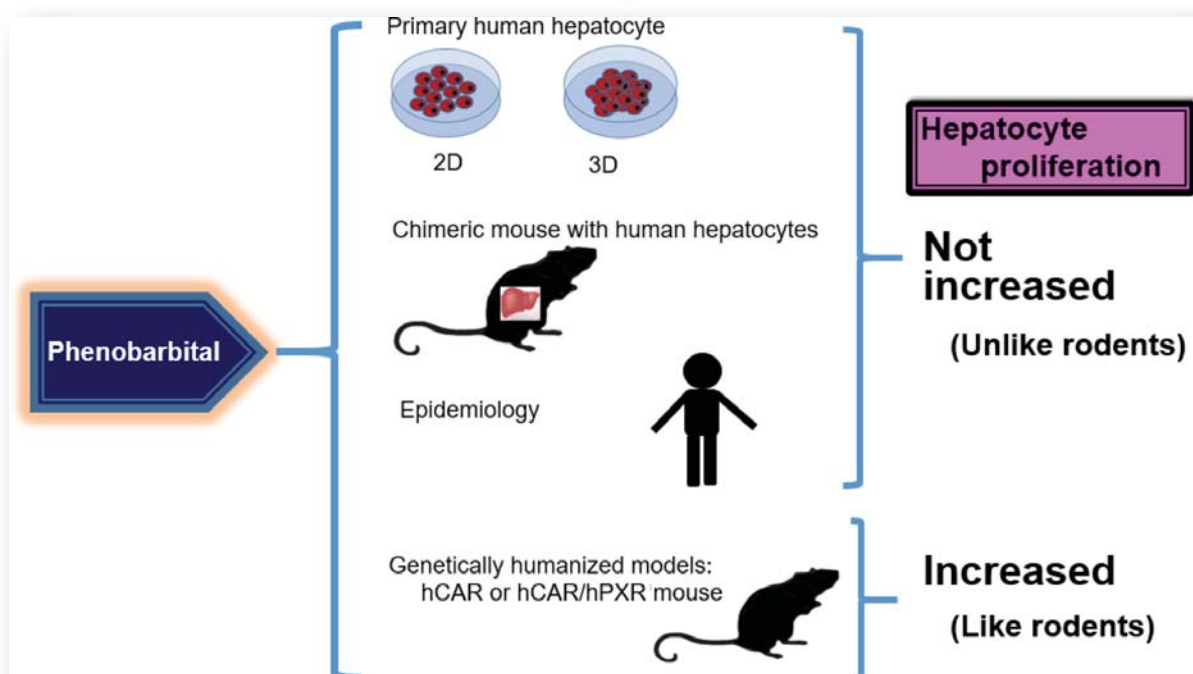




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Description

The *Journal of Toxicologic Pathology* is an official periodical journal of the Japanese Society of Toxicologic Pathology. The journal accepts original papers, short communications, case reports and review articles. One volume published each year is composed of four numbers. Members of the Society are entitled to receive all publications in exchange for his or her membership fee. All articles published in the *Journal of Toxicologic Pathology* represent the opinion(s) of the author(s) and should not be construed to reflect the opinion of the Society.

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Cover: Overall summary for effects of phenobarbital on human hepatocyte proliferation in different experimental models and epidemiological studies. The data obtained from transgenic mice with either human constitutive androstane receptor (CAR) or human CAR and pregnane X receptor (PXR) (hCAR or hCAR/hPXR mouse) showed increased hepatocyte proliferation, similar to that obtained in wild-type mice or rats. In contrast, data from the chimeric mice with human hepatocytes are consistent with the findings with *in vitro* cultured human hepatocyte studies where CAR activators do not increase hepatocyte proliferation, distinctly different from wild-type mice or rats. The data from the *in vitro* cultured human hepatocyte studies and the chimeric mice with human hepatocytes are consistent with the data from a number of human epidemiological studies showing no increased risk of liver or other tumors. 2D: a two-dimensional culture system. 3D: a three-dimensional culture system. (See T. Yamada, p 283–297)