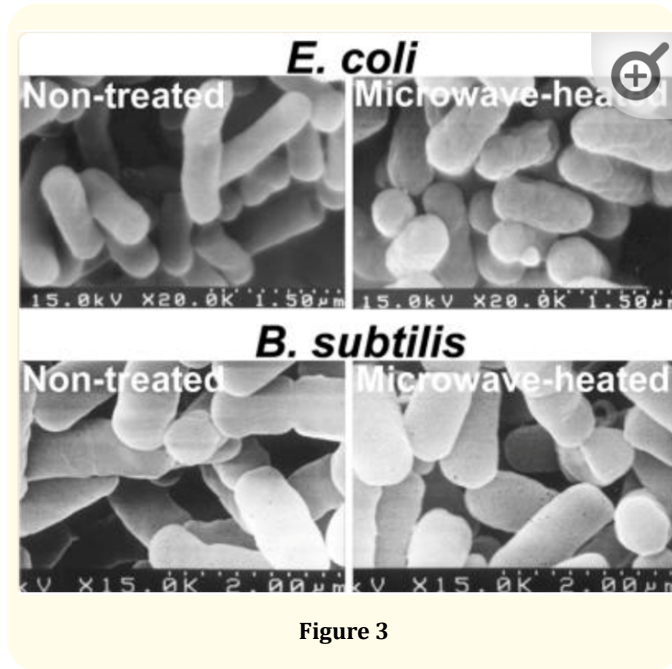


Figure 3

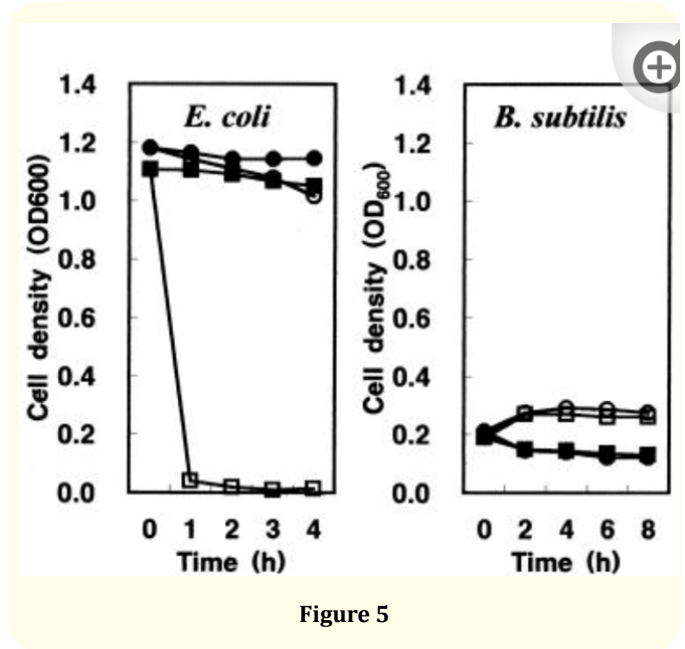


Figure 5

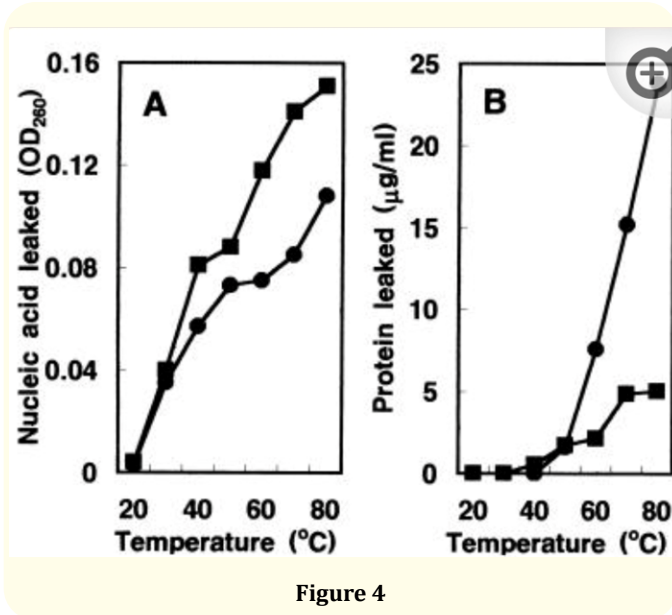


Figure 4

Discussion

- Effect of microwave radiation in the bacteria
- Comparison of nonradiated bacteria and radiated bacteria.

Conclusion

Nuclear content increases on radiation in bacteria and its connected to stem cell theory.

Bibliography

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