

VOL. 143 NO. 6 JUNE 2008

JOBIAO 143 (6) 719–847 (2008)

THE JOURNAL OF BIOCHEMISTRY

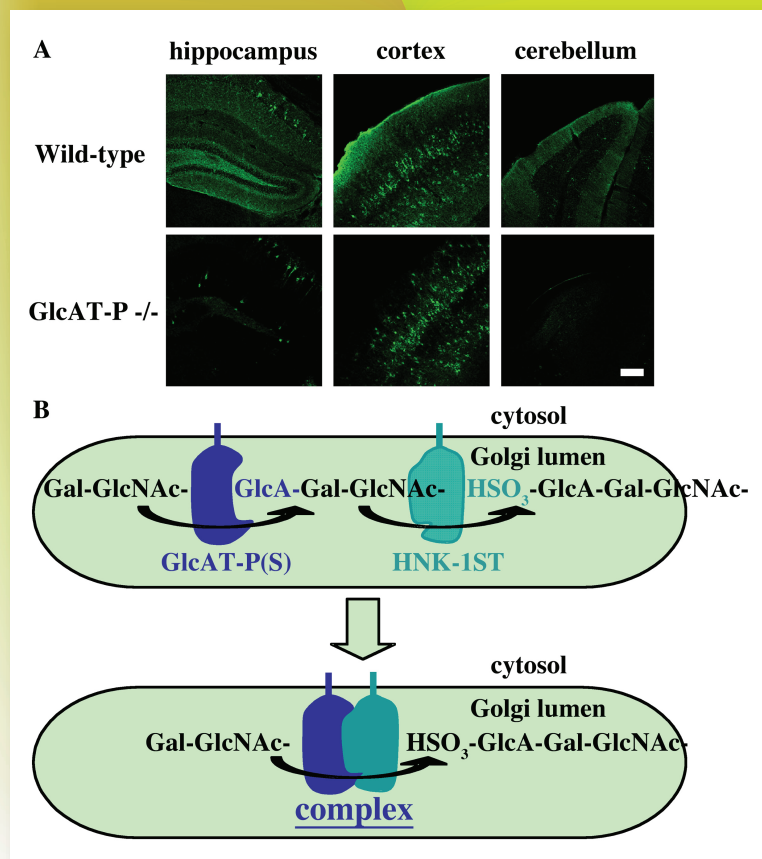
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The JOURNAL is published monthly, with two volumes per annum.

All correspondences concerning this JOURNAL should be addressed to: The Japanese Biochemical Society, Ishikawa Building-3f, 25-16, Hongo 5-chome, Bunkyo-ku, Tokyo 113-0033, Japan. Tel. +81-3-3815-1913, Fax. +81-3-3815-1934

Subscription

Annual subscription rate (Volume 143 and Volume 144, 2008)

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COVER: (A) Expression of the HNK-1 carbohydrate in mouse brain. Coronal brain sections (hippocampus, cortex and cerebellum) from 11-week-old wild-type and GlcAT-P deficient ($-/-$) mice were immunostained with HNK-1 mAb. The expression of HNK-1 carbohydrate in GlcAT-P $-/-$ was considerably reduced. However, in some limited regions so called perineuronal nets (PNs), HNK-1 carbohydrate remained in the cerebral cortex and hippocampus of GlcAT-P $-/-$. Scale bar, 100 μ m. (B) Schematic diagram of the enzyme complexes. The biosynthesis of HNK-1 carbohydrate ($\text{HSO}_3\text{-3GlcA}\beta\text{1-3Gal}\beta\text{1-4GlcNAc-}$) is regulated by two glucuronyltransferases (GlcAT-P and GlcAT-S) and a sulfotransferase (HNK-1ST). In Golgi apparatus, GlcAT-P (S) and HNK-1ST form an enzyme complex, resulting in efficient biosynthesis of the HNK-1 carbohydrate. [See Morita et al., p. 719]

JB Minireviews—Functional Dynamics of the Nucleus

Packaging the Genome: the Structure of Mitotic Chromosomes

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Till Disassembly Do Us Part: A Happy Marriage of Nuclear Envelope and Chromatin

Yuichi Tsuchiya

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Capturing Epigenetic Dynamics During Pre-implantation Development Using Live Cell Imaging

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Cracking the Enigmatic Linker Histone Code

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The Structure and Functions of NPM1/Nucleophsmin/B23, a Multifunctional Nucleolar Acidic Protein

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JB Minireviews—New Paradigm in Glycobiology

Expression and Function of the HNK-1 Carbohydrate

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Biological Function of Fucosylation in Cancer Biology

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JB Review

Messenger RNA Surveillance Systems Monitoring Proper Translation Termination

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