# The Potential of Natural Products in Control of Domestic Rodents and Their Zoonotic Diseases

A thesis Submitted
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***Walaa Samir Ahmed Nasser***

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# List of Abbreviations

| | |
|---|---|
| µl | Microliter |
| 65%CC | B. 1 |
| 65%CCP | B. 4 |
| 65%CCW | B. 3 |
| 65%DLCC | B. 9 |
| 65%DLRS | B. 7 |
| 65%DLSCB | B. 8 |
| 65%RS | B. 6 |
| 65%SCB | B. 5 |
| 90%CC | B. 2 |
| ANOVA | Analysis of Variance |
| BA | Bait acceptance |
| BW | Body weight |
| CC | Corn cob |
| CCP | Corn cob pith fraction |
| CCW | Corn cob woody-ring portion |
| CDB | Consumed dose of bait |
| cELISA | Competitive enzyme-linked immunosorbent assay |
| cm | Centimeter |
| CRT | Cross-species transmission |
| CFU | Colony-forming unit |
| DD | Days to death |
| DLCC | Delignified corn cob |

| | |
|---|---|
| DLRS | Delignified rice straw |
| DLSCB | Delignified sugar cane bagasse |
| DMSO | Dimethyl sulfoxide |
| EGEO | *Eucalyptus globulus* essential oil |
| ELISA | Enzyme-linked immunosorbent assay |
| EOs | Essential oils |
| Fig. | Figure |
| g | gram |
| GC-MS | Gas Chromatography-Mass spectrometer |
| h | Hour |
| in | Inch |
| $IC_{50}$ | 50% Inhibitory concentration |
| LGEO | lemongrass essential oil |
| MAT | Microscopic agglutination test |
| MBC | Minimum bactericidal concentration |
| mg | Milligram |
| MIC | Minimum inhibitory concentration |
| Min. | Minute |
| ml | Milliliter |
| NaOH | Sodium hydroxide |
| OD | Optical densities |
| OMEO | *Origanum majorana* essential oil |
| *R. norvegicus* | *Rattus norvegicus* |
| *R. rattus* | *Rattus rattus* |
| RI | Retention index |