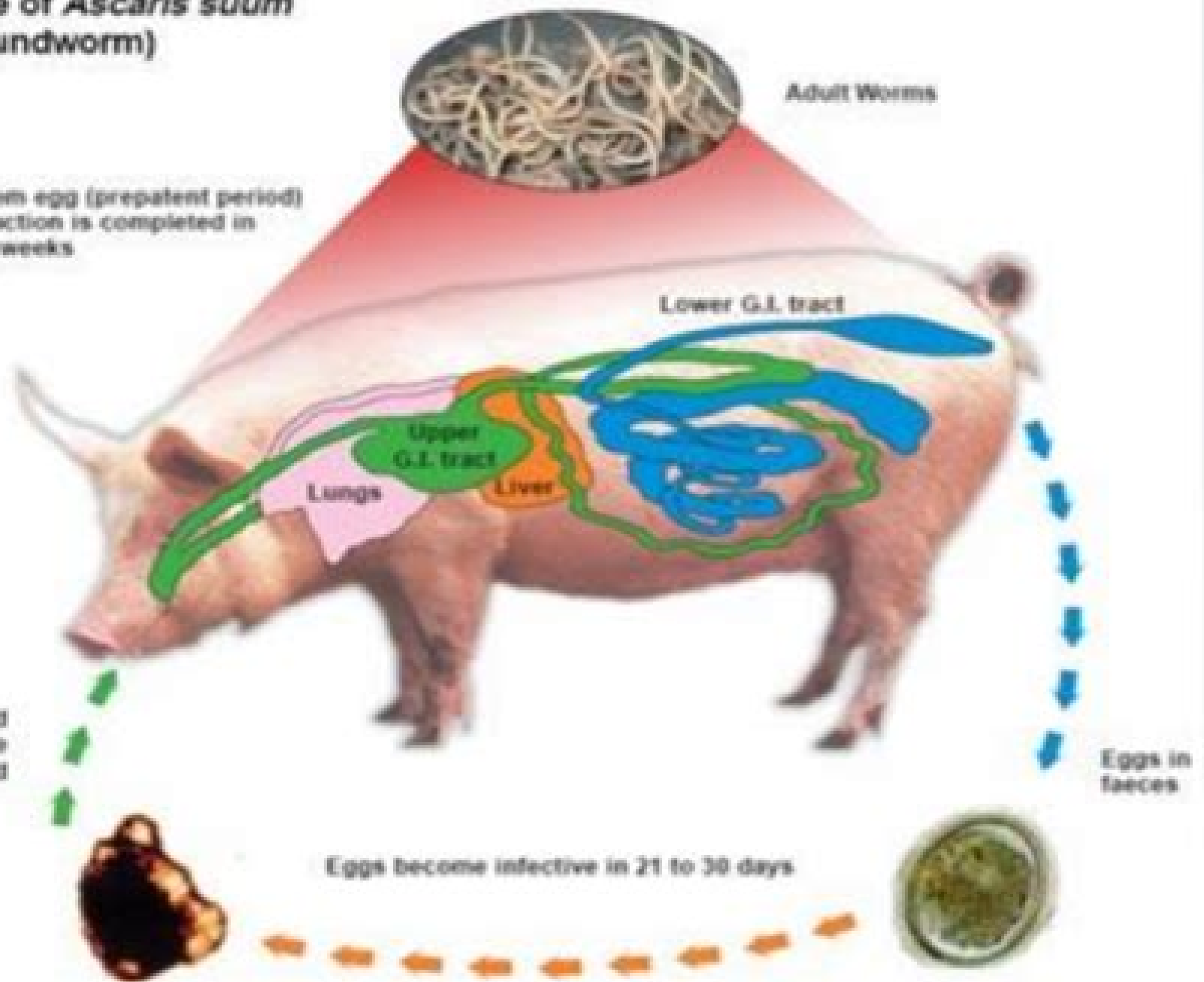


Life cycle of *Ascaris suum* (large roundworm)

The cycle from egg (prepatent period) to egg production is completed in about 6 to 8 weeks



Ascaris The Neglected Parasite Chapter 14 Impact Of Ascaris Suum In Livestock

**Aaron R. Jex, Shiping Liu, Bo Li, Neil D.
Young, Ross S. Hall, Yingrui Li, Peter
Geldhof, Peter Nejsun, Paul W.
Sternberg, Jun Wang, Huanming
Yang, Robin B. Gasser**

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Ascaris: The Neglected Parasite Stig Milan Thamsborg, Peter Nejsum, Helena Mejer, 2013-05-09 The roundworm *Ascaris suum* is a highly prevalent intestinal parasite of pigs worldwide and the infection may have low to moderate pathogenic effects on health and productivity. Besides these direct effects there may be indirect effects on enhanced susceptibility or pathogenicity to bacterial or viral infections related to the migratory and immune modulatory capacity of *A. suum*. Losses due to ascariasis in pigs can thus be summarized as 1 farm economic losses due to clinical effects although limited reduced growth and feed conversion efficiency and costs of control e.g. use of anthelmintics 2 abattoir operator losses due to condemnation or downgrading of livers and lower product quality and 3 potential interference with vaccinations and higher risk of co-infections. Apart from the cost of liver condemnations that can be extrapolated from available data it is difficult to quantify losses.

Ascaris: The Neglected Parasite Celia V. Holland, Jerzy M. Behnke, Christina Dold, 2013-05-09 Larval ascariasis is much less well understood than adult worm infection. Part of the explanation for this is the difficulty in assessing the impact of larval infections in human subjects. In contrast, adult worms can be counted after post-chemotherapeutic expulsion or additionally eggs voided in host feces can be quantified as an indirect measure of infection intensity. Furthermore, respiratory and hepatic disease which may be associated with transient passage of larvae through these organs can be either non-specific or cryptic, making *Ascaris* specific diagnosis through clinical signs of infection challenging. The influence of early infection on parasite establishment and host immunity is recognized as important but it remains challenging to unravel the complexities of the relationship. Both pigs as natural hosts of *Ascaris suum* and a range of abnormal hosts have been utilized to investigate larval migration. Few if any of these model systems have enabled clarification of the basis of variation in susceptibility and resistance to larval migration and accumulation in the liver and lungs. In this chapter we document the literature on larval ascariasis with a particular emphasis on studies utilizing mice because mice are now developing as useful model systems for the study of early *Ascaris* infection, the migratory path and its duration being similar to that of pigs. We describe a mouse model of early *Ascaris* infection that mimics the extremes of the host phenotype displayed in the aggregated distribution of adult worms in human and pig populations, outline the existing evidence for the role of the liver in susceptibility to larval ascariasis and discuss future directions for the use of this model system.

Ascaris: The Neglected Parasite Aaron R. Jex, Shiping Liu, Bo Li, Neil D. Young, Ross S. Hall, Yingrui Li, Peter Geldhof, Peter Nejsum, Paul W. Sternberg, Jun Wang, Huanming Yang, Robin B. Gasser, 2013-05-09 Parasitic nematodes cause substantial morbidity and mortality in animals and people globally and major losses to food production annually. *Ascaris* is among the commonest geohelminths of swine and people worldwide and causes major disease and socioeconomic losses particularly in developing countries. The control of ascariasis has become a global health and welfare priority but current treatment programs carry a significant risk of inducing anthelmintic resistance. Therefore, there is a need to work toward the

sustainable control of *Ascaris ascariasis* built on a solid understanding of its molecular biology and genetics Recently we reported the 273 megabase Mb draft genome of *Ascaris suum* sequenced from the reproductive tract of a single adult female worm and explored transcription in different organs stages and both sexes of this nematode using advanced sequencing and computer technologies We characterized key genes and biological pathways linked to the parasite s migration in the host and its immunobiology reproduction and development We also predicted and prioritized drug targets in *A suum* providing a basis for discovering new groups of nematocides The present chapter provides an account of these recent advances describes new methodologies established and emphasizes prospects for profound investigations into the comparative genomics genetics evolution immunobiology epidemiology and ecology of *Ascaris* from both pig and human hosts as well as for the development of new interventions against ascariasis and other helminthiasis

Interplay of Infection and Microbiome

Wilhelmina May Huston, Gilda Tachedjian, Peter Timms, 2020-08-06 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

Ascaris

Celia Holland, 2013-05-09 This book tackles a number of different perspectives concerning the parasitic helminth *Ascaris* both in animals and in humans and the disease known as ascariasis It seeks to identify interesting exciting and novel aspects which will interest readers from a broad range of disciplines Over a quarter of the world s population are infected with the human roundworm and the equivalent in pigs is equally ubiquitous Both contribute to insidious and chronic nutritional morbidity and this has been quantified in humans as disability adjusted life years approximating 10.5 million *Ascaris* larvae develop in host parenteral tissues and the resultant pathology has been condemnation Ascariasis despite its staggering global prevalence and the sheer numbers of people it infects remains a classic neglected disease However renewed interest in the consequences of early infection with worms from the perspective of immune modulation co infections and the development of allergy further enhances the relevance of these parasites Brings together a wide range of topics and approaches and recent comprehensive and progressive research concerning the neglected parasite *Ascaris* Provides a blueprint of how a single parasite entity can stimulate interest in basic biology clinical science veterinary science public health and epidemiology Presents a wealth of new insights given that a book on this parasite has not been published for over 20 years 16 chapters from a range of top authors from around the world

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, 2024-03-06 Advances in Parasitology Volume 123 the latest release in this ongoing series includes medical studies of parasites of major influence along with reviews of more traditional areas such as zoology taxonomy and life history Informs and updates on all the latest developments in the field of

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