

Essential oils as an alternative role in pest management

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Indiscriminate usage of pesticides and its impact in the environment in the long run has caused an alarming situation as the quality of the food crop are deteriorated, human health and non-target organism are being harmed continuously. Despite of the instant action the chemicals produced in management perspective we cannot overlook the other side of the story that it creates. Some pesticides can even remain in the soil for over 8 years while some has the ability to destroy the active physiological process of a cell causing a change in the stable functioning of cell division. These setbacks caused by the chemicals can be counteract through other Eco-friendly approaches such as Essential oils from various plant families. These oils have broad spectrum action, low toxicity to non-target organisms and efficiently manage many pests. Some oils exhibit different mode of actions these causes a delay in developing resistance to the pest on the contrary pests develops resistance to most of the synthetic chemicals when continuous application the chemicals are employed. Therefore, Essential oils can play a pivotal role in pest management as an alternative role to synthetic chemicals. Integrating essential oil as a component in IPM can result in satisfactory outcome with desired yield.