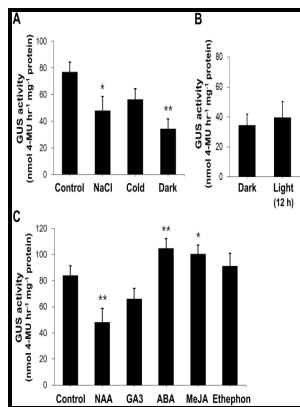


# Molecular cloning, characterisation and manipulation of the Rubber Elongation Factor gene from Hevea brasiliensis

University of Birmingham - Enzymatic Aspects of Isoprenoid Chain Elongation



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Venkatachalam Perumal

The incubation inhibited the IgE binding of the serum obtained from patients to the coated DME or recombinant TEF 2 in a dose-dependent manner. Presence of signal peptides in 11 out of the 16 members indicates their involvement in vacuolar roles during defense responsiveness.

## Characterization of rubber particles and rubber chain elongation in Taraxacum koksaghyz

Class II chitinases The sole class II chitinase of rubber tree identified is a 30. Glycerin was added to a final concentration of 50%. All participants, including children approved by legal guardians, provided written informed consent to participate in the present study.

## Enzymatic Aspects of Isoprenoid Chain Elongation

FKZ 0313712 , by EVONIK Industries AG, by the Hans-Fischer Gesellschaft Munich to WE , by the Deutsche Bundesstiftung Umwelt to ML and the federal state North-Rhine Westphalia co-financed by the European Union. Our results not only extend our understanding of the complex molecular events involved in TPD but also will be useful for developing effective measures to control TPD of rubber trees.

## Gene synthesizing, expression and immunogenicity characterization of recombinant translation elongation factor 2 from Dermatophagoides farinae

Singh AP, Wi SG, Chung GC, Kim YS, Kang H 2003 The micromorphology and protein characterization of rubber particles in Ficus carica, Ficus benghalensis and Hevea brasiliensis. After the electrophoresis, the gel was stained by ethidium bromide, and images were captured under a UV lamp with a wavelength of 302 nm. Among the identified rubber latex proteins, REF, known as Hev b1, facilitates the elongation of the CIPT molecule to the isoprene subunit.

## The Winnower

The results were classified as follows: The prick spot became a wheal and flea surrounding the wheal, it was positive + ; 3+, the response was the same as or stronger than that of the histamine control; 2+, the response was weaker than that of the histamine control but stronger than that of the negative control; 1+, the response was significantly weaker than that of the histamine control but slightly stronger than that of the negative control; negative, no response. The number of TPD-related genes with consistent or inconsistent expression between our study and that of Liu et al. Relative activities are presented as the mean of three independent determinations ± SD.

## Venkatachalam Perumal

Accumulation of REF mRNA transcripts was significantly higher in latex cells compared to other cells of seedlings and mature Hevea trees.

## **micromorphology and protein characterization of rubber particles in *Ficus carica*, *Ficus benghalensis* and *Hevea brasiliensis***

The fluorescence signals for mTq2-fused HRBP or REF showed network-like patterns, which almost overlapped with an mCherry mChe -HDEL ER marker , indicating that these proteins were predominantly localized at the ER.

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