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Next generation approach in Food Safety

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Food safety is an important aspect in sustainability approach in addressing ONE health concept in which in this paper we address the next generation approaches to ensure that food safety is assessable to all people. The presence of bacterial toxins, viral and parasites is the concern for most food safety regulation but in our study, we would like to demonstrate a holistic and paradigm shift on how animal and plant health from its early development to adult stages life cycle is the next generation approach to ensure food is safe to be consumed. We would like to demonstrate the impact of abiotic and biotic stress which shaped the microenvironment and microenvironment of a model aquatic system which we used in or case study which is shrimps. In our methodology we used transcriptome, micro RNA, mRNA and biochemical and physiology and genetic adaptation of the system that is regulated towards our approach in food safety.

References

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