Understanding the non-thyroidal illness syndrome from in vivo and in vitro studies

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Species identification of Chlamydia isolates by analyzing restriction fragment length polymorphism of the 16S-23S rRNA spacer region.

Both immunisation with a formalin-inactivated respiratory syncytial virus (RSV) vaccine and a mock antigen vaccine induce severe lung pathology and a Th2 cytokine profile in RSV-challenged mice.

Barends M, Boelen A, de Rond L, Kwakkel J, Bestebroer T, Dormans J, Neijens H, Kimman T.
Influence of respiratory syncytial virus infection on cytokine and inflammatory responses in allergic mice.

Boelen A, Kwakkel J, Barends M, de Rond L, Dormans J, Kimman T.
Effect of lack of Interleukin-4, Interleukin-12, Interleukin-18, or the Interferon-gamma receptor on virus replication, cytokine response, and lung pathology during respiratory syncytial virus infection in mice.

Barends M, Boelen A, de Rond L, Dormans J, Kwakkel J, van Oosten M, Neijens HJ, Kimman TG.
Respiratory syncytial virus enhances respiratory allergy in mice despite the inhibitory effect of virus-induced interferon-gamma.

Contribution of Interleukin-12 to the pathogenesis of Nonthyroidal Illness

Boelen A, Kwakkel J, Thijsse-Timmer DC, Alkemade A, Fliers E, Wiersinga WM
Simultaneous changes in central and peripheral components of the hypothalamus-pituitary-thyroid axis in lipopolysaccharide (LPS) induced acute illness in mice
Interleukin-18, a proinflammatory cytokine, contributes to the pathogenesis of non-thyroidal illness mainly via the central part of the hypothalamus-pituitary-thyroid axis

Enhanced viral clearance in IL-18 deficient mice after pulmonary infection with influenza A virus.

Induction of type 3 deiodinase activity in inflammatory cells of mice with chronic local inflammation

Kwakkel J, Wiersinga WM, Boelen A
Differential involvement of NFkB and AP-1 pathways in the IL-1β mediated decrease of Deiodinase type 1 and Thyroid Hormone Receptor β1 mRNA
*Journal of Endocrinology*, 2006 Apr; 189(1): 37-44

Boelen A, Kwakkel J, Vos X, Fliers E, Wiersinga WM
Differential effects of leptin and refeeding on the fasting-induced decrease of pituitary type 2 deiodinase and thyroid hormone receptor beta2 mRNA expression in mice.
*Journal of Endocrinology*, 2006 Aug; 190(2): 537-44

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Chronic local inflammation in mice results in decreased TRH and type 3 Deiodinase mRNA expression in the paraventricular nucleus which cannot be attributed to diminished food intake as a result of illness
*Journal of Endocrinology*, 2006, Dec; 191: 707-714
Kwakkel J, Wiersinga WM, Boelen A
Interleukin-1β modulates endogenous TRα gene transcription in liver cells

Kwakkel J, Chassande O., van Beeren H.C., Wiersinga W.M. and Boelen A.
Lacking TRβ gene does not influence LPS-induced changes in peripheral thyroid hormone metabolism.
Journal of Endocrinology 2008 April;197(1) 151–158

Type 3 deiodinase is highly expressed in infiltrating neutrophilic granulocytes in response to acute bacterial infection.
Thyroid 2008 18: 1095-1103

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TRβ mediates acute illness-induced alterations in central thyroid hormone metabolism

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Impaired bacterial clearance in type 3 deiodinase deficient mice infected with Streptococcus pneumoniae.

Kwakkel J, van Beeren HC, Platvoet-ter Schiphorst MC, Ackermans MT, Fliers E, Wiersinga WM, Boelen A
Skeletal muscle deiodinase type 2 regulation during illness in mice

Kwakkel J, Chassande O., van Beeren H.C., Fliers E., Wiersinga W.M. and Boelen A.
Thyroid Hormone Receptor α modulates LPS-induced changes in peripheral thyroid hormone metabolism
Endocrinology 2010, in press.