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|------------------|---------------------|----------------------------|-----------|----------------------|-------------------------|-----------------------------|-----------|-------------------|--------------|-----------------------|-----------|
| 24 | <i>H. betae</i> | 23 | 44 | Fabaceae (15) | Leguminales | Dicotyledons-Lignosae | Schachtii | | | | |
| | | | | Apiaceae (1) | Umbellales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Brassicaceae (10) | Brassicales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Caryophyllaceae (3) | Caryophyllales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Chenopodiaceae ((4) | Chenopodiales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Lamiaceae (2) | Lamiales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Polygonaceae (2) | Polygonales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Rosaceae (1) | Rosales | Dicotyledons-Lignosae | Schachtii | | | | |
| | | | | Scrophulariaceae (3) | Personales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Solanaceae (2) | Solanales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Poaceae (1) | Graminales | Monocotyledons-Glumiflorae | Schachtii | | | | |
| 25 | <i>H. glycines</i> | 56 | 166 | Cucurbitaceae (2) | Cucurbitales | Dicotyledons-Lignosae | Schachtii | | | | |
| | | | | Fabaceae (143) | Leguminales | Dicotyledons-Lignosae | Schachtii | | | | |
| | | | | Malvaceae (1) | Malvales | Dicotyledons-Lignosae | Schachtii | | | | |
| | | | | Passifloraceae (1) | Passiflorales | Dicotyledons-Lignosae | Schachtii | | | | |
| | | | | Pedaliaceae (1) | Bignoniales | Dicotyledons-Lignosae | Schachtii | | | | |
| | | | | Brassicaceae (1) | Brassicales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Caryophyllaceae (1) | Caryophyllales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Chenopodiaceae (2) | Chenopodiales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Lamiaceae (1) | Lamiales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Polygonaceae (2) | Polygonales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Scrophulariaceae (1) | Personales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Solanaceae (4) | Solanales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Poaceae (6) | Graminales | Monocotyledons-Glumiflorae | Schachtii | | | | |
| | | | | 26 | <i>H. mediterraneae</i> | 16 | 20 | Anacardiaceae (3) | Sapindales | Dicotyledons-Lignosae | Schachtii |
| Apocynaceae (1) | Apocynales | Dicotyledons-Lignosae | Schachtii | | | | | | | | |
| Fabaceae (2) | Leguminales | Dicotyledons-Lignosae | Schachtii | | | | | | | | |
| Juglandaceae (1) | Juglandales | Dicotyledons-Lignosae | Schachtii | | | | | | | | |
| Moraceae (1) | Urticales | Dicotyledons-Lignosae | Schachtii | | | | | | | | |
| Oleaceae (1) | Loganiales | Dicotyledons-Lignosae | Schachtii | | | | | | | | |
| Rosaceae (4) | Rosales | Dicotyledons-Lignosae | Schachtii | | | | | | | | |
| Apiaceae (1) | Umbellales | Dicotyledons-Herbaceae | Schachtii | | | | | | | | |
| Brassicaceae (1) | Brassicales | Dicotyledons-Herbaceae | Schachtii | | | | | | | | |
| Solanaceae (3) | Solanales | Dicotyledons-Herbaceae | Schachtii | | | | | | | | |
| Poaceae (2) | Graminales | Monocotyledons-Glumiflorae | Schachtii | | | | | | | | |
| 27 | <i>H. schachtii</i> | 30 | 281 | | | | | Euphorbiaceae (1) | Euphorbiales | Dicotyledons-Lignosae | Schachtii |
| | | | | | | | | Fabaceae (33) | Leguminales | Dicotyledons-Lignosae | Schachtii |
| | | | | | | | | Rubiaceae (1) | Rubiales | Dicotyledons-Lignosae | Schachtii |
| | | | | Violaceae (1) | Violales | Dicotyledons-Lignosae | Schachtii | | | | |
| | | | | Vitaceae (1) | Rhamnales | Dicotyledons-Lignosae | Schachtii | | | | |
| | | | | Urticaceae (2) | Urticales | Dicotyledons-Lignosae | Schachtii | | | | |
| | | | | Aizoaceae (1) | Caryophyllales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Apiaceae (3) | Umbellales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Amaranthaceae (10) | Chenopodiales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Asteraceae (11) | Asterales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Boraginaceae (3) | Boraginales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Brassicaceae (92) | Brassicales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Caryophyllaceae (19) | Caryophyllales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Chenopodiaceae (42) | Chenopodiales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Geraniaceae (1) | Graminales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Lamiaceae (6) | Lamiales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Onagraceae (1) | Onagrales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Papaveraceae (2) | Rhoeadales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Phytolaccaceae (1) | Chenopodiales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Plantaginaceae (2) | Plantaginales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Polygonaceae (22) | Polygonales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Protulacaceae (2) | Caryophyllales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Ranunculaceae (2) | Ranales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Resedaceae (3) | Resedales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Scrophulariaceae (3) | Personales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Solanaceae (6) | Solanales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Tropaeolaceae (2) | Graminales | Dicotyledons-Herbaceae | Schachtii | | | | |
| | | | | Amaryllidaceae (1) | Amaryllidales | Monocotyledons-Corolliferae | Schachtii | | | | |
| | | | | Bromeliaceae (1) | Bromeliales | Monocotyledons-Calyciferae | Schachtii | | | | |
| | | | | Poaceae (6) | Leguminales | Monocotyledons-Glumiflorae | Schachtii | | | | |

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|----|----------------------|----|-----|----------------------|----------------|-----------------------------|--------------|
| 28 | <i>H. trifolii</i> | 46 | 110 | Cucurbitaceae (3) | Cucurbitales | Dicotyledons-Lignosae | Schachtii |
| | | | | Fabaceae (45) | Leguminales | Dicotyledons-Lignosae | Schachtii |
| | | | | Brassicaceae (10) | Brassicales | Dicotyledons-Herbaceae | Schachtii |
| | | | | Caryophyllaceae (23) | Caryophyllales | Dicotyledons-Herbaceae | Schachtii |
| | | | | Chenopodiaceae (9) | Chenopodiales | Dicotyledons-Herbaceae | Schachtii |
| | | | | Geraniaceae (1) | Personales | Dicotyledons-Herbaceae | Schachtii |
| | | | | Lamiaceae (3) | Lamiales | Dicotyledons-Herbaceae | Schachtii |
| | | | | Polygonaceae (9) | Polygonales | Dicotyledons-Herbaceae | Schachtii |
| | | | | Scrophulariaceae (2) | Personales | Dicotyledons-Herbaceae | Schachtii |
| | | | | Solanaceae (4) | Solanales | Dicotyledons-Herbaceae | Schachtii |
| | | | | Liliaceae (1) | Liliales | Monocotyledons-Corolliferae | Schachtii |
| 29 | <i>H. oryzae</i> | 17 | 19 | Malvaceae (1) | Malvales | Dicotyledons-Lignosae | Goettingiana |
| | | | | Fabaceae (5) | Leguminales | Dicotyledons-Lignosae | Goettingiana |
| | | | | Brassicaceae (1) | Brassicales | Dicotyledons-Herbaceae | Goettingiana |
| | | | | Solanaceae (3) | Solanales | Dicotyledons-Herbaceae | Goettingiana |
| | | | | Cyperaceae (1) | Cyperales | Monocotyledons-Glumiflorae | Goettingiana |
| | | | | Musaceae (1) | Zingiberales | Monocotyledons-Calyciferae | Goettingiana |
| | | | | Poaceae (7) | Leguminales | Monocotyledons-Glumiflorae | Goettingiana |
| 30 | <i>H. cruciferae</i> | 34 | 59 | Asteraceae (1) | Asterales | Dicotyledons-Herbaceae | Goettingiana |
| | | | | Brassicaceae (51) | Brassicales | Dicotyledons-Herbaceae | Goettingiana |
| | | | | Chenopodiaceae (1) | Chenopodiales | Dicotyledons-Herbaceae | Goettingiana |
| | | | | Lamiaceae (4) | Lamiales | Dicotyledons-Herbaceae | Goettingiana |
| | | | | Poaceae (2) | Graminales | Monocotyledons-Glumiflorae | Goettingiana |
| 31 | <i>H. mothi</i> | 4 | 4 | Solanaceae (1) | Solanales | Dicotyledons-Herbaceae | Cyperi |
| | | | | Amoryllidaceae (1) | Amoryllidales | Monocotyledons-Corolliferae | Cyperi |
| | | | | Cyperaceae (1) | Cyperales | Monocotyledons-Glumiflorae | Cyperi |

Table 4: Host -race relationship of Heterodera species

| Heterodera species | Host species | Race designation |
|-----------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <i>H. avenae</i> | <i>Avena sativa</i> | Algeria, Ha 11 (Group 1), Ha 12 (Group 2), Ha 13 (Group 3), Ha 31 (Group 1), Ha 41 (Group 1), Ha 51 (Group 1), Ha 61 (Group 1) |
| | | Ha 12, Ha 13, Ha 21? Saudi, Ha 22, Ha 23, Ha 31, H |
| | | Teruel, and Toledo |
| | | All races reported in A. Sativa except Ha 31 (Group 1), Ha 21 |
| | <i>Hordeum vulgare</i> | All races reported in A. Sativa plus 1, 2, Dutch and Pathotype |
| | <i>Hordeum pallidum</i> | Ha 31 (Group 1), Ha 12, Ha 21, Ha 31, Ha 51, Ha 61 and Ha 71 |
| | <i>Triticum aestivum</i> | All races reported as A. Sativa except Ha 31 (Group 1) Ha 51 |
| | <i>Triticum durum</i> | Ha 13 (Group 3), 22 Group 2), Ha 41 (Group 1), ha 71 (Group) ha41, Ha 71 and Ha 81 |
| | <i>Triticum longissimum</i> | Algeria and Syria |
| | <i>Triticum tauschii</i> | Algeria and Syria |
| | <i>Triticum umbellatum</i> | Algeria and Syria |
| | <i>Triticum variabile</i> | Algeria and Syria |
| | <i>Triticum ventricosum</i> | Algeria and Syria |
| | <i>Secale cereal</i> | Seville, Teruel and Toledo |
| <i>H. filipjevi</i> | <i>Avena sativa</i> | India |
| | <i>Hordeum vulgare</i> | India |
| | <i>Triticum aestivum</i> | India |
| | <i>Triticum longissimum</i> | India |
| | <i>Triticum tauschii</i> | India |
| | <i>Triticum umbellatum</i> | India |
| | <i>Triticum ventricosum</i> | India |
| <i>H. glycines</i> | <i>Glycine max</i> | 1, 2, 2a, 2b, 3,4,5,6,9, Race 1, Race 2, race 3, Race 4, Race 5 |
| | <i>Phaseolus vulgaris</i> | HG Type 0, Race 2, Race 3, Race, race 5, race 14 |
| <i>H. latipons</i> | <i>Avena sativa</i> | Syria |
| | <i>Avena sterilis</i> | Syria |
| | <i>Hordeum vulgare</i> | Syria |
| | <i>Triticum aestivum</i> | Syria |
| | <i>Triticum tauschii</i> | Syria |
| | <i>Triticum umbellatum</i> | Syria |
| | <i>Triticum variabile</i> | Syria |
| <i>Triticum ventricosum</i> | Syria | |