

## α-Gal and Anti-Gal: α1,3-Galactosyltransferase, α-Gal Epitopes, and the Natural Anti-Gal Antibody Subcellular Biochemistry (Hardback)

## By -

Springer Science+Business Media, United States, 1999. Hardback. Condition: New. 1999 ed.. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. It has been 15 years since the first report on the isolation of anti-Gal from human serum and the demonstration that this antibody is the most prevalent antibody in humans (Galili et al. , ]. Exp. Med. 160: 1519, 1984). Subsequent interdisciplinary studies in immunology, carbohydrate biochemistry, molecular biology, and evolution demonstrated the highly restricted specificity of anti-Gal for the carbohy- drate epitope Gal al-3Galpl-4GlcNAc-R, (termed here the a-gal epitope), the unprecedented evolutionary pattern of distribution of a-gal and anti-Gal in mam- mals, and explained the evolution of this antigen and antibody by analysis of the a 1,3galactosyltransferase gene, the gene that encodes the enzyme that synthesizes the a-gal epitope. These studies have suggested that a major selection process that occurred in the course of evolution of ancestral Old World primates resulted in the inactivation of the a1,3galactosyltransferase gene and the subsequent appearance of anti-Gal in these primates. Other studies in immunoparasitology have demon- strated the possible physiologic significance of anti-Gal in protection against cer- tain parasitic infections. Major scientific attention was focused on a-gal...



## Reviews

It in a single of my favorite pdf. Yes, it is engage in, still an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.

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