| Study                          | Helminth                | Allograft model | Live infection or product | Parasite burden Administration route Time of administration Life stage | Sample Size | Primary Outcome                                                                 | Secondary Measurement                  |
|-------------------------------|-------------------------|-----------------|---------------------------|--------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------|----------------------------------------|
| **Helminth Genus: Echinococcus** |                         |                 |                           |                                                                          |             |                                                                                   |                                        |
| Ai Erkien et al. (2012) (32)  | *Echinococcus multilocularis* | Rat heart       | Live                      | 20% larval suspension IP injection Not defined Larvae                     | 12          | Graft survival; cessation of cardiac beating                                      | 1. Histopathology                      |
|                               |                         |                 |                           |                                                                          |             | 2. Immunohistochemistry                                                            |                                        |
|                               |                         |                 |                           |                                                                          |             | 3. Flow cytometry                                                                 |                                        |
| Li et al. (2011) (36)         | *Echinococcus multilocularis* | Rat liver       | Live                      | 20% larval suspension IP injection Not defined Larvae                     | 16          | Graft survival; necrosis                                                          | 1. Histopathology                      |
|                               |                         |                 |                           |                                                                          |             | 2. Flow cytometry                                                                 |                                        |
|                               |                         |                 |                           |                                                                          |             | 3. PCR                                                                          |                                        |
|                               |                         |                 |                           |                                                                          |             | 4. ELISA                                                                        |                                        |
| **Helminth Genus: Schistosoma** |                         |                 |                           |                                                                          |             |                                                                                   |                                        |
| Araujo et al. (1977) (24)     | *Schistosoma mansoni*   | Mouse skin      | Live                      | 80 cercariae IP injection 30 days prior Cercariae                         | 25          | Graft survival; bleeding and shrinking of graft and detachment of border noted as rejection | None                                    |
| Dutta et al. (2010) (33)      | *Schistosoma mansoni*   | Mouse non-vascularised Heart | Product; recombinant protein | 50µg Lacto-N-fucopentaose III SC injection 1 day prior and 4 days post-transplant Product | 10          | Graft survival; cessation of cardiac beating                                      | 1. Flow cytometry                      |
|                              | *Schistosoma mansoni*   | Mouse vascularised Heart | Product; recombinant protein | 50µg Lacto-N-fucopentaose III SC injection 1 day prior and 4 days post-transplant Product | 5           | Graft survival; cessation of cardiac beating                                      | 1. Flow cytometry                      |
| **Helminth Genus: Paragonimus** |                         |                 |                           |                                                                          |             |                                                                                   |                                        |
| Hamajima et al. (1994) (29)   | *Paragonimus westermani* | Mouse skin      | Product; soluble worm extract | 30µg/ kg IP injection 4 days prior Neutral thiol protease (NTP) from larvae | 6           | Graft survival; rejection classified as 85% of more induration and no hair growth | None                                    |
| **Helminth Genus: Nippostrongylus** |                         |                 |                           |                                                                          |             |                                                                                   |                                        |
| Ledingham et                  | *Nippostrongylus*       | Rat kidney      | Live                      | 3500 larvae                                                              | Not         | Graft survival;                                                                  | 1. Histopathology                      |
| Study | Helminth Genus | Species | Organ | Route of Infection | Product | Days post-transplant | Graft Survival | Other Observations | Notes |
|-------|----------------|---------|-------|---------------------|---------|---------------------|----------------|-------------------|-------|
| al. (1996) (35) | *Nippostrongylus brasiliensis* | Rat kidney | Product; soluble worm extract | SC injection 4 days prior Larval | 200 worm equivalents SC injection 4 days prior Extract | 6 | Graft survival; increasing signs of morbidity due to kidney failure | 2. Immunohistochemistry 3. Flow cytometry |
| Liwski et al. (2000) (34) | *Nippostrongylus brasiliensis* | Mouse heart | Live | SC injection 4 days prior Larval | 800 larvae SC injection 4 days prior Extract | 5 | Graft survival; heart function | 1. ELISA – cytokines 2. FACS 3. Intracellular IL-4 4. Cytotoxic T cell activity |
| Alkarmi et al. (1995)(23) | *Trichinella spiralis* | Mouse skin | Live | Oral inoculation 3 days post-transplant Larval | 300 larvae Oral inoculation 3 days post-transplant Larval | 50 | Graft survival; detachment of graft | None |
| | *Trichinella pseudospiralis* | Mouse skin | Live | Oral inoculation 3 days post-transplant Larval | 300 larvae Oral inoculation 3 days post-transplant Larval | 50 | Graft survival; detachment of graft | None |
| | *Trichinella spiralis* | Mouse skin | Product; soluble worm extract | IP injection Various days post-transplant Extract | 50 µg IP injection Various days post-transplant Extract | 10 | Graft survival; detachment of graft | None |
| | *Trichinella pseudospiralis* | Mouse skin | Product; soluble worm extract | IP injection Various days post-transplant Extract | 50 µg IP injection Various days post-transplant Extract | 10 | Graft survival; detachment of graft | None |
| | *Trichinella spiralis* | Mouse skin | Product; native secretions from worm | IP injection Various days post-transplant Native secretions | 50 µg IP injection Various days post-transplant Native secretions | 10 | Graft survival; detachment of graft | None |
| | *Trichinella pseudospiralis* | Mouse skin | Product; native secretions from worm | IP injection Various days post-transplant Native secretions | 50 µg IP injection Various days post-transplant Native secretions | 10 | Graft survival; detachment of graft | None |
| Barriga et al. (1978) (25) | *Trichinella spiralis* | Mouse skin | Live | 45 larvae Oral inoculation 29 days prior Larval | 4 | Graft survival; 1x – mild inflammation 2x – intense inflammation 3x – necrosis 4x – sloughing | None |
|---------------------------|------------------------|------------|------|-----------------------------------------------|---|-----------------------------------------------------------------|------|
| *Trichinella spiralis*    | Mouse skin             | Product; soluble worm extract | 0.2mg TsE protein IP injection 29 days prior Product | 4 | Graft survival; 1x – mild inflammation 2x – intense inflammation 3x – necrosis 4x – sloughing | None |
| Chernyakhovs kaya et al (1972) (26) | *Trichinella spiralis* | Mouse skin | Live | 70-90 larvae Oral Inoculation 27 days prior Larval | N/A | Graft survival; rejection noted as oedema and haemorrhages on the surface of the graft. Complete necrosis noted as destruction of graft epithelium and appearing scar | None |
| Chimyshkyan et al. (1976) (27) | *Trichinella spiralis* | Mouse skin | Live | 70-90 larvae Oral Inoculation Not defined Larval | N/A | Graft survival; necrosis | None |
| Deng et al. (2016) (37)   | *Trichinella spiralis* | Mouse heart | Live | 300 larvae Oral Inoculation 28 days prior Larval | 5 | Graft survival; rejection classified as cessation of cardiac beating 1. Histopathology 2. Flow cytometry 3. Luminex - cytokines | |
| *Trichinella spiralis*    | Mouse skin             | Live | 300 larvae Oral Inoculation 28 days prior Larval | 5 | Graft survival; rejection defined as >80 % necrosis of the transplanted skin surface as well as the appearance of desiccation and shrinkage. 1. Histopathology 2. Flow cytometry 3. Luminex - cytokines | |
| Faubert et al. (1975) (28) | *Trichinella spiralis* | Mouse skin | Live | Serum from mice infected with 100 larvae Oral inoculation Up to 3 days prior Serum | 10 | Graft survival; oedema, necrosis | None |
| Study                        | Host       | Treatment | Technique | Timing       | Larval Count | Outcome Description                                      | Notes |
|------------------------------|------------|-----------|-----------|--------------|--------------|-----------------------------------------------------------|-------|
| Trichinella spiralis         | Mouse skin | Live      | Oral inoculation | 30 days prior | 500 larvae   | Graft survival; oedema, necrosis                           | None  |
| Svet-Moldavsky et al. (1969) | Mouse skin | Live      | Oral inoculation | Unclear      | 75-85 larvae | Graft survival; oedema, necrosis                           | None  |
| Trichinella spiralis         | Mouse skin | Live      | Oral inoculation | 23 days prior | 80-100 larvae | Graft survival; percentage of area of necrosis           | None  |
| Szkudlinski et al. (1997)    | Mouse skin | Live      | IP injection   | 23 days prior | 80-100 larvae | Graft survival; percentage of area of necrosis           | None  |
| Trichinella pseudospiralis   | Mouse skin | Live      | IP injection   | 23 days prior | 80-100 larvae | Graft survival; percentage of area of necrosis           | None  |
| Trichinella spiralis         | Mouse skin | Product; soluble worm extract | SC injection | 23 days prior | Extract isolated from 100mg larvae | Graft survival; percentage of area of necrosis | None  |
| Trichinella pseudospiralis   | Mouse skin | Product; soluble worm extract | SC injection | 23 days prior | Extract isolated from 100mg larvae | Graft survival; percentage of area of necrosis | None  |