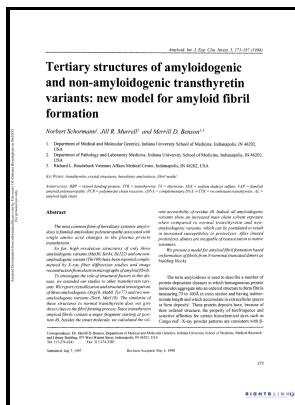


# Molecular cloning of human transthyretin cDNA and studies on the biosynthesis and subunit assembly of transthyretin

University of Birmingham - Transcriptional Profiling of the Chick Pineal Gland, a Photoreceptive Circadian Oscillator and Pacemaker



## Description:

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Tags: #Characterization #of# a #transthyretin #(prealbumin) #variant #associated #with #familial #amyloidotic #polyneuropathy #type #II # (Indiana/Swiss).

## Characterization of a transthyretin (prealbumin) variant associated with familial amyloidotic polyneuropathy type II (Indiana/Swiss).

First, the entire melatonin generating enzymatic cascade was represented on the array, as were many chick orthologs associated with circadian clock function clock genes. Transthyretin was found to interact with the cytoplasmic tail of LAMP-1.

### Transthyretin interacts with the lysosome

The pineal gland is best known for its production of this hormone.

## Characterization of a transthyretin (prealbumin) variant associated with familial amyloidotic polyneuropathy type II (Indiana/Swiss).

It is thought that this may be the result of the interaction of this LAMP-1 with other surface proteins on the HT1080 cells.

### Transthyretin interacts with the lysosome

Randomly primed fluorescent probes were produced from aRNA samples using Genisphere 3DNA Array 350RP expression array detection kit. Both the LAMP-1 Total and the LAMP-1 Tail assays gave near linear responses up to 2.

## Cell and Molecular Biology of Transthyretin and Thyroid Hormones

These processes may serve as springboards for further physiological research on the holistic avian and vertebrate circadian organization. . These circadian rhythms and their phases were confirmed by both Northern analysis , C and D and ISH data not shown.

## **Transcriptional Profiling of the Chick Pineal Gland, a Photoreceptive Circadian Oscillator and Pacemaker**

Thus, the data is reported for each time point relative to the abundance of the same gene at midnight ZT-18. The final wash was at 42 C in 0. The stress response cluster includes immune function genes, which under LD and DD had the highest number of oscillating pineal transcripts, 40 and 16, respectively.

### **Transthyretin interacts with the lysosome**

Before hybridization, the dried spots were hydrated gently over a steaming water bath, snap dried, and the DNA was UV cross-linked using a Stratalinker Stratagene. Perhaps, transthyretin binds melatonin in a heretofore-unrecognized release mechanism for melatonin.

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