Parasitic Nematodes of Veterinary Significance

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| SUPERFAMILY | **TYPICAL FEATURES** |
| Bursate nematodes | |
| Trichostrongyloides  *Trichostrongylus*,  *Ostertagia*,  *Dictyocaulus*,  *Haemonchus* etc | Buccal capsule small.  Direct life cycle; infection by L3  http://en.wikipedia.org/wiki/Trichostrongylus  http://cal.vet.upenn.edu/projects/merialsp/Trichosp/trich\_6.htm  http://cal.vet.upenn.edu/projects/merialsp/trichosp/trich\_10.htm  http://cal.vet.upenn.edu/projects/parasit06/life%20cycles/haemonc/path.htm |
| Strongyloidea  *Strongylus*, *Ancyclostoma*, *Syngamus*, etc. | Buccal capsule well developed; leaf crowns and teeth usually present.  Direct life cycle; infection by L3  http://www.atlanticveterinary.net/encyclopedia/encycEntry88998899.html  http://en.wikipedia.org/wiki/Ancylostoma |
| Metastrongyloidea  *Metastrongylus*, *Muellerius*, *Protostrongylus*, etc. | Buccal capsule small.  Indirect life cycle; infection by L3  http://parasitipedia.net/index.php?option=com\_content&view=article&id=2617&Itemid=2896  http://www.goatbiology.com/animations/muellerius.html  http://www.merial.com.au/sheep/disease\_information/Pages/proto.aspx |
| Non- bursate nematodes | |
| Rhabditoidea  *Strongyloides*, *Rhabditis*, etc. | Very small worms; small buccal capsule.  Free living and parasitic generations.  Direct life cycle, infection by L3  http://www.wormbook.org/chapters/www\_genomesStrongyloides/genomesStrongyloides.html |
| Ascaroidea  *Ascaris*, *Toxocara*, *Parascaris* etc. | Large white worms  Direct life cycle, infection by L2 in egg  http://en.wikipedia.org/wiki/Ascaris  http://en.wikipedia.org/wiki/Toxocariasis  http://en.wikivet.net/Parascaris\_equorum |
| Oxyuroidea  *Oxyuris* etc | Female has long pointed tail  Direct life cycle, infection by L3 in egg  http://poolhousevets.com/Equine/oxyuris-a-pain-in-the-backside/ |
| Spiruroidea  *Spirocerca*, *Habronema*, *Thelazia* etc | Spiral tail in male.  Indirect life cycle, infection by L3 from insect  http://animaldiversity.ummz.umich.edu/accounts/Spirocerca\_lupi/  http://en.wikipedia.org/wiki/Habronema  http://en.wikipedia.org/wiki/Thelazia |
| Filaroidea  *Dirofilaria* etc. | Long thin worms  Indirect life cycle, infection by L3 from insect  http://cal.vet.upenn.edu/projects/dxendopar/parasitepages/filariidsandspirurids/d\_immitis.html |
| Trichuroidea  *Trichuris*, *Capillaria*, *Trichinella* etc | Whip like or hair like worms.  Life cycle direct or indirect, infection by L1  http://en.wikipedia.org/wiki/Trichuris  http://en.wikipedia.org/wiki/Capillaria\_%28nematode%29  http://www.trichinella.org/ |
| Dictophymatoidea  *Dioctophyma* etc | Very large worms  Indirect life cycle, infection by L3 in aquatic annelids.  http://en.wikipedia.org/wiki/Dioctophyme\_renale |

Link for overview of life cycle

http://cal.vet.upenn.edu/projects/merial/Nematodes/nems\_5.htm

Link for overview of nematodes, and how they are USED for agricultural control of pests

http://www.biocontrol.entomology.cornell.edu/pathogens/nematodes.html