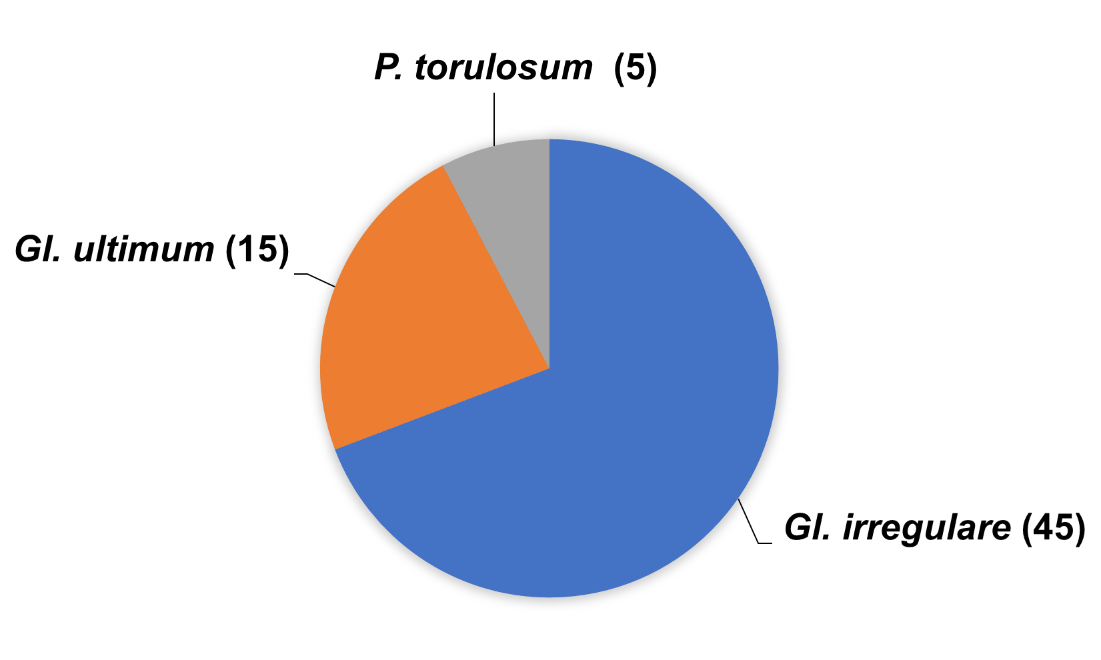
**Chapter 3: Oomycete species in soils from the maize fields in the Free State and North West provinces of South Africa**

**Figures**

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**Figure 1:** *Pythium* strains isolated from maize agricultural soils in Free State and North West. Numbers in brackets represent the number of strains isolated for each species.

**Tables**

**Table 1:** The NCBI GenBank ‘BLAST Hit’ of the oomycete species that were recovered from the maize commercial farms

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **CN number** | **Species Name** | **Farm region** | **Max score** | **Query coverage (%)** | **Percentage identity (%)** | **Accession length** | **Accession number** |
| CN-Oom00A1 | *Gl. Irregulare* | Bothaville | 1753 | 99 | 99.28% | 1034 | MT377917.1 |
| CN-Oom00A2 | *Gl. Irregulare* | Bothaville | 1724 | 99 | 99.07 | 979 | HQ643583.1 |
| CN-Oom001A3 | *Gl. irregulare* | Bothaville | 1725 | 99 | 99.47 | 996 | MK794854.1 |
| CN-Oom001A4 | *Gl. irregulare* | Bothaville | 1552 | 100 | 98.00 | 4212 | AY598702.2 |
| CN-Oom001A5 | *Gl. irregulare* | Bothaville | 1688 | 99 | 99.05 | 944 | KU210485.1 |
| CN-Oom001A6 | *P. torulosum* | Bothaville | 1553 | 100 | 99.65 | 874 | MK794874.1 |
| CN-Oom001A7 | *Gl. ultimum* | Schwiezer-Reneke | 1677 | 100 | 100 | 919 | MK794642.1 |
| CN-Oom001A8 | *Gl. irregulare* | Bothaville | 1772 | 99 | 99.09 | 1035 | KU211360.1 |
| CN-Oom001A9 | *Gl. irregulare* | Bothaville | 1711 | 100 | 99.16 | 1026 | KU210458.1 |
| CN-Oom001B1 | *Gl. irregulare* | Bothaville | 1712 | 99 | 99.16 | 1026 | KU210458.1 |
| CN-Oom001B2 | *Gl. ultimum* | Schwiezer-Reneke | 1677 | 100 | 100 | 915 | MK794790.1 |
| CN-Oom001B3 | *Gl. irregulare* | Bothaville | 1310 | 99 | 96.20 | 4212 | AY598702.2 |
| CN-Oom001B4 | *Gl. irregulare* | Bothaville | 1720 | 99 | 99.47 | 973 | MK794815.1 |
| CN-Oom001B5 | *Gl. irregulare* | Bothaville | 1718 | 97 | 99.37 | 1026 | KU210458.1 |
| CN-Oom001B6 | *Gl. irregulare* | Bothaville | 1760 | 99 | 99.38 | 1026 | KU210458.1 |
| CN-Oom001B7 | *P. torulosum* | Bothaville | 1463 | 100 | 99.05 | 874 | MK794874.1 |
| CN-Oom001B8 | *Gl. irregulare* | Bothaville | 1722 | 198 | 100 | 937 | GQ410431.1 |
| CN-Oom001B9 | *Gl. irregulare* | Bothaville | 1722 | 99 | 99.47 | 947 | KU210458.1 |
| CN-Oom00C1 | *Gl. irregulare* | Bothaville | 1757 | 100 | 99.79 | 4212 | AY598702.2 |
| CN-Oom00C2 | *Gl. irregulare* | Bothaville | 1727 | 97 | 99.07 | 982 | MK794854.1 |
| CN-Oom00C3 | *Gl. ultimum* | Bothaville | 1594 | 100 | 99.66 | 4212 | AY598702.2 |
| CN-Oom00C4 | *Gl. irregulare* | Bothaville | 1736 | 100 | 99.58 | 958 | MW025225.1 |
| CN-Oom00C5 | *P. torulosum* | Bothaville | 1556 | 100 | 99.48 | 874 | MK794874.1 |
| CN-Oom00C6 | *Gl. irregulare* | Vrede | 1653 | 100 | 98.52 | 984 | KU210950.1 |
| CN-Oom00C7 | *Gl. irregulare* | Bothaville | 2255 | 99 | 97.31 | 4212 | AY598644.2 |
| CN-Oom00C8 | *Gl. irregulare* | Bothaville | 2322 | 100 | 97.90 | 4201 | HQ643515.2 |
| CN-Oom00C9 | *Gl. irregulare* | Reitz | 2268 | 99 | 97.39 | 4212 | AY598702.2 |
| CN-Oom00D1 | *Gl. irregulare* | Reitz | 1491 | 100 | 95.84 | 4212 | AY598702.2 |
| CN-Oom00D2 | *Gl. irregulare* | Bothaville | 1670 | 100 | 98.83 | 983 | HQ643622.1 |
| CN-Oom00D3 | *Gl. ultimum* | Schwiezer-Reneke | 1594 | 100 | 99.66 | 915 | MK794790.1 |
| CN-Oom00D4 | *Gl. ultimum* | Bothaville | 2028 | 100 | 97.89 | 4113 | AY598657.2 |
| CN-Oom00D5 | *Gl. irregulare* | Wesselbron | 1430 | 99 | 96.28 | 1171 | KX869911.1 |
| CN-Oom00D6 | *Gl. irregulare* | Wesselbron | 1572 | 99 | 98.03 | 4212 | AY598702.2 |
| CN-Oom00D7 | *Gl. irregulare* | Wesselbron | 1613 | 99 | 97.57 | 1171 | KX869911.1 |
| CN-Oom00D8 | *Gl. irregulare* | Hertzogville | 1334 | 100 | 95.73 | 4212 | AY598702.2 |
| CN-Oom00D9 | *Gl. irregulare* | Hertzogville | 1027 | 100 | 96.51 | 4212 | AY598702.2 |
| CN-Oom00E1 | *Gl. irregulare* | Hertzogville | 1261 | 87 | 96.36 | 1031 | KU211361.1 |
| CN-Oom00E2 | *Gl. ultimum* | Bothaville | 1738 | 99 | 92.93 | 4113 | AY598657.2 |
| CN-Oom00E3 | *Gl. ultimum* | Bothaville | 1482 | 100 | 94.20 | 4113 | AY598657.2 |
| CN-Oom00E4 | *Gl. irregulare* | Bothaville | 2239 | 99 | 96.94 | 4212 | AY598702.2 |
| CN-Oom00E5 | *Gl. irregulare* | Bothaville | 656 | 100 | 98.51 | 4212 | AY598702.2 |
| CN-Oom00E6 | *Gl. irregulare* | Bothaville | 634 | 100 | 98.51 | 4212 | AY598702.2 |
| CN-Oom00E7 | *Gl. ultimum* | Bothaville | 1735 | 99 | 92.93 | 4113 | AY598657.2 |
| CN-Oom00E8 | *Gl. irregulare* | Bothaville | 651 | 99 | 98.64 | 4212 | AY598702.2 |
| CN-Oom00E9 | *Gl. ultimum* | Bothaville | 1728 | 99 | 92.93 | 4113 | AY598657.2 |
| CN-Oom00F1 | *Gl. ultimum* | Bothaville | 1441 | 100 | 100 | 840 | MT177229.1 |
| CN-Oom00F2 | *Gl. irregulare* | Bothaville | 1458 | 99 | 99.02 | 866 | MT819402.1 |
| CN-Oom00F3 | *Gl. irregulare* | Bothaville | 1074 | 100 | 97.03 | 4212 | AY598702.2 |
| CN-Oom00F4 | *Gl. irregulare* | Schwiezer-Reneke | 2194 | 100 | 97.33 | 4212 | AY598702.2 |
| CN-Oom00F5 | *Gl. irregulare* | Bothaville | 1724 | 99 | 99.37 | 1026 | KU210458.1 |
| CN-Oom00F6 | *Gl. irregulare* | Henneman | 660 | 92 | 96.95 | 1171 | KX869911.1 |
| CN-Oom00F7 | *Gl. irregulare* | Henneman | 1736 | 99 | 99.07 | 983 | HQ643622.1 |
| CN-Oom00F8 | *Gl. irregulare* | Bothaville | 1676 | 97 | 98.84 | 958 | MW025225.1 |
| CN-Oom00F9 | *Gl. irregulare* | Schwiezer-Reneke | 1483 | 99 | 99.04 | 938 | KU209362.1 |
| CN-Oom00G1 | *Gl. ultimum* | Bothaville | 1676 | 100 | 100 | 840 | MT177229.1 |
| CN-Oom00G2 | *Gl. irregulare* | Bothaville | 1703 | 99 | 99.06 | 1037 | KU211361.1 |
| CN-Oom00G3 | *Gl. irregulare* | Ottosdal | 1727 | 99 | 99.68 | 1035 | KU211360.1 |
| CN-Oom00G4 | *Gl. irregulare* | Schwiezer-Reneke | 1733 | 100 | 99.48 | 1035 | KU211360.1 |
| CN-Oom00G5 | *Gl. irregulare* | Bothaville | 1655 | 100 | 98.51 | 942 | MK326412.1 |
| CN-Oom00G6 | *Gl. ultimum* | Bothaville | 1348 | 100 | 100 | 840 | MT177229.1 |
| CN-Oom00G7 | *Gl. ultimum* | Bothaville | 1441 | 100 | 100 | 840 | MT177229.1 |
| CN-Oom00G8 | *Gl. ultimum* | Bothaville | 1222 | 100 | 100 | 840 | MT177229.1 |
| CN-Oom00G9 | *Gl. ultimum* | Bothaville | 1441 | 100 | 100 | 840 | MT177229.1 |
| CN-Oom00H1 | *P. torulosum* | Bothaville | 1456 | 99 | 99.25 | 1009 | MN901168.1 |
| CN-Oom00H2 | *P. torulosum* | Henneman | 1275 | 99 | 99.75 | 1009 | MN901168.1 |