Name of institution

Name of student

Name of course

Date

**Introduction /summary of the article**

The evolutionary concept works from the perspective of gaining more knowledge on a specificresearch point. The understanding of the phenomenal parts and risks within different areas in the strain to solve various human and environmental health problems. It has contributed to the growing knowledge of different research areas where the effect is measly directed to the human capital or the ecological setting of the environment (Ward, Perron, &Maclean, 2009). The author puts the idea in a specific direction in understanding the resistance of bacteria to different antibiotics. He views the issue as competition from different strains as to the resilience of such in terms of frequencies. Trying its best to solve the stagnant effect in the health treatment of humans and bringing onboard different options for the same situation. In unison with building work as to the underlying reasons behind the un completing aspect of resistant bacterial and that of sensitive bacteria.

**The relevance of the paper in the area**

The knowledge generated in understanding the different reasons behind the multidrug resistance of bacteria is quite helpful in delivering value to human health. The article was critical in gaining the underlying knowledge of the relationship between the antibiotics administered, the different resistant drugs, and the various resistance profiles. The information has also been critical in ensuring that better treatment options made in the given situation. The article majorly solves;

* The relationship between the multidrug resistance to the different bacterial infections
* The competition between the different bacteria.
* Understanding the trends on why resistant bacteria are not continually outcompeting the sensitive ones.
* Gaining a better understanding of the future of bacterial resistance in two dynamic perspectives;

The likeness of new resistance to multidrug and the reduced impact of changing prescriptions in combating multidrug resistance

**How do these studies help us solve a pressing issue in human and environmental health?**

Human health is a critical field to understand the issues and develop processes of solving them better. The study is quite paramount in gaining product knowledge of emerging methods that would help in solving the problems at hand. The human treatment has been on the discussion on the effects and influences of multidrug resistance bacteria (Croucher et al., 2011). Over the years, the resistance to such drugs has continually caused hiccups in getting better treatment in hospitals. By the study putting into light the aspect from a well understandable perspective, it helps the researchers and doctors to develop and create new ideas to solve the same. Similarly, being in a position to solve the existing problem while still researching on new developments is a more significant achievement brought about by the study. Advancements in technology research have also been a critical impact in solving the evolution of the bacteria and its resistance to multidrug.

Alternatively, the relationship between human and environmental health is on a higher level since research indicates a more significant influence of the environment on human health. The studies have, therefore, gone deeper into the study and showcased better environment treatment options that would help in solving some of the ecological evolution issues of bacteria. Living in a healthy environment will also guarantee human health in a better part. Resistance to drugs gets similarly contributed by the adaptive aspect of humans, an element that the study works on solving and offering alternatives.

**Future research to further advance the understanding of the area.**

The study on bacterial resistance to antibiotics requires research since every dawn new bacterial infection reported. As the environment changes, so do the bacteria advance in opposition. I would recommend the adoption of technology methods in understanding the root cause of resistance. By deploying essential tools and advanced research techniques, better performance, and understanding of the issue would get achieved. Alternatively, being able to adjust the current environmental setting would also be a key aspect in opinion and achieving research objectives in the area.

References

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