

表1.交配結果

Experimental group	Dosing	Mother ID	No. of Newborn	
			♂	♀
C	PBS	C-P1A	5	4
		C-P1B	1	6
		C-P2A	5	5
		C-P2B	3	3
	ENU	C-E1A	no plug	
		C-E1B	cannibalized	
		C-E2A	5	4
		C-E2B	no plug	
		C-E3A	no plug	
		C-E3B	no plug	
	BP	C-B1A	5	5
		C-B1B	infertility	
		C-B2A	2	1
		C-B2B	infertility	
		C-B3A	no plug	
		C-B3B	infertility	
D	PBS	D-P1	infertility	
		D-P2	infertility	
	ENU	D-E1	infertility	
		D-E2	infertility	
		D-E3	infertility	
	BP	D-B1	infertility	
		D-B2	infertility	
		D-B3	infertility	
E	PBS	E-P1	infertility	
		E-P2	cannibalized	
	ENU	E-E1	2	4
		E-E2	4	3
		E-E3	4	3
	BP	E-B1	cannibalized	
		E-B2	3	3
		E-B3	cannibalized	
F	PBS	F-P1	infertility	
		F-P2	1	5
	ENU	F-E1	6	3
		F-E2	5	3
		F-E3	1	5
	BP	F-B1	cannibalized	
		F-B2	4	2
		F-B3	infertility	

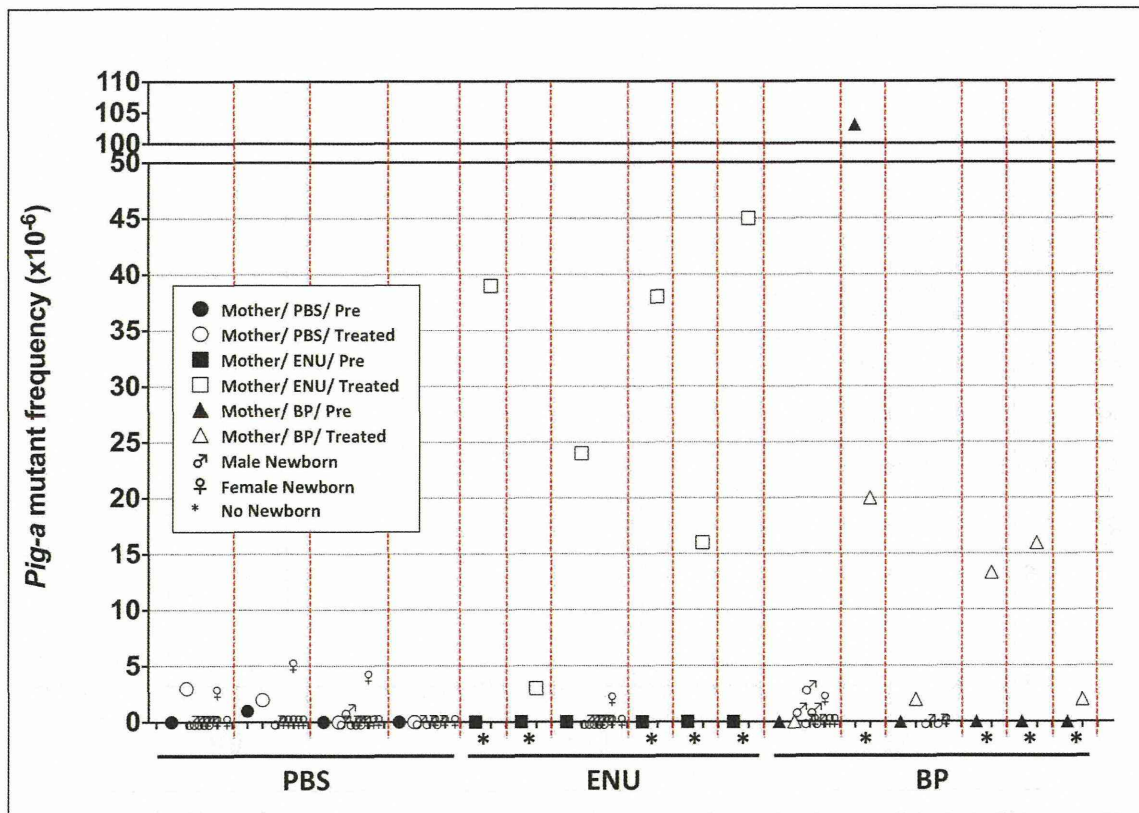


図11.妊娠前投与群における母および仔マウスのPig-a変異体頻度

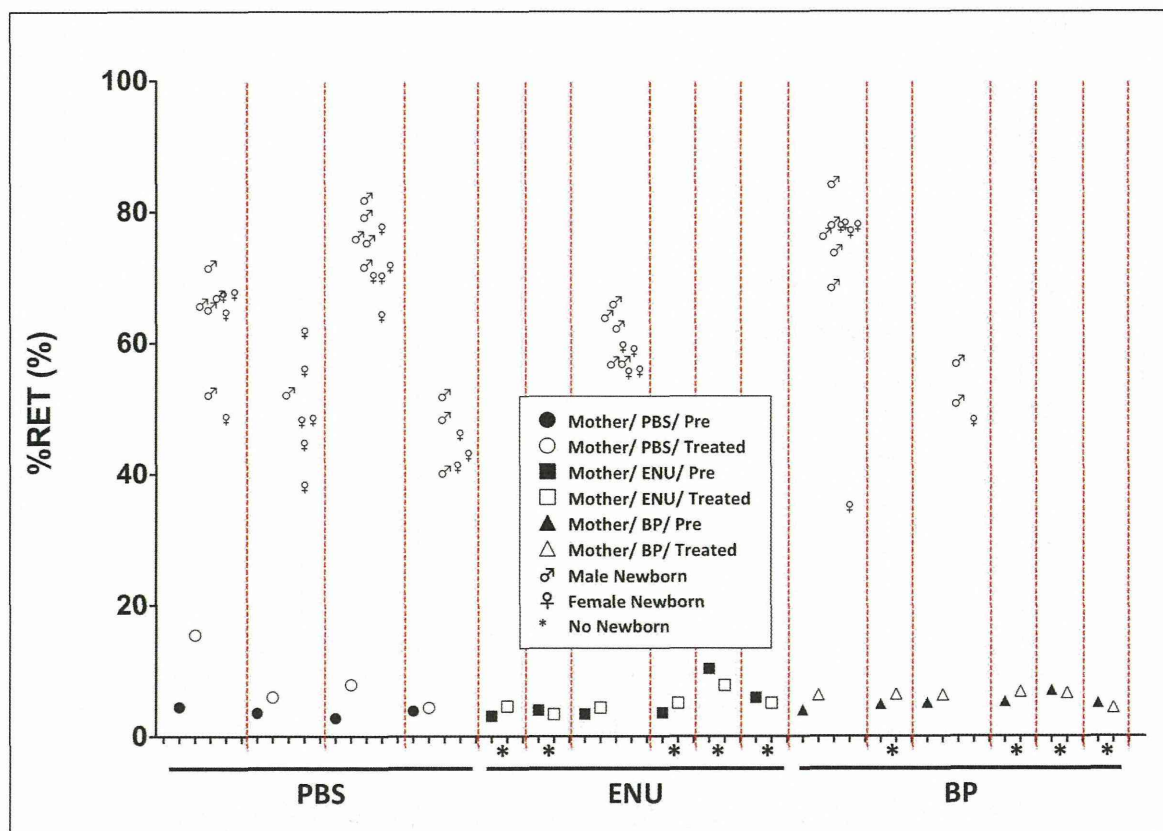


図12.妊娠前投与群における母および仔マウスの幼若赤血球頻度

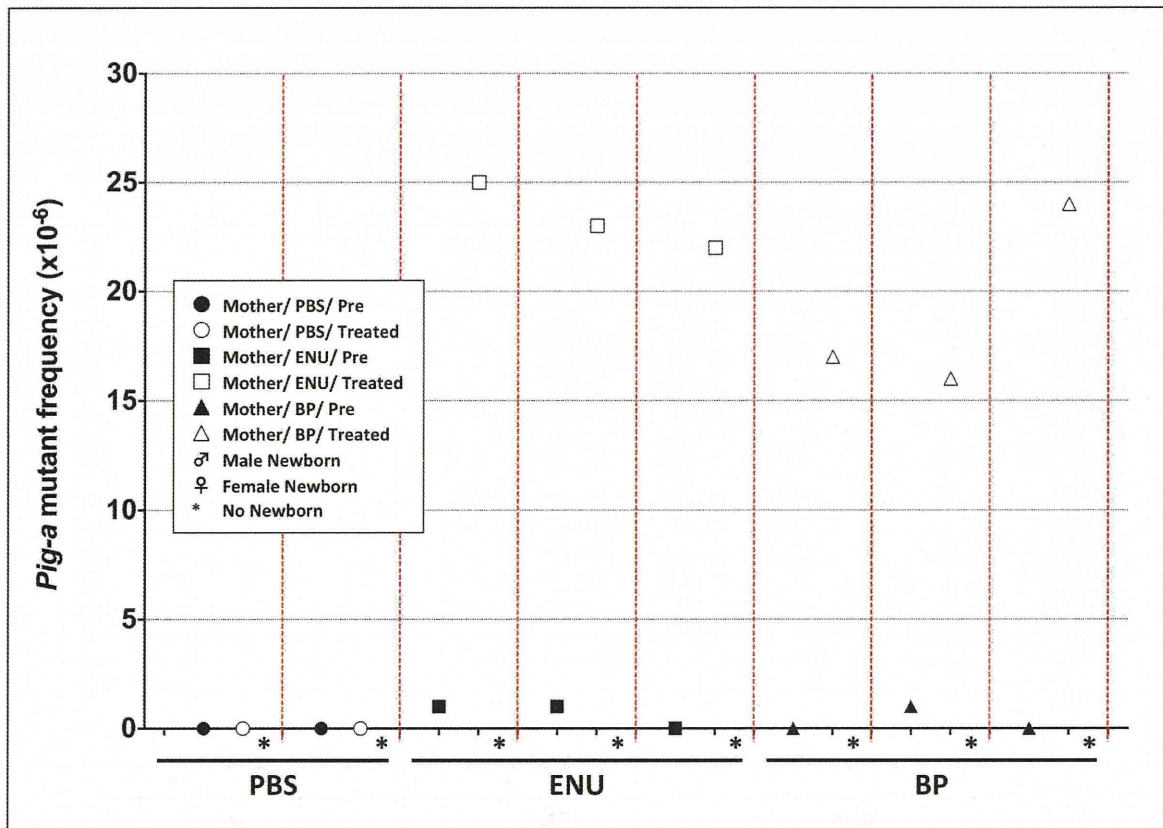


図13.妊娠初期投与群における母マウスの*Pig-a*変異体頻度

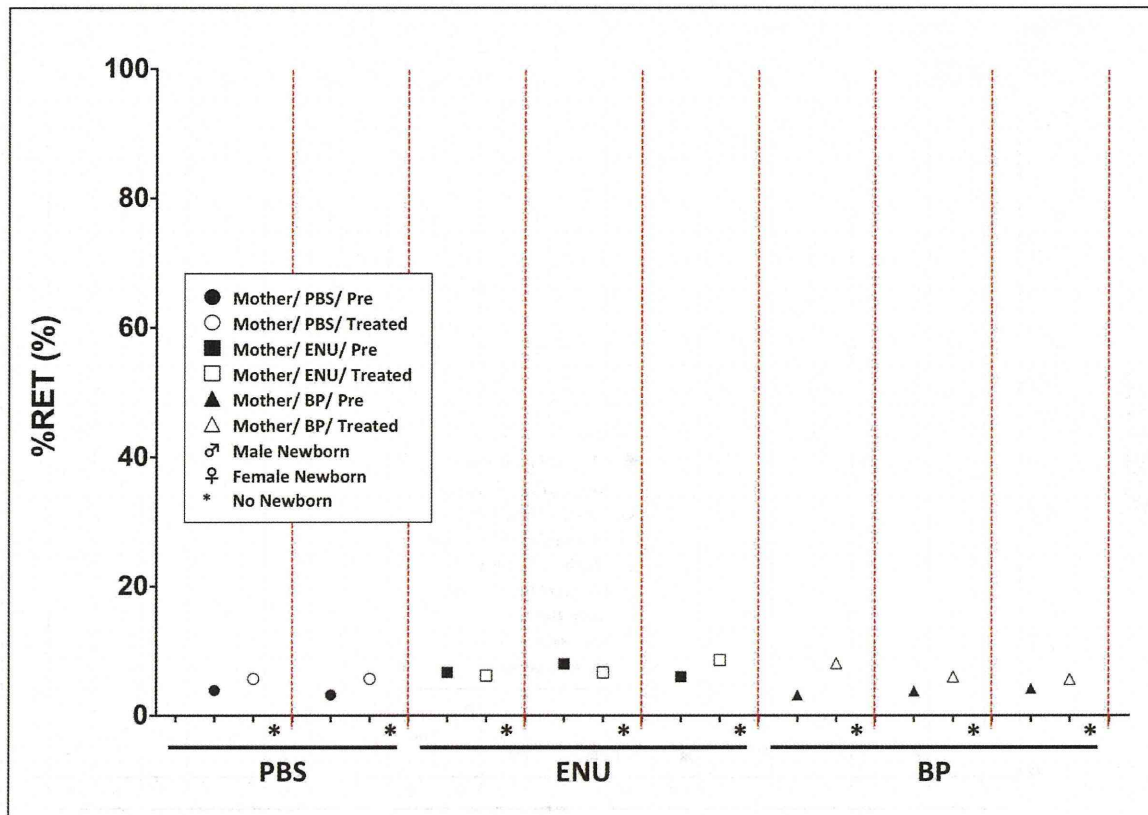


図14.妊娠初期投与群における母マウスの幼若赤血球頻度

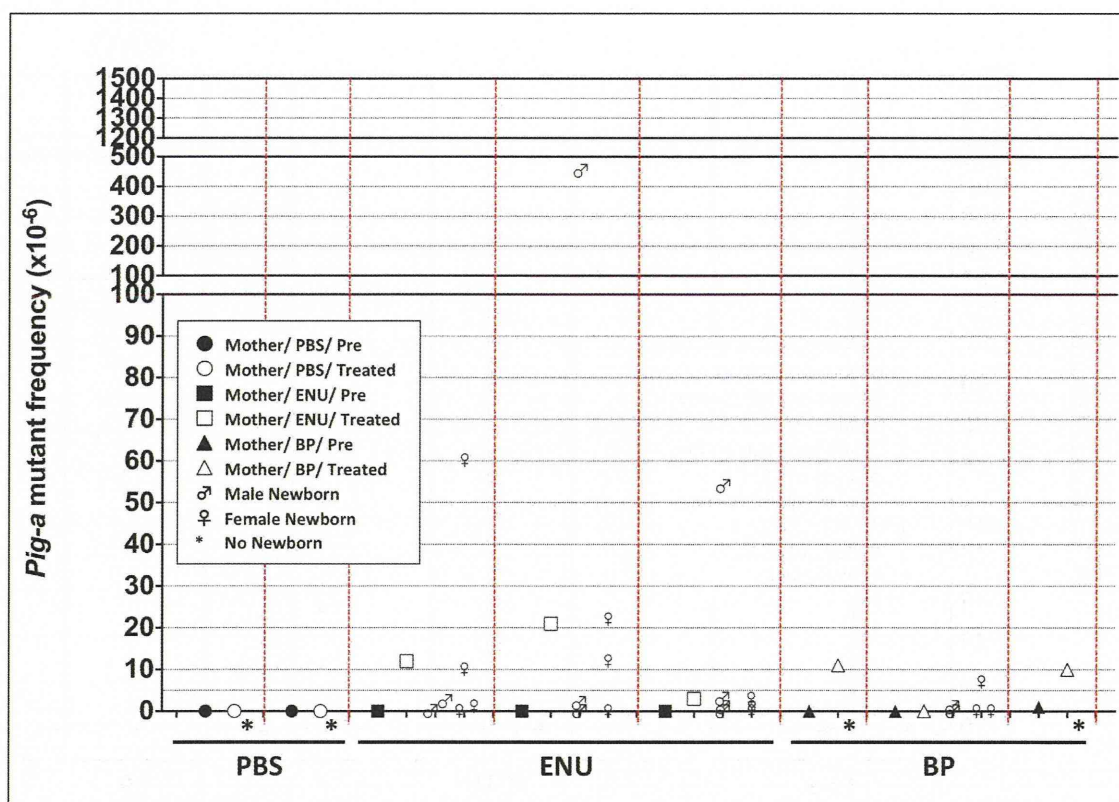


図15.妊娠中期投与群における母および仔マウスの*Pig-a*変異体頻度

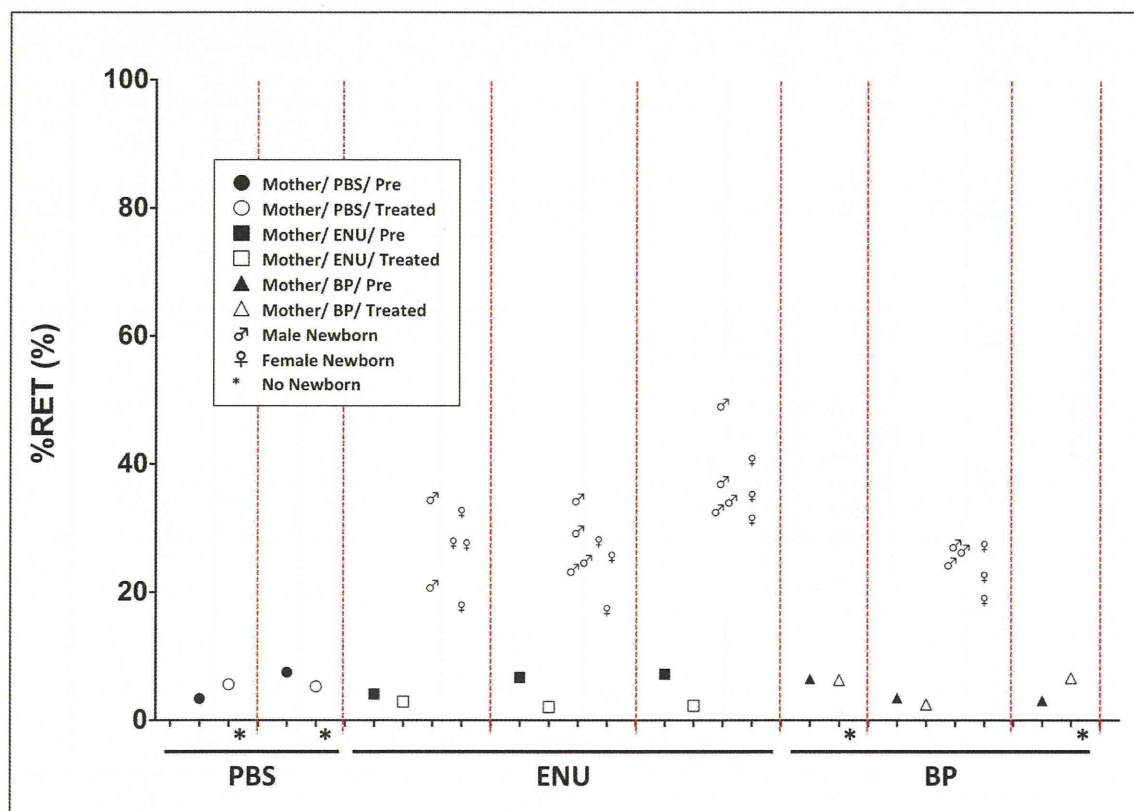


図16.妊娠中期投与群における母および仔マウスの幼若赤血球頻度

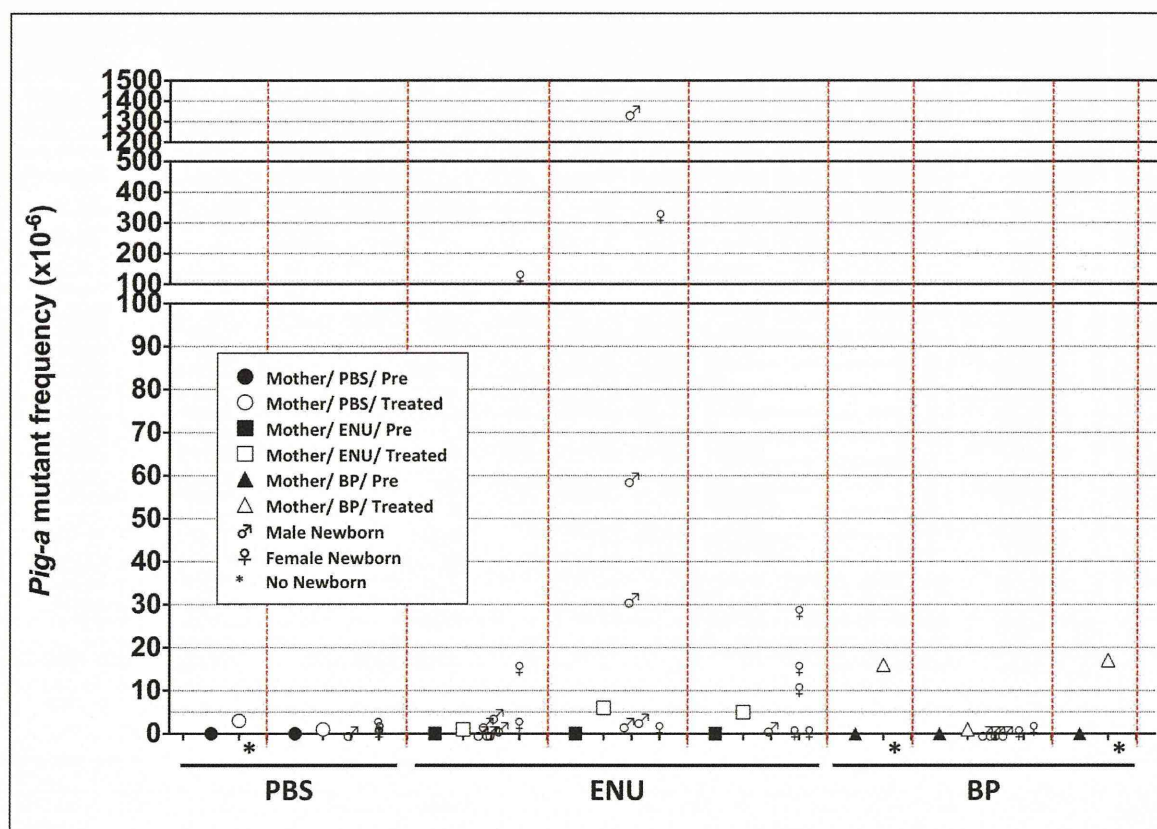


図17.妊娠後期投与群における母および仔マウスの*Pig-a*変異体頻度

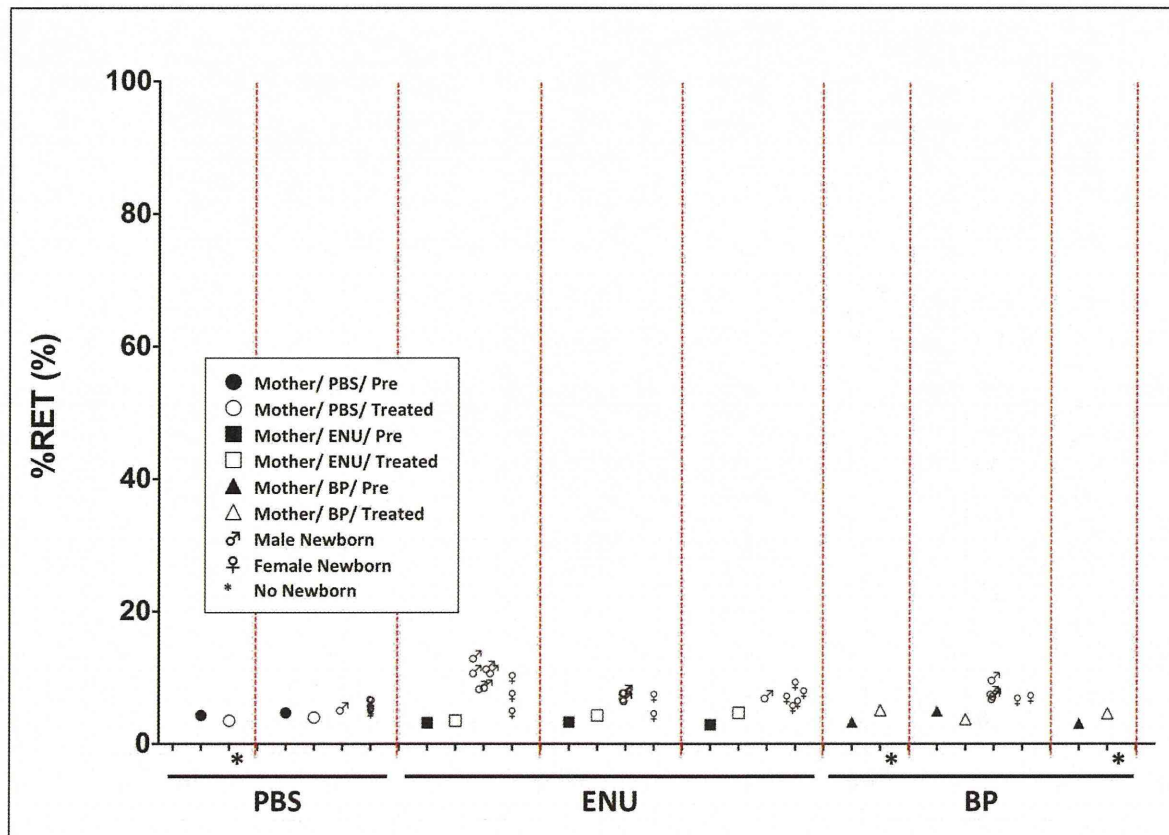


図18.妊娠後期投与群における母および仔マウスの幼若赤血球頻度

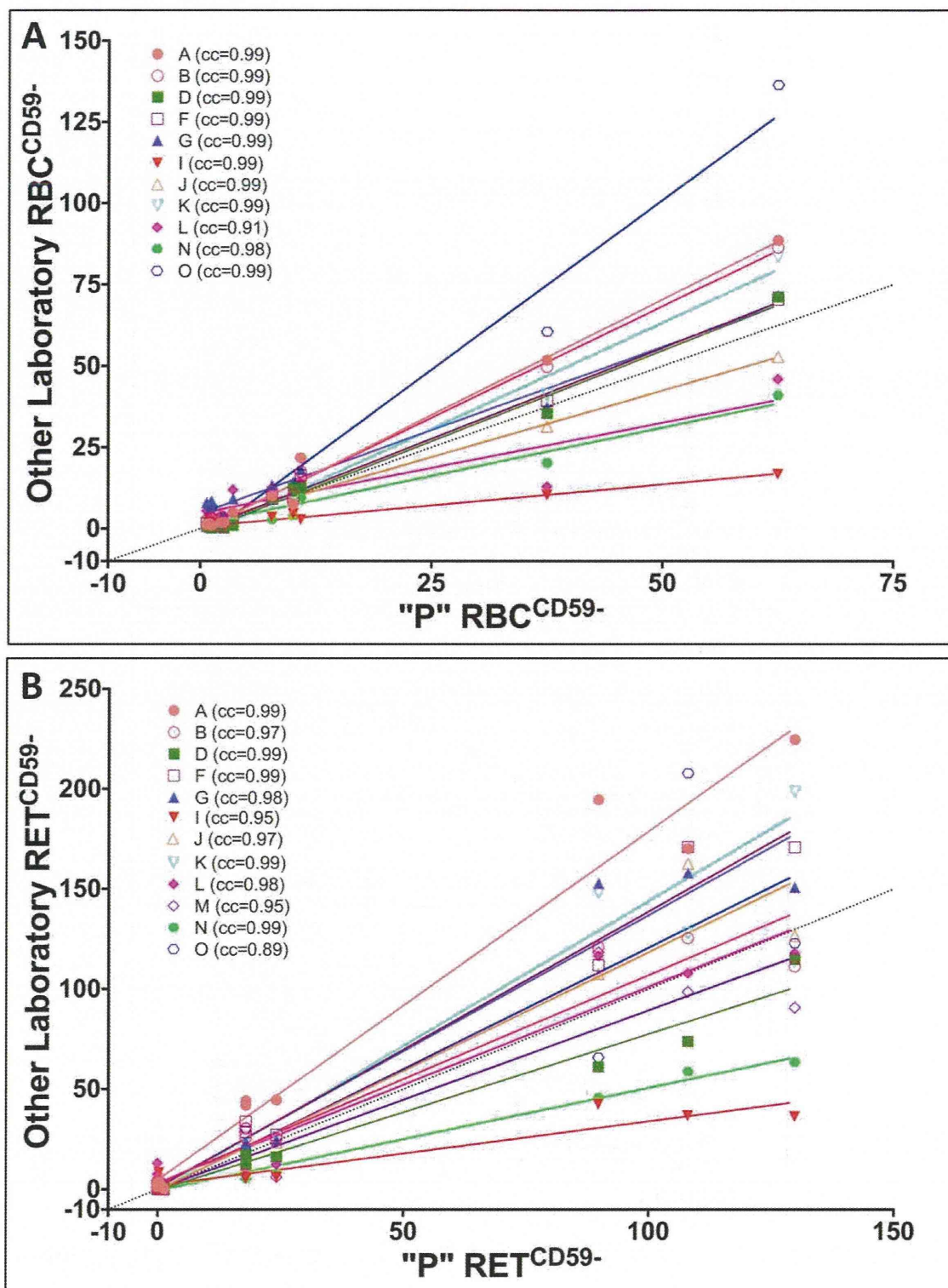


図19.線形回帰分析と相関係数(A, RBC *Pig-a*アッセイ. B, PIGRET法)

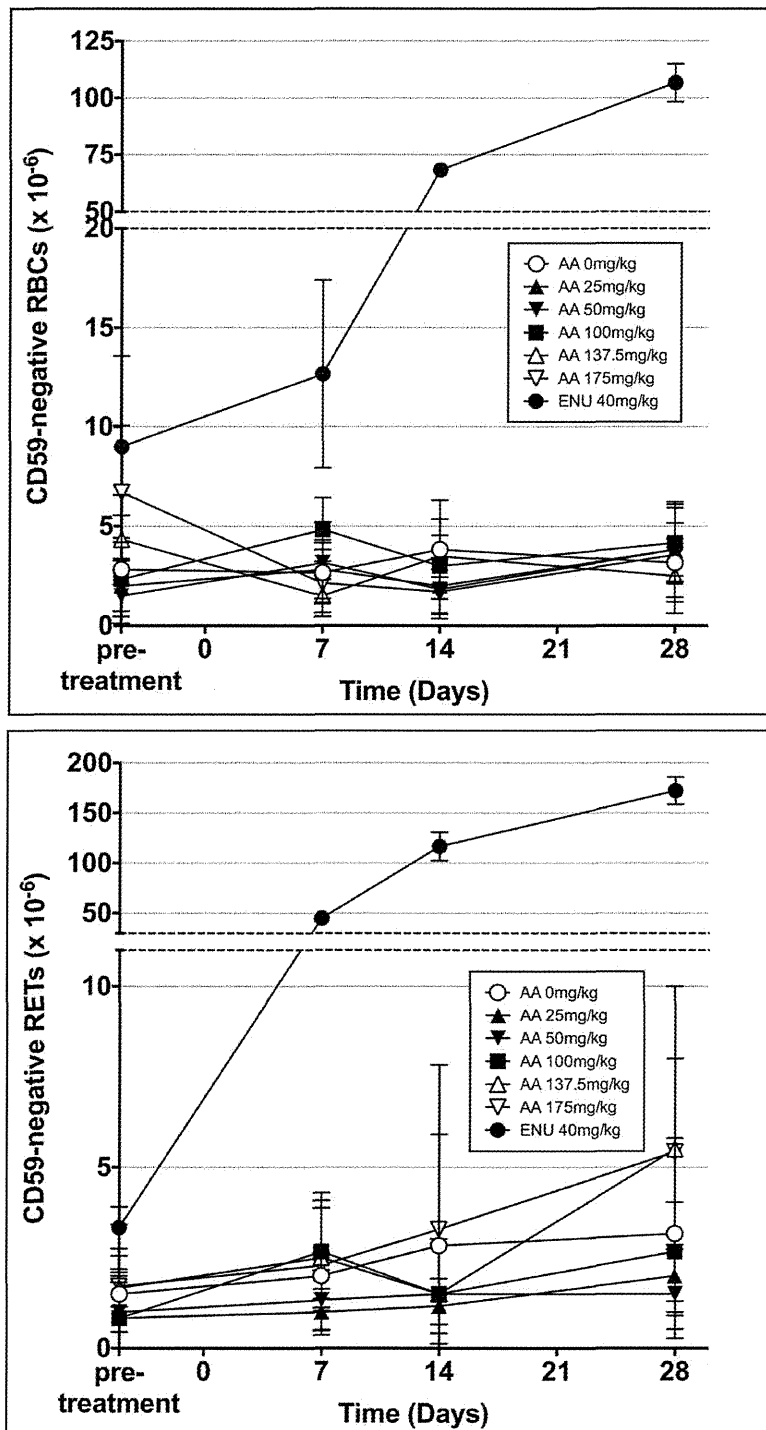


図20.ラットを用いたアクリルアミドの遺伝毒性評価(A, RBC *Pig-a*アッセイ. B, PIGRET法)

別添 5

II. 研究成果の刊行に関する一覧表

研究成果の刊行に関する一覧表

書籍

著者氏名	論文タイトル名	書籍全体の編集者名	書 籍 名	出版社名	出版地	出版年	ページ
該当無し							

雑誌

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Horibata K, Ukai A, Honma M	Evaluation of mutagenicity of acrylamide using RBC Pig-a and PIGRET assays by single peroral dose in rats	<i>Mutation Research</i>	In press	In press	2016
Johnson GE, Yamamoto M, Suzuki Y, Adachi H, Kyoya T, Takasawa H, Horibata K, Tsutsumi E, Wada K, Kikuzuki R, Yoshida I, Kimoto T, Maeda A, Narumi K	Measuring Reproducibility of Dose Response Data for the <i>Pig-a</i> Assay using Covariate Benchmark Dose Analysis	<i>Mutation Research</i>	In press	In press	2016
Gollapudi BB, Lynch AM, Heflich RH, Dertinger SD, Dobrovolsky VN, Froetschl R, Horibata K, Kenyon MO, Kimoto T, Lovell DP, Stankowski Jr LF, White PA, Witt KL, Tanir JY	The in vivo Pig-a assay: A report of the International Workshop On Genotoxicity Testing (IWGT) Workgroup.	<i>Mutation Research</i>	783	23-35	2015

Horibata K, Kono S, Ishigami C, Zhang X, Aizawa M, Kako Y, Ishii T, Kosaki R, Saijo M, Tanaka K.	Constructive rescue of TFIIH instability by an alternative isoform of XPD derived from a mutated XPD allele in mild but not severe XP-D/CS.	<i>Journal of Human Genetics</i>	60(5)	259-65	2015
Horibata K, Ukai A, Honma M	Evaluation of Rats' In Vivo Genotoxicity Induced by N-ethyl-N-nitrosourea in the RBC Pig-a, PIGRET, and gpt Assays.	<i>Genes and Environment</i>	36	199-202	2014
Wakasugi M, Sasaki T, Matsumoto M, Nagaoka M, Inoue K, Inobe M, Horibata K, Tanaka K, Matsunaga T.	Nucleotide Excision Repair-dependent DNA Double-strand Break Formation and ATM Signaling Activation in Mammalian Quiescent Cells.	<i>The Journal of Biological Chemistry</i>	289	28730-7	2014
Onami S, Cho YM, Toyoda T, Horibata K, Ishii Y, Umemura T, Honma M, Nohmi T, Nishikawa A, Ogawa K.	Absence of in vivo genotoxicity of 3-monochloropropane-1, 2-diol and associated fatty acid esters in a 4-week comprehensive toxicity study using F344 gpt delta rats.	<i>Mutagenesis</i>	29	295-302	2014
Horibata K, Ukai A, Kimoto T, Suzuki T, Kamoshita N, Masumura K, Nohmi T, Honma M.	Evaluation of in vivo genotoxicity induced by N-ethyl-N-nitrosourea, benzo[a]pyrene, and 4-nitroquinoline-1-oxide in the Pig-a and gpt assays	<i>Environmenta l and Molecular Mutagenesis</i>	54(9)	747-54	2013
Kimoto T, Horibata K, Chikura S, Hashimoto K, Itoh S, Sanada H, Muto S, Uno Y, Yamada M, Honma M.	Interlaboratory trial of the rat Pig-a mutation assay using an erythroid marker HIS49 antibody	<i>Mutation Research</i>	755(2)	126-34	2013