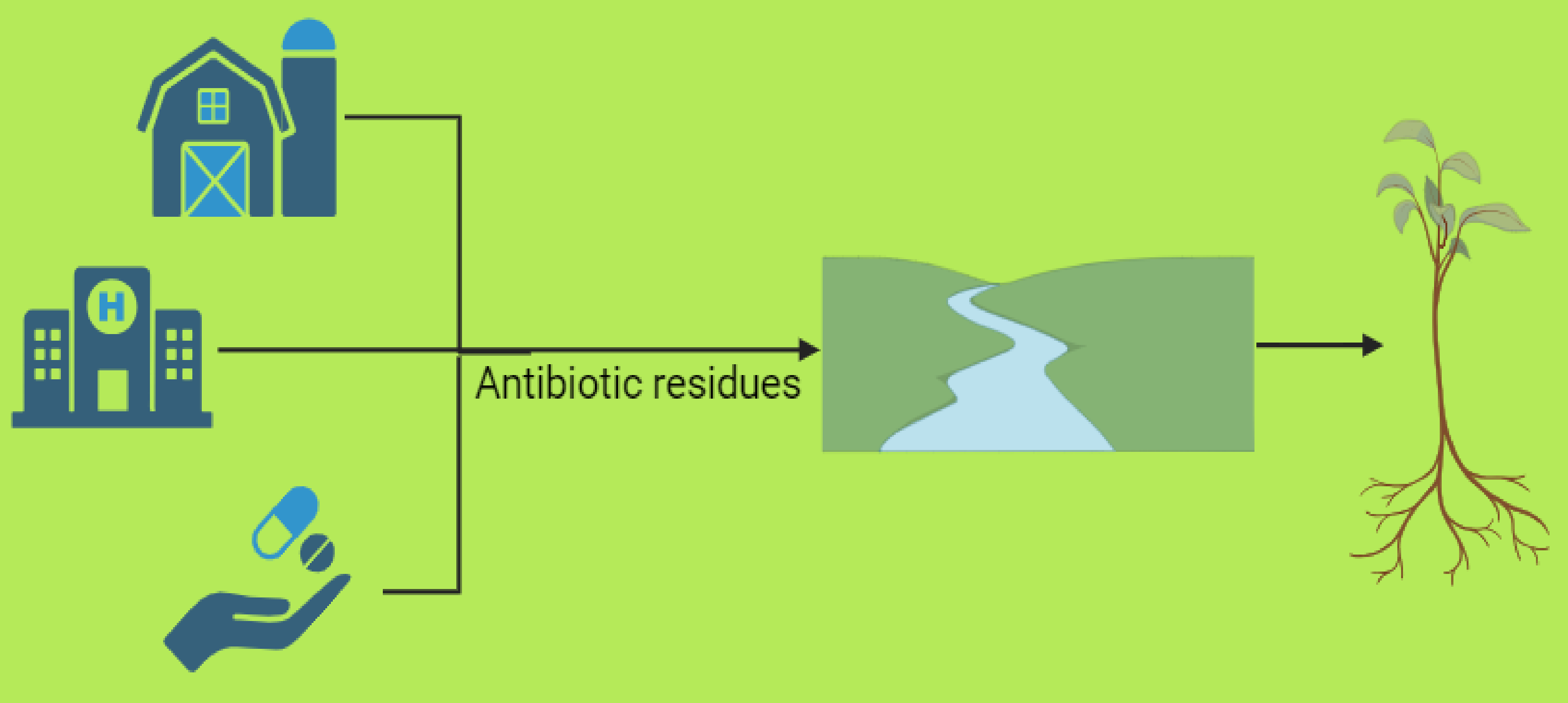


SULFAMETHOXAZOLE PHYTOTOXIC EFFECTS ON GERMINATION AND GROWTH OF SOME AROMATIC PLANTS

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Introduction



Schematic overview of the main sources of antibiotic residues in the environment

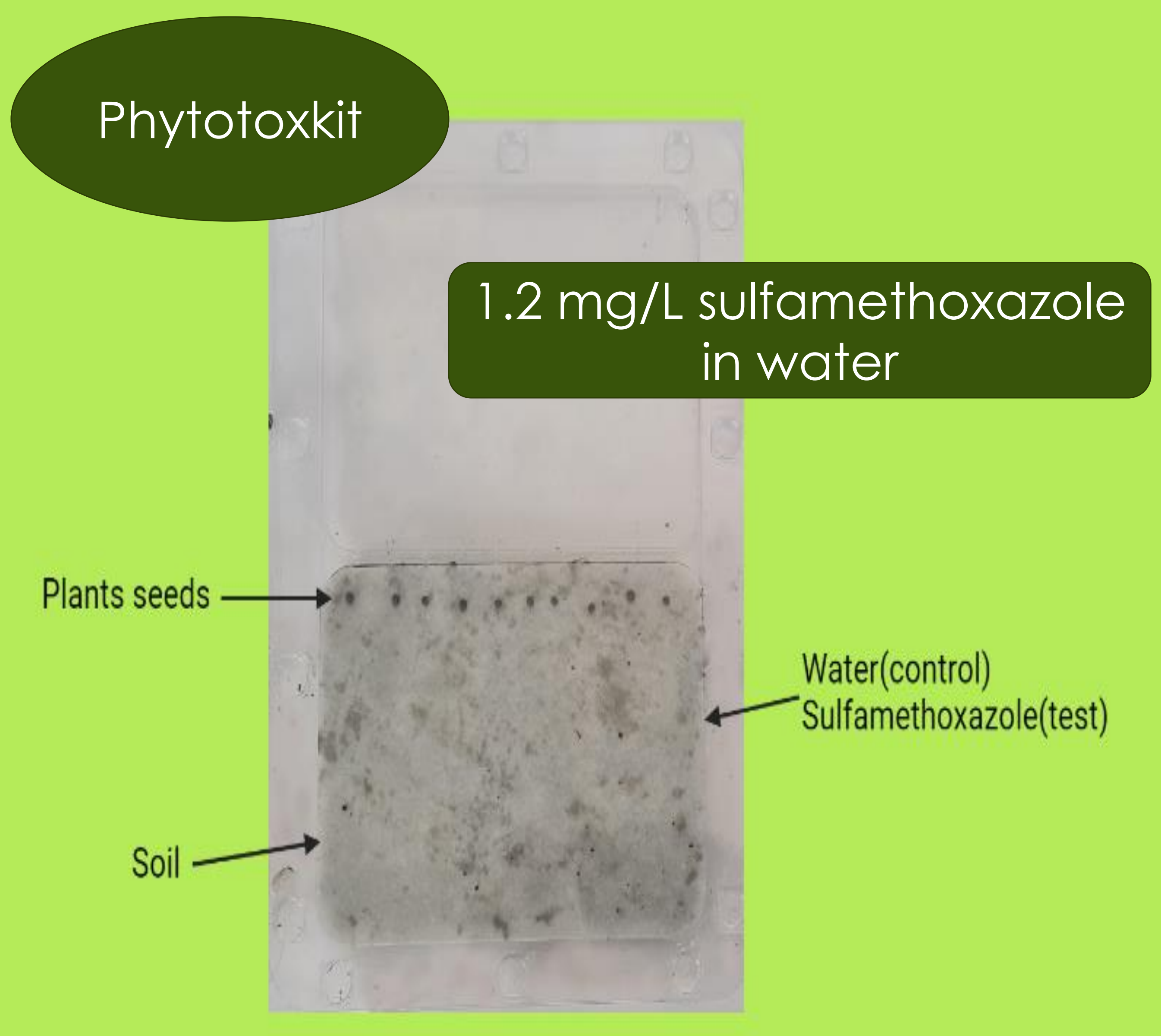
Antibiotics have been worldwide used in fields from clinic sector to animal farm where they are used to heal sick livestock, prevent sickness and for boosting weight gain and growth.

Negative effects on plant growth, physiology, or metabolism caused by a chemical substances, such as high concentration of fertilizers, heavy metals and antibiotics.

Phytotoxicity =

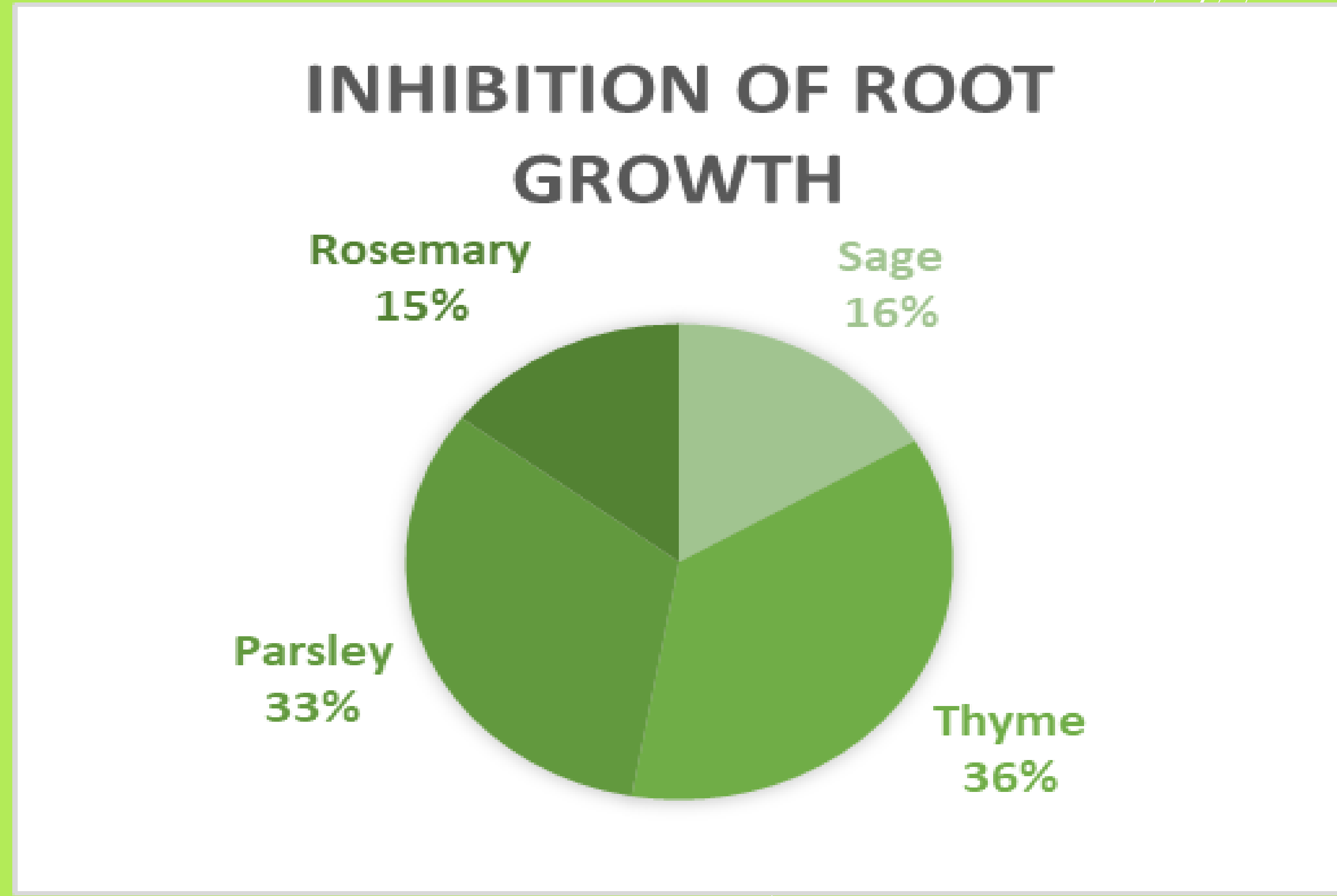
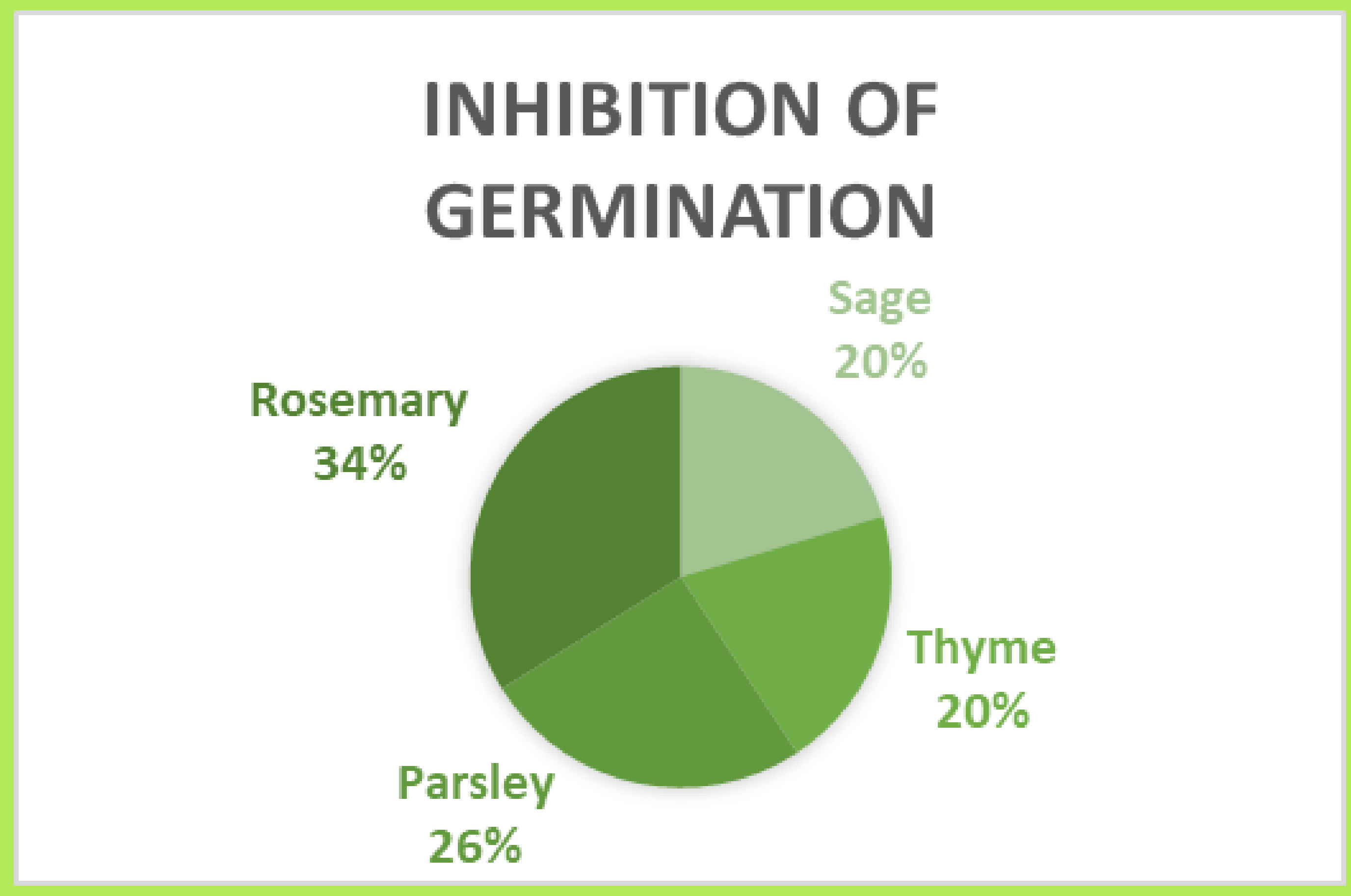
Materials and methods

The seeds used were rosemary (*Rosmarinus officinale*), sage (*Salvia officinalis*), thyme (*Thymus serpyllum*) and parsley (*Petroselinum crispum*).



Incubated at 25 °C, 5 days for germination and 20 days for growth.

Results and Conclusions



For the rosemary, thyme and parsley was observed no branching of the root-hairs and no secondary roots.

Acknowledgments

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