

## 完成したデータベース規模

化合物数：150

動物数：24,000匹

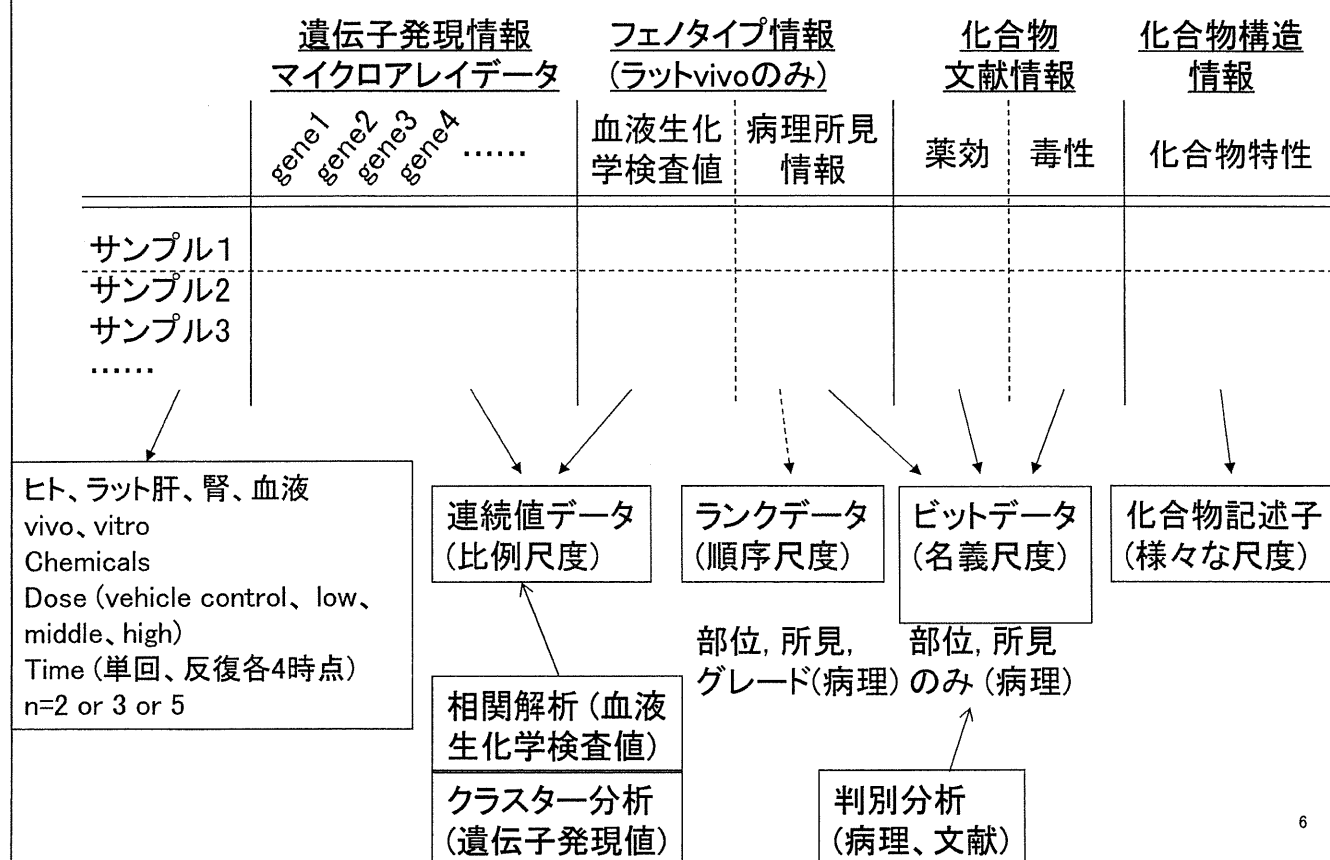
GeneChip数：24,000

測定遺伝子数：約800,000,000

測定検査値：2,880,000項目

病理組織標本：48,000

## TGPデータのデータ構造・尺度



# Genomics-Assisted Toxicity Evaluation System created by Toxicogenomics Project Japan

## TG-GATEs

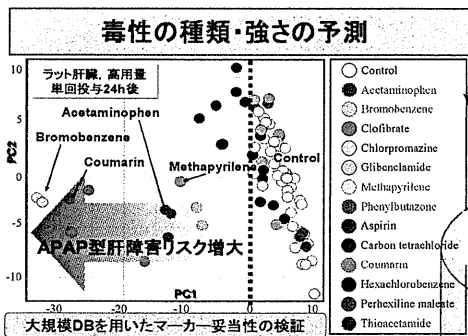
Database

Analyzer

Predictor

## TGP Analyzer - Predictor

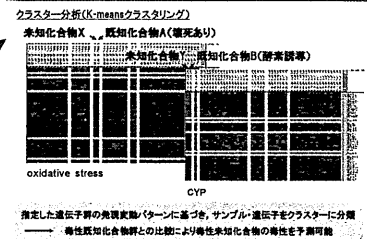
主成分分析



毒性未知化合物 X

クラスター分析

毒性類似医薬品の予測

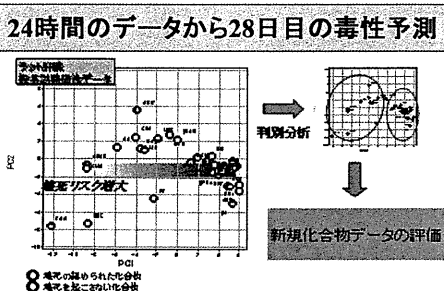


Analyzer - Predictor

医薬品候補化合物の選択

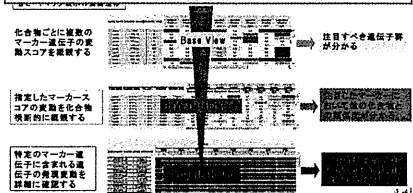
- ・毒性の種類・強さの予測
- ・毒性類似医薬品の予測
- 毒性予測
- ・単回データ(24時間)から反復データ(28日)の毒性予測
- ・in vivo - in vitroの反応性比較

判別分析



大規模データビューワ

遺伝子発現変動マーカを網羅的に表示

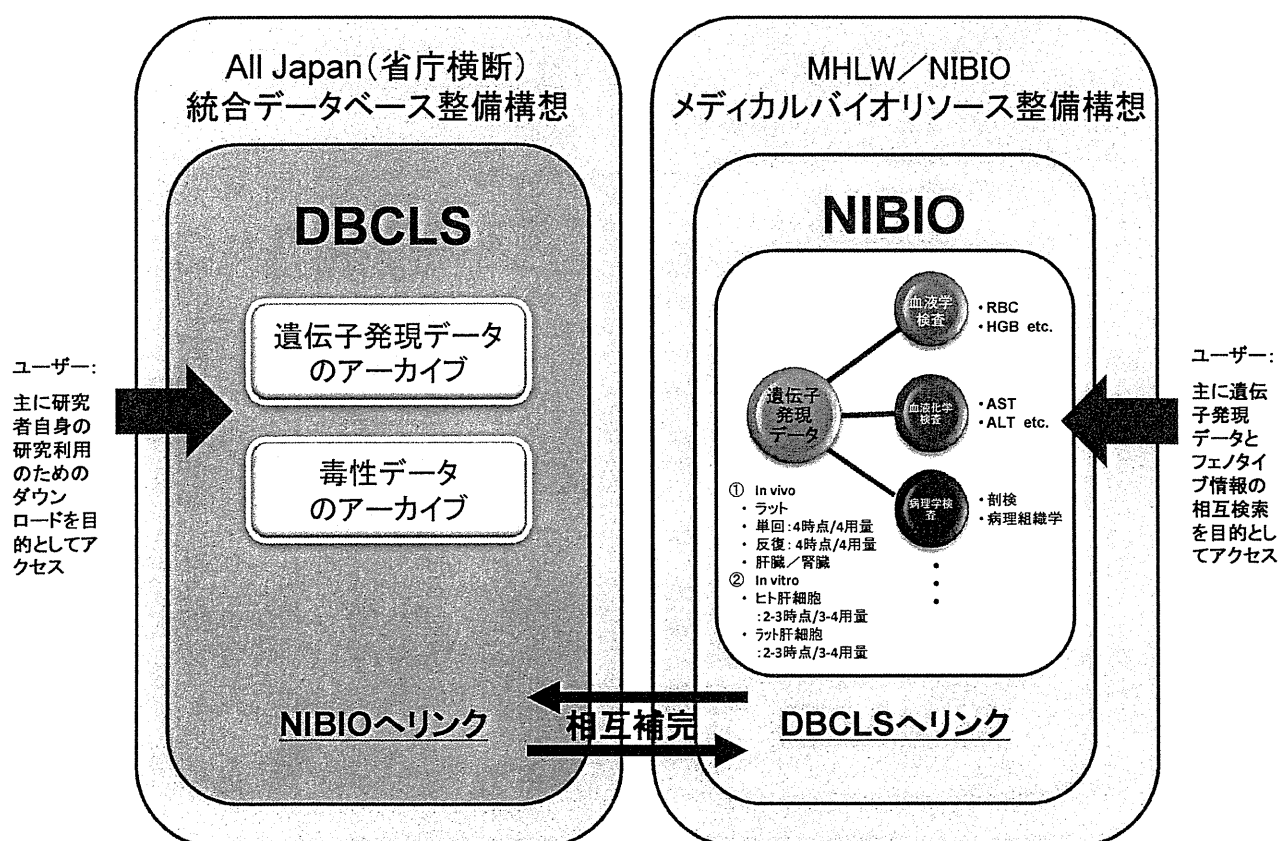


医薬品研究開発の初期段階における候補化合物の効率的な毒性スクリーニング

# データベースの公開 (運営委員会決定事項)

1. データベースの内容は2010年度までに  
公共データベースへ格納
2. 毒性概要と病理組織は印刷物として刊行  
監修: 三森国敏教授(東京農工大)  
関係各位には無償配布

## 概念図

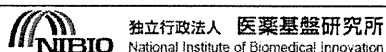


2011年2月25日 TGP1データ  
2012年1月18日 TGP2データ

データベースが一般公開されました



<http://toxico.nibio.go.jp>



[このDBについて](#) [データ検索](#) [公開データ一覧](#) [利用許諾条件](#) [お問合せ](#)

#### このDBについて

TGP (Toxicogenomics Project, トキシコゲノミクスプロジェクト) は、独立行政法人医薬基盤研究所、国立医薬品食品衛生研究所および製薬企業 (15社) が参画した官民共同プロジェクトであり、平成14年度から平成18年度までの5年間をかけて、150の化合物 (医薬品等) をラット個体およびラット・ヒト肝細胞へ暴露した際の遺伝子発現情報および毒性情報を取得し、大規模かつ良質なトキシコゲノミクスデータベースを構築しました。さらに当該データベースに解析および毒性予測システムの機能を付加したTG-GATEs (Toxicogenomics Project-Genomics Assisted Toxicity Evaluation system) の開発も達成しています。

Open TG-GATEsは、TGPの研究成果を幅広い研究者に活用して頂くために開発した一般公開用のトキシコゲノミクスデータベースであり、TG-GATEsに格納されているデータの中から131化合物に係るデータを公開しています。データの絞り込みにおいては、化合物名を起点とした検索と臓器別病理所見を起点とした検索を行うことが出来ます。また病理所見等のフェノタイプデータに紐付けされた遺伝子発現データをCELファイルとしてダウンロードすることが可能です。

Open TG-GATEsは、以下の厚生労働科学研究費補助金およびプロジェクト参加企業からの共同研究費による研究成果の一部を公開したものです。

1. 研究課題名: トキシコゲノミクス手法を用いた医薬品安全性評価予測システムの構築とその基盤に関する研究 (課題番号(ID): H14-トキシコ-指定-001)
2. 研究課題名: トキシコゲノミクスデータベースを活用した毒性メカニズムに基づく医薬品安全性評価に関する研究 (課題番号(ID): H19-トキシコ-指定-001)

データベース公開にあたり、プロジェクトに参加した多数の研究者・技術員およびIT関係者の皆様に感謝致します。

独立行政法人 医薬基盤研究所  
創薬基盤研究部  
トキシコゲノミクス・インフォマティクスプロジェクト

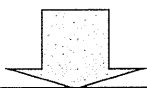
# Open TG-GATES

このDBについて データ検索 公開データ一覧 利用許諾条件 お問い合わせ

## 公開データ一覧

公開対象 in vivoデータ				in vitroデータへ							
化合物名 (日)	化合物名 (英)	薬効分類	臓器	動物試験投与量 (mg/kg)			反復試験投与量 (mg/kg)			備考	
				Low	Middle	High	Low	Middle	High		
1	アセトアミノフェン	acetaminophen	中枢神経系用薬	Liver/ Kidney	300	600	1000	300	600	1000	
2	イソニアジド	isoniazid	化学療法剤	Liver	200	800	2000	50	100	200	
3	四塩化炭素	carbon tetrachloride	化学物質 (肝障害)	Liver	30	100	300	30	100	300	
4	フェノバルビタール	phenobarbital	中枢神経系用薬	Liver	100	150	300	10	30	100	
5	バルプロ酸	valproic acid	中枢神経系用薬	Liver/ Kidney	45	150	450	45	150	450	
6	クロフィブラート	clofibrate	循環器官用薬	Liver/ Kidney	30	100	300	30	100	300	
7	リファンピシ	rifampicin	抗生物質製剤, 化学療法剤	Liver/ Kidney	20	60	200	20	60	200	
8	ナフチルイソチオシアネート	naphthyl isothiocyanate	化学物質	Liver	15	50	150	1.5	5	15	
9	アリルアルコール	allyl alcohol	化学物質 (肝障害)	Liver/ Kidney	3	10	30	3	10	30	
10	フェニルブタゾン	phenylbutazone	中枢神経系用薬	Liver/ Kidney	20	60	200	20	60	200	
11	オメプラゾール	omeprazole	消化器官用薬	Liver/ Kidney	100	300	1000	100	300	1000	
12	エチオニン	ethionine	化学物質 (肝障害)	Liver/ Kidney	25	80	250	25	80	250	
13	アスピリン	aspirin	中枢神経系, 血液・体液用薬	Liver	450	1000	2000	45	150	450	
14	インドメタシン	indomethacin	中枢神経系用薬, 循環器官用	Liver/ Kidney	5	15	50	0.5	1.5	5	
15	クロロプロマジン	chlorpromazine	中枢神経系用薬	Liver	45	150	NoData	4.5	15	45	
16	チオアセタミド	thioacetamide	化学物質 (肝障害)	Liver/ Kidney	4.5	15	45	4.5	15	45	
17	カルバマゼピン	carbamazepine	中枢神経系用薬	Liver	30	100	300	30	100	300	
18	ジクロフェナク	diclofenac	中枢神経系用薬, 感覚器官用, 外皮用	Liver	10	30	100	1	3	10	
19	ニトロフラントイン	nitrofurantoin	合成抗菌剤	Liver/ Kidney	100	300	600	10	30	100	
20	ベンズブロマロン	benzbromarone	代謝性医薬品	Liver	20	60	200	20	60	200	
21	ヘキサクロロベンゼン	hexachlorobenzene	化学物質	Liver/ Kidney	300	1000	2000	30	100	300	
22	ジアゼパム	diazepam	中枢神経系	Liver	25	75	250	25	75	250	
23	シクロホスファミド	cyclophosphamide	腫瘍用薬	Liver/ Kidney	1.5	5	15	1.5	5	15	

Continued



125	シクロスポリンA	cyclosporine A	代謝性医薬品	Liver/ Kidney	30	100	300	10	30	100	
126	ピューロマイシンAミノヌクレオシド	puromycin aminonucleoside	化学物質	Liver/ Kidney	12	40	120	4	12	40	
127	アセトアミドフルオレン	acetamidofluorene	化学物質 (肝障害)	Liver	100	300	1000	30	100	300	
128	ニトロソジエチルアミン	nitrosodiethylamine	化学物質	Liver	10	30	100	3	10	30	
129	チクロピジン	ticlopidine	代謝性医薬品	Liver	100	300	1000	30	100	300	
130	ゲンタマイシン	gentamicin	抗生物質	Liver/ Kidney	10	30	100	10	30	100	
131	ドキシルビシン	doxorubicin	腫瘍用薬	Liver/ Kidney	1	3	10	0.1	0.3	1	

### 公開対象 in vivoデータ

公開対象 in vivoデータ				in vitroデータへ							
化合物名 (日)	化合物名 (英)	薬効分類	Cell	Rat試験投与量 (µM)			Human試験投与量 (µM)			備考	
				Low	Middle	High	Low	Middle	High		
1	アセトアミノフェン	acetaminophen	中枢神経系用薬	Hepatocyte	1000	3000	10000	200	1000	5000	
2	イソニアジド	isoniazid	化学療法剤	Hepatocyte	400	2000	10000	400	2000	10000	
3	四塩化炭素	carbon tetrachloride	化学物質 (肝障害)	Hepatocyte	1000	3000	10000	300	1500	7500	
4	フェノバルビタール	phenobarbital	中枢神経系用薬	Hepatocyte	1000	3000	10000	400	2000	10000	
5	バルプロ酸	valproic acid	中枢神経系用薬	Hepatocyte	400	2000	10000	200	1000	5000	
6	クロフィブラート	clofibrate	循環器官用薬	Hepatocyte	12	60	300	12	60	300	
7	リファンピシ	rifampicin	抗生物質製剤, 化学療法剤	Hepatocyte	2.8	14	70	2.8	14	70	
8	ナフチルイソチオシアネート	naphthyl isothiocyanate	化学物質	Hepatocyte	8	40	200	8	40	200	
9	アリルアルコール	allyl alcohol	化学物質 (肝障害)	Hepatocyte	0.8	4	20	2.8	14	70	
10	フェニルブタゾン	phenylbutazone	中枢神経系用薬	Hepatocyte	16	80	400	16	80	400	
11	オメプラゾール	omeprazole	消化器官用薬	Hepatocyte	4.8	24	120	24	120	600	
12	エチオニン	ethionine	化学物質 (肝障害)	Hepatocyte	400	2000	10000	400	2000	10000	
13	アスピリン	aspirin	中枢神経系, 血液・体液用薬	Hepatocyte	120	600	3000	120	600	3000	
14	インドメタシン	indomethacin	中枢神経系用薬, 循環器官用	Hepatocyte	12	60	300	8	40	200	
15	クロロプロマジン	chlorpromazine	中枢神経系用薬	Hepatocyte	0.8	4	20	0.8	4	20	
16	チオアセタミド	thioacetamide	化学物質 (肝障害)	Hepatocyte	400	2000	10000	400	2000	10000	
17	カルバマゼピン	carbamazepine	中枢神経系用薬	Hepatocyte	12	60	300	12	60	300	
18	ジクロフェナク	diclofenac	中枢神経系用薬, 感覚器官用, 外皮用	Hepatocyte	16	80	400	16	80	400	
19	ニトロフラントイン	nitrofurantoin	合成抗菌剤	Hepatocyte	5	25	125	5	25	125	
20	ベンズブロマロン	benzbromarone	代謝性医薬品	Hepatocyte	0.6	3	15	4	20	100	
21	ヘキサクロロベンゼン	hexachlorobenzene	化学物質	Hepatocyte	0.6	3	15	1.2	6	30	
22	ジアゼパム	diazepam	中枢神経系	Hepatocyte	5	25	125	10	50	250	
23	シクロホスファミド	cyclophosphamide	腫瘍用薬	Hepatocyte	8	40	200	80	400	2000	
24	メタピリレン	methapyrirene	アレルギー用薬	Hepatocyte	0.8	3	15	24	120	600	
25	フェニトイン	phenytoin	中枢神経系	Hepatocyte	2.4	12	60	2.4	12	60	
26	クマリン	coumarin	化学物質 (肝障害)	Hepatocyte	12	60	300	12	60	300	
27	アロプリノール	allopurinol	代謝性医薬品	Hepatocyte	5.6	28	140	5.6	28	140	
28	プロピルチオウラシル	propylthiouracil	ホルモン剤	Hepatocyte	160	800	4000	160	800	4000	
29	WY-14643	WY-14643	化学物質 (肝障害)	Hepatocyte	8	40	200	6	30	150	
30	ガムフィブロzil	gemfibrozil	高脂血症治療剤	Hepatocyte	4	20	100	4	20	100	
31	ブロモベンゼン	bromobenzene	化学物質 (肝障害)	Hepatocyte	8	40	200	8	40	200	
32	アミオダロン	amiodarone	循環器官用薬	Hepatocyte	0.28	1.4	7	0.28	1.4	7	
33	スルファサラジン	sulfasalazine	化学療法剤	Hepatocyte	4	20	100	6	30	150	
34	シメチジン	cimetidine	消化器官用薬	Hepatocyte	12	60	300	12	60	300	
35	ハロペリドール	haloperidol	中枢神経系用薬	Hepatocyte	2	10	50	0.8	4	20	
36	フルフェナジン	fluphenazine	中枢神経系用薬	Hepatocyte	1.2	6	30	0.8	4	20	
37	チオリダジン	thioridazine	中枢神経系用薬	Hepatocyte	0.4	2	10	0.6	3	15	

# Open TG-GATEs



[このDBについて](#) [データ検索](#) [公開データ一覧](#) [利用許諾条件](#) [お問い合わせ](#)

[> Top](#)


CompoundかPathologyのどちらか一つの検索条件を選択し[Search]をクリックしてください。

## Compound List

**select compound**

- acarbose
- acetamidofluorene
- acetaminophen
- acetazolamide
- adapin
- ajmaline
- allopurinol
- allyl alcohol
- amlodarone
- amitriptyline

上記化合物の一つを選択してください

**Search** 

生物種・実験条件の選択画面に進みます

## Pathology List

**select organ**

Liver  Kidney

LiverかKidneyのどちらかを選択してください

**Search** 

病理所見の選択画面に進みます

# Open TG-GATEs



[このDBについて](#) [データ検索](#) [公開データ一覧](#) [利用許諾条件](#) [お問い合わせ](#)

[> Top](#)


CompoundかPathologyのどちらか一つの検索条件を選択し[Search]をクリックしてください。

## Compound List

**select compound**

- meloxicam
- metformin
- methapyrilene
- methimazole
- methyldopa
- methylnestosterone
- meslicline
- monocrystaline
- maxisylbte
- naphthyl isothiocyanate

上記化合物の一つを選択してください

**Search** 


生物種・実験条件の選択画面に進みます

## Pathology List

**select organ**

Liver  Kidney

LiverかKidneyのどちらかを選択してください

**Search** 

病理所見の選択画面に進みます

# Open TG-GATEs



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[データ検索](#)

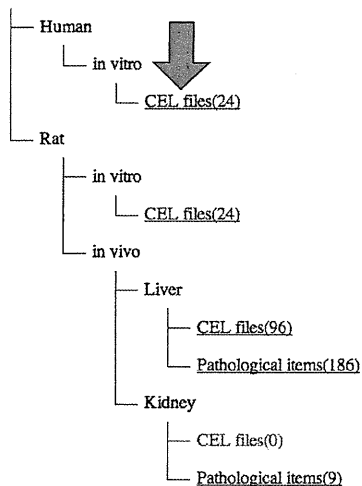
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[利用許諾条件](#)

[お問合せ](#)

> [Top](#) > [methapyrilene](#)

## Compound: methapyrilene



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# Open TG-GATEs



[このDBについて](#)

[データ検索](#)

[公開データ一覧](#)

[利用許諾条件](#)

[お問合せ](#)

> [Top](#) > [methapyrilene](#) > [Human, in vitro](#) > [Liver \(CEL files\)](#)

## Compound: methapyrilene

CEL files:

	2hr	8hr	24hr
Control	<a href="#">003016019023 (CEL)</a>	<a href="#">003016019030 (CEL)</a>	<a href="#">003016020008 (CEL)</a>
	<a href="#">003016041023 (CEL)</a>	<a href="#">003016020001 (CEL)</a>	<a href="#">003016020009 (CEL)</a>
Low	<a href="#">003016019024 (CEL)</a>	<a href="#">003016020002 (CEL)</a>	<a href="#">003016020010 (CEL)</a>
	<a href="#">003016019025 (CEL)</a>	<a href="#">003016020003 (CEL)</a>	<a href="#">003016020011 (CEL)</a>
Middle	<a href="#">003016019026 (CEL)</a>	<a href="#">003016020004 (CEL)</a>	<a href="#">003016020012 (CEL)</a>
	<a href="#">003016019027 (CEL)</a>	<a href="#">003016020005 (CEL)</a>	<a href="#">003016020013 (CEL)</a>
High	<a href="#">003016019028 (CEL)</a>	<a href="#">003016020006 (CEL)</a>	<a href="#">003016020014 (CEL)</a>
	<a href="#">003016019029 (CEL)</a>	<a href="#">003016020007 (CEL)</a>	<a href="#">003016020015 (CEL)</a>

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## Detail Data

Compound	Species	Test Type
methapyrilene	Human	in vitro
Organ	Time(Sacrifice)	Dose Level
Liver	24 hr	High
Dose	Chip Type	Sample ID
600 $\mu$ M	HG-U133_Plus_2	509012ILRA

Barcode	CEL File
003016020014	<a href="#">Download</a>

## Cell Viability

Cell Viability (%) (LDH)	
Cell Viability (%) (DNA)	

DLされるのは  
CEL Fileです！

# Open TG-GATEs



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[データ検索](#)

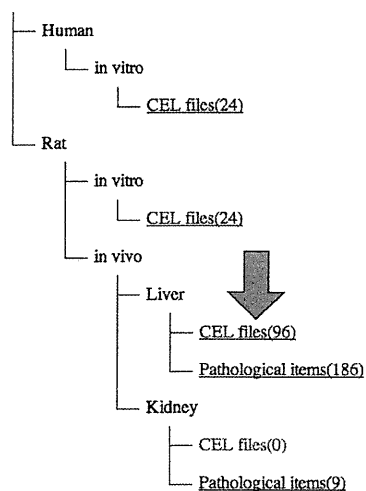
[公開データ一覧](#)

[利用許諾条件](#)

[お問合せ](#)

> [Top](#) > [methapyrilene](#)

### Compound: methapyrilene





# Open TG-GATEs



このDBについて データ検索 公開データ一覧 利用許諾条件 お問い合わせ

> Top > methapyrilene > Rat, in vivo > Liver (CEL files)

switch to Pathological items

## Compound: methapyrilene

CEL files: (Single)

	3hr	6hr	9hr	24hr
Control	003017646006 (CEL)	003017646018 (CEL)	003017646030 (CEL)	003017647012 (CEL)
	003017646007 (CEL)	003017646019 (CEL)	003017647001 (CEL)	003017647013 (CEL)
	003017646008 (CEL)	003017646020 (CEL)	003017647002 (CEL)	003017647014 (CEL)
Low	003017646009 (CEL)	003017646021 (CEL)	003017647003 (CEL)	003017647015 (CEL)
	003017646010 (CEL)	003017646022 (CEL)	003017647004 (CEL)	003017647016 (CEL)
	003017646011 (CEL)	003017646023 (CEL)	003017647005 (CEL)	003017647017 (CEL)
Middle	003017646012 (CEL)	003017646024 (CEL)	003017647006 (CEL)	003017647018 (CEL)
	003017646013 (CEL)	003017646025 (CEL)	003017647007 (CEL)	003017647019 (CEL)
	003017646014 (CEL)	003017646026 (CEL)	003017647008 (CEL)	003017647020 (CEL)
High	003017646015 (CEL)	003017646027 (CEL)	003017647009 (CEL)	003017647021 (CEL)
	003017646016 (CEL)	003017646028 (CEL)	003017647010 (CEL)	003017647022 (CEL)
	003017646017 (CEL)	003017646029 (CEL)	003017647011 (CEL)	003017647023 (CEL)

CEL files: (Repeat)

	4day	8day	15day	29day
Control	003017647024 (CEL)	003017648006 (CEL)	003017650030 (CEL)	003017651012 (CEL)
	003017647025 (CEL)	003017648007 (CEL)	003017651001 (CEL)	003017651013 (CEL)
	003017647026 (CEL)	003017648008 (CEL)	003017651002 (CEL)	003017651014 (CEL)
Low	003017647027 (CEL)	003017648009 (CEL)	003017651003 (CEL)	003017651015 (CEL)
	003017647028 (CEL)	003017648010 (CEL)	003017651004 (CEL)	003017651016 (CEL)
	003017647029 (CEL)	003017648011 (CEL)	003017651005 (CEL)	003017651017 (CEL)
Middle	003017647030 (CEL)	003017648012 (CEL)	003017651006 (CEL)	003017651018 (CEL)
	003017648001 (CEL)	003017648013 (CEL)	003017651007 (CEL)	003017651019 (CEL)
	003017648002 (CEL)	003017648014 (CEL)	003017651008 (CEL)	003017651020 (CEL)
High	003017648003 (CEL)	003017648015 (CEL)	003017651009 (CEL)	003017651021 (CEL)
	003017648004 (CEL)	003017648016 (CEL)	003017651010 (CEL)	003017651022 (CEL)
	003017648005 (CEL)	003017648017 (CEL)	003017651011 (CEL)	003017651023 (CEL)

## Detail Data

Compound	Species	Test Type
methapyrilene	Rat	in vivo
Organ	Time(Sacrifico)	Dose Level
Liver	29 day	High
Dose	Chis Type	Sample ID
100 mg/kg	Rat230_2	0174162LRB

Barcode	CEL File
003017651022	Download

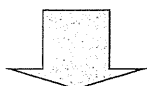
## Hematology

RBC (x10 <sup>6</sup> /uL)	930	Neutrophil (%)	29
Hb (g/dL)	16.6	Eosinophil (%)	0
Ht (%)	48.4	Basophil (%)	0
MCV (fL)	52	Monocyte (%)	5
MCH (pg)	17.8	Lymphocyte (%)	65
MCHC (%)	34.3	PT (s)	15.5
Ret (%)	1.8	APTT (s)	19.4
Plat (x10 <sup>9</sup> /uL)	98.5	Fbg (mg/dL)	158
WBC (x10 <sup>9</sup> /uL)	189.4		

## Biochemistry

ALP (IU/L)	2131	Cl (meq/L)	108
TC (mg/dL)	63	Ca (mg/dL)	9.8
TG (mg/dL)	19	IP (mg/dL)	6.7
PL (mg/dL)	153	TP (g/dL)	5
TBIL (mg/dL)	0.38	RALB (g/dL)	2.8
DBIL (mg/dL)	0.36	A / G	1.2
GLC (mg/dL)	130	AST (GOT) (IU/L)	345
BUN (mg/dL)	16	ALT (GPT) (IU/L)	59
CRE (mg/dL)	0.2	LDH (IU/L)	348
Na (meq/L)	141	gamma-GTP (IU/L)	16
K (meq/L)	4.3		

Continued



## Organ Weight

Terminal Body Weight (g)	293	
Liver (g)	13.76	Relative Liver Weight (%)
		4.7

## Organ Weight

Terminal Body Weight (g)	293		
Liver (g)	13.76	Relative Liver Weight (%)	4.7
Kidney Total (g)	2.42	Relative Kidney Total Weight (%)	0.83
Kidney Right (g)	1.19	Relative Kidney Right Weight (%)	0.41
Kidney Left (g)	1.23	Relative Kidney Left Weight (%)	0.42

## Reserve

Total Glutathione (μmol/g)	4.340	Reduced Glutathione (μmol/g)	13.320
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## Body Weight

Day	1	3	7	10	14	17	21	24	28
g	202	219	245	269.3	286.4	291.5	294.3	297	291.3
Amount of Change		17	26	24.3	17.1	5.1	2.8	2.7	-5.7

## Food Consumption

Day	8	11	15	18	22	25	29		
g/day	25.6	30.9	32.3	28.2	25.6	25.3	22.6		
Amount of Change		5.3	1.4	-4.1	-2.6	-0.3	-2.7		

## Pathology

Pathology Glossary

Organ	Topography	Finding	Grade	Comment	Sp.
Liver	Hepatocyte	Anisonucleosis	slight		
Liver	Hepatocyte	Hyperplasia	slight	with basophilic polygonal cytoplasm show sometime acinar or glandular pattern in periportal	
Liver	Hepatocyte	Hypertrophy	slight	with granular or vacuolar cytoplasm	
Liver	Hepatocyte	Increased mitosis	slight	periportal	
Liver	Hepatocyte	Single cell necrosis	slight	periportal	
Liver	Interlobular	Proliferation, bile duct	moderate		
Liver	Periportal	Cellular infiltration, mononuclear cell	slight	consist of mainly lymphocyte, with a few macrophage or sometime neutrophile	
Kidney	Tubular epithelium	Desquamation	slight	Cortex	o
Kidney	Tubular epithelium	Dilatation	slight	Cortex	o
Kidney	Tubular epithelium	Necrosis	slight	Cortex	o
Kidney	Tubular epithelium	Regeneration	moderate	Including degeneration, basophilic change and increase in mitosis of cortical and medullary tubular epithelium	o

# Open TG-GATEs



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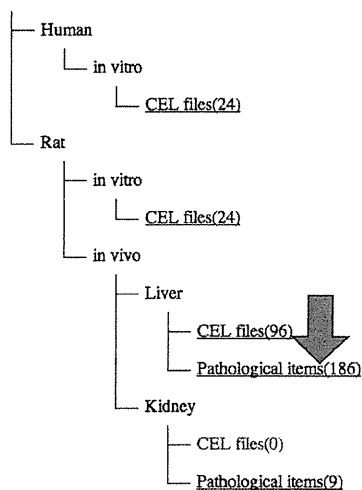
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[利用許諾条件](#)

[お問い合わせ](#)

> [Top](#) > [methapyrilene](#)

## Compound: methapyrilene



# Open TG-GATES



このDBについて    データ検索    公開データ一覧    利用許諾条件    お問い合わせ

> Top > methapyrilene > Rat, in vivo > Liver (Pathological items)

Pathology Glossary  
switch to CEL files

## Compound: methapyrilene

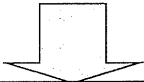
Pathological items: 186 items

Refine by Finding x Dose x Time:

x 
  x 
  x 
  (GO)

No	CEL	Finding	Topography	Grade	Dose	Time	Image
1	003017651021 (CEL)	Alteration, cytoplasmic	Hepatocyte	slight	High	29 day	o
2	003017647021 (CEL)	Anisonucleosis	Hepatocyte	slight	High	24 hr	-
3	003017647022 (CEL)	Anisonucleosis	Hepatocyte	slight	High	24 hr	-
4	003017647023 (CEL)	Anisonucleosis	Hepatocyte	slight	High	24 hr	-
5	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	24 hr	-
6	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	24 hr	-
7	003017648004 (CEL)	Anisonucleosis	Hepatocyte	slight	High	4 day	-
8	003017648005 (CEL)	Anisonucleosis	Hepatocyte	slight	High	4 day	-
9	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	4 day	-
10	003017648015 (CEL)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
11	003017648016 (CEL)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
12	003017648017 (CEL)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
13	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
14	003017651009 (CEL)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
15	003017651010 (CEL)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
16	003017651011 (CEL)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
17	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
18	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
19	003017651021 (CEL)	Anisonucleosis	Hepatocyte	slight	High	29 day	o
20	003017651022 (CEL)	Anisonucleosis	Hepatocyte	slight	High	29 day	-
21	003017651023 (CEL)	Anisonucleosis	Hepatocyte	slight	High	29 day	-
22	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	29 day	-

Continued



22	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	29 day	-
23	003017647009 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	9 hr	-
24	003017647010 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	9 hr	-
25	003017647011 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	9 hr	-
26	No ChipData (-)	Cellular infiltration, mononuclear cell	Periportal	slight	High	9 hr	-
27	No ChipData (-)	Cellular infiltration, mononuclear cell	Periportal	slight	High	9 hr	-
28	003017647021 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	24 hr	-
29	003017647022 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	24 hr	-
30	003017647023 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	24 hr	-
31	No ChipData (-)	Cellular infiltration, mononuclear cell	Periportal	slight	High	24 hr	-
32	No ChipData (-)	Cellular infiltration, mononuclear cell	Periportal	slight	High	24 hr	-
33	003017648003 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	4 day	-
34	003017648004 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	4 day	-
35	003017648005 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	4 day	-
36	No ChipData (-)	Cellular infiltration, mononuclear cell	Periportal	slight	High	4 day	-
37	003017648015 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	8 day	-
38	003017648016 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	8 day	-
39	003017648017 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	8 day	-
40	No ChipData (-)	Cellular infiltration, mononuclear cell	Periportal	slight	High	8 day	-
41	003017651011 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	15 day	-
42	No ChipData (-)	Cellular infiltration, mononuclear cell	Periportal	slight	High	15 day	-
43	003017651021 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	29 day	o
44	003017651022 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	29 day	-
45	003017651023 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	High	29 day	-
46	No ChipData (-)	Cellular infiltration, mononuclear cell	Periportal	slight	High	29 day	-
47	003017647030 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	Middle	4 day	-
48	003017651006 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	Middle	15 day	-
49	003017651007 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	Middle	15 day	-
50	003017651008 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	Middle	15 day	-
51	No ChipData (-)	Cellular infiltration, mononuclear cell	Periportal	slight	Middle	15 day	-
52	No ChipData (-)	Cellular infiltration, mononuclear cell	Periportal	slight	Middle	15 day	-
53	003017651018 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	Middle	29 day	-
54	003017651020 (CEL)	Cellular infiltration, mononuclear cell	Periportal	slight	Middle	29 day	-
55	003017651009 (CEL)	Cellular infiltration, mononuclear cell	Periportal	moderate	High	15 day	-
56	003017651010 (CEL)	Cellular infiltration, mononuclear cell	Periportal	moderate	High	15 day	-
57	No ChipData (-)	Cellular infiltration, mononuclear cell	Periportal	moderate	High	15 day	-
58	No ChipData (-)	DEAD	DEAD	P	High	29 day	-
59	003017651021 (CEL)	Deposit, pigment	Periportal	slight	High	29 day	o
60	003017651023 (CEL)	Deposit, pigment	Periportal	slight	High	29 day	-
61	No ChipData (-)	Deposit, pigment	Periportal	slight	High	29 day	-
62	003017651021 (CEL)	Hyperplasia	Hepatocyte	slight	High	29 day	o
63	003017651022 (CEL)	Hyperplasia	Hepatocyte	slight	High	29 day	-
64	003017651023 (CEL)	Hyperplasia	Hepatocyte	slight	High	29 day	-
65	No ChipData (-)	Hyperplasia	Hepatocyte	slight	High	29 day	-
66	003017646016 (CEL)	Hypertrophy	Hepatocyte	slight	High	3 hr	-
67	003017646027 (CEL)	Hypertrophy	Hepatocyte	slight	High	6 hr	-

# Open TG-GATEs



このDBについて データ検索 公開データ一覧 利用許諾条件 お問い合わせ

> Top > methapyrilene > Rat, in vivo > Liver (Pathological items)

Pathology Glossary

switch to CEL files

## Compound: methapyrilene

Pathological items: 186 items

Refine by Finding x Dose x Time:

Alteration, cytoplasmic x Anisonucleosis (GO)

No	CEL	Finding	Topography	Grade	Dose	Time	Image
1	003017651021 (CEL)	Alteration, cytoplasmic	Hepatocyte	slight	High	29 day	o
2	003017647021 (CEL)	Anisonucleosis	Hepatocyte	slight	High	24 hr	-
3	003017647022 (CEL)	Anisonucleosis	Hepatocyte	slight	High	24 hr	-
4	003017647023 (CEL)	Anisonucleosis	Hepatocyte	slight	High	24 hr	-
5	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	24 hr	-
6	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	24 hr	-
7	003017648004 (CEL)	Anisonucleosis	Hepatocyte	slight	High	4 day	-
8	003017648005 (CEL)	Anisonucleosis	Hepatocyte	slight	High	4 day	-
9	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	4 day	-
10	003017648015 (CEL)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
11	003017648016 (CEL)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
12	003017648017 (CEL)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
13	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
14	003017651009 (CEL)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
15	003017651010 (CEL)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
16	003017651011 (CEL)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
17	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
18	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
19	003017651021 (CEL)	Anisonucleosis	Hepatocyte	slight	High	29 day	o
20	003017651022 (CEL)	Anisonucleosis	Hepatocyte	slight	High	29 day	-
21	003017651023 (CEL)	Anisonucleosis	Hepatocyte	slight	High	29 day	-
22	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	29 day	-

# Open TG-GATEs



このDBについて データ検索 公開データ一覧 利用許諾条件 お問い合わせ

> Top > methapyrilene > Rat, in vivo > Liver (Pathological items)

Pathology Glossary

switch to CEL files

## Compound: methapyrilene

Pathological items: 186 items

Refine by Finding x Dose x Time:

Alteration, cytoplasmic x Anisonucleosis (GO)

No	CEL	Finding	Topography	Grade	Dose	Time	Image
1	003017651021 (CEL)	Alteration, cytoplasmic	Hepatocyte	slight	High	29 day	o
2	003017648004 (CEL)	Anisonucleosis	Hepatocyte	slight	High	4 day	-
3	003017648005 (CEL)	Anisonucleosis	Hepatocyte	slight	High	4 day	-
4	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	4 day	-
5	003017648015 (CEL)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
6	003017648016 (CEL)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
7	003017648017 (CEL)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
8	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
9	003017651009 (CEL)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
10	003017651010 (CEL)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
11	003017651011 (CEL)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
12	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
13	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
14	003017651021 (CEL)	Anisonucleosis	Hepatocyte	slight	High	29 day	o
15	003017651022 (CEL)	Anisonucleosis	Hepatocyte	slight	High	29 day	-
16	003017651023 (CEL)	Anisonucleosis	Hepatocyte	slight	High	29 day	-
17	No ChipData (-)	Anisonucleosis	Hepatocyte	slight	High	29 day	-

# Open TG-GATEs



このDBについて データ検索 公開データ一覧 利用許諾条件 お問い合わせ

> Top > methapyrilene > Rat, in vivo > Liver (Pathological items)

Pathology Glossary

switch to CEL files

## Compound: methapyrilene

Pathological items: 186 items

Refine by Finding x Dose x Time:

Increased mitosis x High x (GO)

No	CEL	Finding	Topography	Grade	Dose	Time	Image
1	003017651021 (CEL)	Alteration, c	Hepatocyte	slight	High	29 day	o
2	003017647021 (CEL)	Anisonu	Hepatocyte	slight	High	24 hr	-
3	003017647022 (CEL)	Anisonu	Hepatocyte	slight	High	24 hr	-
4	003017647023 (CEL)	Anisonu	Hepatocyte	slight	High	24 hr	-
5	No ChipData (→)	Anisonucleosis	Hepatocyte	slight	High	24 hr	-
6	No ChipData (→)	Anisonucleosis	Hepatocyte	slight	High	24 hr	-
7	003017648004 (CEL)	Anisonucleosis	Hepatocyte	slight	High	4 day	-
8	003017648005 (CEL)	Anisonucleosis	Hepatocyte	slight	High	4 day	-
9	No ChipData (→)	Anisonucleosis	Hepatocyte	slight	High	4 day	-
10	003017648015 (CEL)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
11	003017648016 (CEL)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
12	003017648017 (CEL)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
13	No ChipData (→)	Anisonucleosis	Hepatocyte	slight	High	8 day	-
14	003017651009 (CEL)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
15	003017651010 (CEL)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
16	003017651011 (CEL)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
17	No ChipData (→)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
18	No ChipData (→)	Anisonucleosis	Hepatocyte	slight	High	15 day	-
19	003017651021 (CEL)	Anisonucleosis	Hepatocyte	slight	High	29 day	o
20	003017651022 (CEL)	Anisonucleosis	Hepatocyte	slight	High	29 day	-
21	003017651023 (CEL)	Anisonucleosis	Hepatocyte	slight	High	29 day	-
22	No ChipData (→)	Anisonucleosis	Hepatocyte	slight	High	29 day	-

# Open TG-GATEs



このDBについて データ検索 公開データ一覧 利用許諾条件 お問い合わせ

> Top > methapyrilene > Rat, in vivo > Liver (Pathological items)

Pathology Glossary

switch to CEL files

## Compound: methapyrilene

Pathological items: 10 items

Refine by Finding x Dose x Time:

Increased mitosis x High x (GO)

No	CEL	Finding	Topography	Grade	Dose	Time	Image
1	003017648004 (CEL)	Increased mitosis	Hepatocyte	slight	High	4 day	-
2	003017648005 (CEL)	Increased mitosis	Hepatocyte	slight	High	4 day	-
3	No ChipData (→)	Increased mitosis	Hepatocyte	slight	High	4 day	-
4	No ChipData (→)	Increased mitosis	Hepatocyte	slight	High	4 day	-
5	003017648015 (CEL)	Increased mitosis	Hepatocyte	slight	High	8 day	-
6	003017648017 (CEL)	Increased mitosis	Hepatocyte	slight	High	8 day	-
7	No ChipData (→)	Increased mitosis	Hepatocyte	slight	High	8 day	-
8	003017651021 (CEL)	Increased mitosis	Hepatocyte	slight	High	29 day	o
9	003017651022 (CEL)	Increased mitosis	Hepatocyte	slight	High	29 day	-
10	003017651023 (CEL)	Increased mitosis	Hepatocyte	slight	High	29 day	-

### Detail Data

Compound	Species	Test Type
metharyrlene	Rat	In vivo
Organ	Time(Sacrifice)	Dose Level
Liver	29 day	High
Dose	Chip Type	Sample ID
100 mg/kg	Rat230_2	0174161LRB

Barcode	CEL File
003017651021	Download

### Hematology

RBC (x10 <sup>9</sup> /uL)	757	Neutrophil (%)	41
Hb (g/dL)	13.8	Eosinophil (%)	1
Ht (%)	41.5	Basophil (%)	0
MCV (fL)	54.8	Monocyte (%)	5
MCH (pg)	18.3	Lymphocyte (%)	51
MCHC (%)	33.3	PT (s)	25.2
Ret (%)	3.1	APTT (s)	34
Plat (x10 <sup>3</sup> /uL)	58.8	Fbg (mg/dL)	275
WBC (x10 <sup>2</sup> /uL)	219.4		

### Biochemistry

ALP (IU/L)	1091	Cl (meq/L)	109
TC (mg/dL)	26	Ca (mg/dL)	8.3
TG (mg/dL)	13	IP (mg/dL)	7.7
PL (mg/dL)	61	TP (g/dL)	2.7
TBIL (mg/dL)	1.39	RALB (g/dL)	1.2
DBIL (mg/dL)	1.4	A / G	0.8
GLC (mg/dL)	109	AST (GOT) (IU/L)	445
BUN (mg/dL)	10	ALT (GPT) (IU/L)	158
CRE (mg/dL)	0.2	LDH (IU/L)	357
Na (meq/L)	138	gamma-GTP (IU/L)	11
K (meq/L)	3.8		

Continued



### Organ Weight

Terminal Body Weight (g)	213.3		
Liver (g)	8.23	Relative Liver Weight (%)	3.86

### Organ Weight

Terminal Body Weight (g)	213.3		
Liver (g)	8.23	Relative Liver Weight (%)	3.86
Kidney Total (g)	2.17	Relative Kidney Total Weight (%)	1.02
Kidney Right (g)	1.08	Relative Kidney Right Weight (%)	0.51
Kidney Left (g)	1.09	Relative Kidney Left Weight (%)	0.51

### Reserve

Total Glutathione (μmol/g)	3.450	Reduced Glutathione (μmol/g)	10.610
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### Body Weight

Day	1	3	7	10	14	17	21	24	28
g	192.9	197	203.7	209.3	218.7	220	223	225.8	206
Amount of Change		4.1	6.7	5.6	9.4	1.3	3	2.8	-19.8

### Food Consumption

Day	8	11	15	18	22	25	29		
g/day	18.9	20.7	21.7	18.2	17.6	16.3	11.4		
Amount of Change		1.8	1	-3.5	-0.6	-1.3	-4.9		

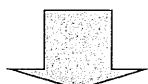
### Pathology

Pathology Glossary

Organ	Topography	Finding	Grade	Comment	Sp.
Liver	Hepatocyte	Alteration, cytoplasmic	slight	altered focus, eosinophilic	
Liver	Hepatocyte	Anisonucleosis	slight		
Liver	Hepatocyte	Hypertrophy	slight	with basophilic polygonal cytoplasm show sometime acinar or glandular pattern in periportal	
Liver	Hepatocyte	Hypertrophy	slight	with granular or vacuolar or fatty cytoplasm	
Liver	Hepatocyte	Increased mitosis	slight	periportal	
Liver	Hepatocyte	Single cell necrosis	slight	periportal	
Liver	Interlobular	Proliferation, bile duct	moderate		
Liver	Periportal	Cellular infiltration, mononuclear cell	slight	consist of mainly lymphocyte, with a few macrophage or sometime neutrophilic	
Liver	Periportal	Deposit, pigment	slight	macrophage	

Remark) Sp. = Spontaneous

Continued



### Image Data



## Image Data

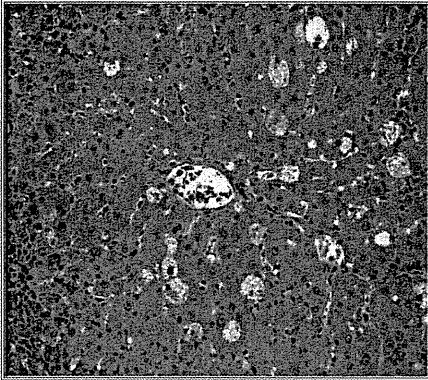
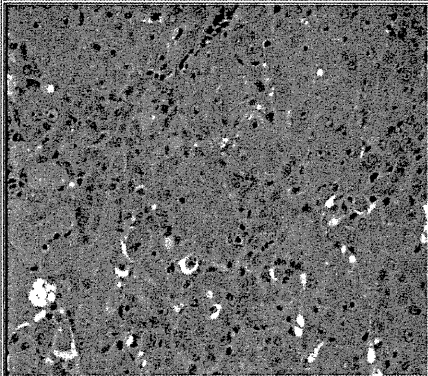
Image	Caption	
	Image Name	025rep_28dH1316_LIV1.jpg
	Stain	HE
	Findings	Anisonucleosis/Hepatocyte; Hypertrophy/Hepatocyte

Image	Caption	
	Image Name	025rep_28dH1316_LIV2.jpg
	Stain	HE
	Findings	Deposit, pigment/Periportal; Single cell necrosis/Hepatocyte

Continued

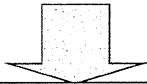
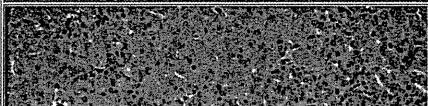


Image	Caption	
	Image Name	025rep_28dH1316_LIV3.jpg
	Stain	HE
	Findings	

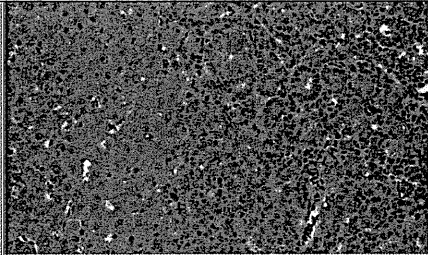
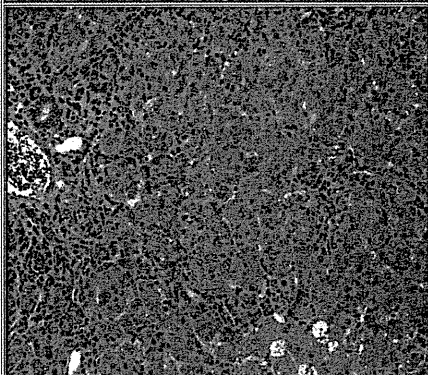
	Findings	Cellular infiltration, mononuclear cell/Periportal; Hyperplasia/Hepatocyte
---	----------	--

Image	Caption	
	Image Name	025rep_28dH1316_LIV4.jpg
	Stain	HE
	Findings	Increased, mitosis/Hepatocyte

Continued

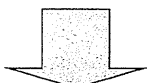
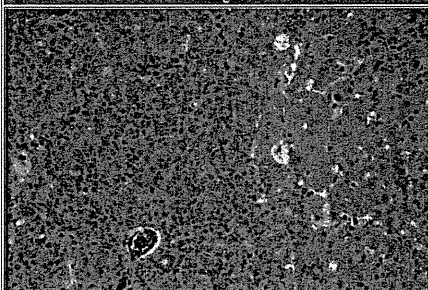


Image	Caption	
	Image Name	025rep_28dH1316_LIV5.jpg
	Stain	HE
	Findings	Proliferation, bile duct/Interlobular



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[このDBについて](#)

[データ検索](#)

[公開データ一覧](#)

[利用許諾条件](#)

[お問合せ](#)

[> Top](#)

CompoundかPathologyのどちらか一つの検索条件を選択し[Search]をクリックしてください。

## Compound List

select compound

- acarbose
- acetamidofluorene
- acetaminophen
- acetazolamide
- adapin
- ajmaline
- allopurinol
- allyl alcohol
- amiodarone
- amitriptyline

上記化合物を一つ選択してください



生物種・実験条件の選択画面に進みます

## Pathology List

select organ

Liver  Kidney

LiverかKidneyのどちらかを選択してください



病理所見の選択画面に進みます

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# Open TG-GATEs



[このDBについて](#)

[データ検索](#)

[公開データ一覧](#)

[利用許諾条件](#)

[お問合せ](#)

[> Top > Liver](#)

Pathology Glossary

## Organ: Liver

- Accumulation, foam cell (1 Topographies)
- Adenoma, hepatocellular (1 Topographies)
- Alteration, cytoplasmic (2 Topographies)
- Alteration, nuclear (2 Topographies)
- Altered hepatocellular foci (1 Topographies)
- Anisonucleosis (1 Topographies)
- Atrophy (4 Topographies)
- Atypia, nuclear (1 Topographies)
- Bacterium (1 Topographies)
- Cellular foci (2 Topographies)
- Cellular infiltration (3 Topographies)
- Cellular infiltration, mononuclear cell (2 Topographies)
- Cellular infiltration, neutrophil (1 Topographies)
- Change, acidophilic (3 Topographies)
- Change, basophilic (3 Topographies)
- Change, eosinophilic (3 Topographies)
- Congestion (1 Topographies)
- Cyst (1 Topographies)
- DEAD (1 Topographies)
- Degeneration, acidophilic, eosinophilic (1 Topographies)
- Degeneration, fatty (3 Topographies)
- Degeneration, granular, eosinophilic (3 Topographies)
- Degeneration, hydropic (1 Topographies)
- Degeneration, vacuolar (1 Topographies)
- Deposit, glycogen (4 Topographies)
- Deposit, hemosiderin (2 Topographies)
- Deposit, lipid (1 Topographies)
- Deposit, pigment (3 Topographies)
- Dilatation (1 Topographies)
- Disarrangement (1 Topographies)
- Ectopic tissue (1 Topographies)
- Edema (1 Topographies)
- Fibrosis (3 Topographies)
- Giant cell (1 Topographies)
- Granuloma (2 Topographies)
- Ground glass appearance (1 Topographies)
- Hematopoiesis, extramedullary (3 Topographies)
- Hemorrhage (3 Topographies)

Continued



Atrophy (4 Topographies)  
 Atypia, nuclear (1 Topographies)  
 Bacterium (1 Topographies)  
 Cellular foci (2 Topographies)  
 Cellular infiltration (8 Topographies)  
 Cellular infiltration, mononuclear cell (2 Topographies)  
 Cellular infiltration, neutrophil (1 Topographies)  
 Change, acidophilic (3 Topographies)  
 Change, basophilic (3 Topographies)  
 Change, eosinophilic (6 Topographies)  
 Congestion (1 Topographies)  
 Cyst (1 Topographies)  
 DEAD (1 Topographies)  
 Degeneration, acidophilic, eosinophilic (1 Topographies)  
 Degeneration, fatty (3 Topographies)  
 Degeneration, granular, eosinophilic (3 Topographies)  
 Degeneration, hydropic (1 Topographies)  
 Degeneration, vacuolar (1 Topographies)  
 Deposit, glycogen (4 Topographies)  
 Deposit, hemosiderin (2 Topographies)  
 Deposit, lipid (1 Topographies)  
 Deposit, pigment (3 Topographies)  
 Dilatation (1 Topographies)  
 Disarrangement (1 Topographies)  
 Ectopic tissue (1 Topographies)  
 Edema (1 Topographies)  
 Fibrosis (5 Topographies)  
 Giant cell (1 Topographies)  
 Granuloma (2 Topographies)  
 Ground glass appearance (1 Topographies)  
 Hematopoiesis, extramedullary (3 Topographies)  
 Hemorrhage (3 Topographies)  
 Hyperplasia (1 Topographies)  
 Hypertrophy (9 Topographies)  
 Inclusion body, intracytoplasmic (3 Topographies)  
 Increased mitosis (5 Topographies)  
 Inflammation (1 Topographies)  
 Inflammation, foreign body (1 Topographies)  
 Inflammation, suppurative (1 Topographies)  
 Lesion,NOS (2 Topographies)  
 Microgranuloma (2 Topographies)  
 Mineralization (3 Topographies)  
 NA (1 Topographies)  
 Necrosis (8 Topographies)  
 Nodule, hepatodiaphragmatic (1 Topographies)  
 Phagocytosis (1 Topographies)  
 Proliferation (1 Topographies)  
 Proliferation, bile duct (3 Topographies)  
 Proliferation, Kupffer cell (4 Topographies)  
 Proliferation, oval cell (2 Topographies)  
 Scar (3 Topographies)  
 Single cell necrosis (4 Topographies)  
 Swelling (1 Topographies)  
 Thrombus (1 Topographies)  
 Vacuolization, cytoplasmic (11 Topographies)  
 Vacuolization, nuclear (3 Topographies)



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独立行政法人 医薬基盤研究所  
 National Institute of Biomedical Innovation

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[このDBについて](#)

[データ検索](#)

[公開データ一覧](#)

[利用許諾条件](#)

[お問合せ](#)

> [Top](#) > [Liver](#) > [Increased mitosis](#)

Pathology Glossary

## Finding: Increased mitosis

All (380 Pathological items)

28 compounds

Bile duct cell (19 Pathological items)

1 compounds

Centrilobular (4 Pathological items)

1 compounds

Hepatocyte (232 Pathological items)

21 compounds

Midlobular (76 Pathological items)

2 compounds



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# Open TG-GATES



このDBについて データ検索 公開データ一覧 利用許諾条件 お問い合わせ

> Top > Liver > Increased mitosis > Hepatocyte

Pathology Glossary

## Topography: Hepatocyte

Pathological Items: 232 items

Refine by Compound:

Refine by Dose x Time:

bendazac x [GO] [GO]

No	CEL	Compound	Finding	Topography	Grade	Dose	Time	Image
1	No ChipData (→)	bendazac	Increased mitosis	Hepatocyte	minimal	High	3 hr	-
2	003017456028 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	High	4 day	-
3	003017456029 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	High	4 day	-
4	003017456030 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	High	4 day	-
5	No ChipData (→)	bendazac	Increased mitosis	Hepatocyte	minimal	High	4 day	-
6	003017491017 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	Middle	3 hr	-
7	No ChipData (→)	bendazac	Increased mitosis	Hepatocyte	minimal	Middle	3 hr	-
8	No ChipData (→)	bendazac	Increased mitosis	Hepatocyte	minimal	Middle	3 hr	-
9	003017456027 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	Middle	4 day	-
10	No ChipData (→)	bendazac	Increased mitosis	Hepatocyte	minimal	Middle	4 day	-
11	003017457009 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	Middle	8 day	-
12	003017491012 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	Low	3 hr	-
13	003017456024 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	Low	4 day	-

Continued

# Open TG-GATES



このDBについて データ検索 公開データ一覧 利用許諾条件 お問い合わせ

> Top > Liver > Increased mitosis > Hepatocyte

Pathology Glossary

- bendazac
- benzoclorone
- coumarin
- danazol
- ethambutol
- ethinylestradiol
- ethionamide
- fenofibrate
- gemfibrozil
- hexachlorobenzene
- ibuprofen
- ketoconazole
- methapyrilene
- methytestosterone
- nifedipine
- nimesulide
- papaverine
- phenylbutazone
- propylthiouracil
- puromycin aminonucleoside
- WY-14643

Refine by Dose x Time:

[GO] [GO]

Compound	Finding	Topography	Grade	Dose	Time	Image
bendazac	Increased mitosis	Hepatocyte	minimal	High	3 hr	-
bendazac	Increased mitosis	Hepatocyte	minimal	High	4 day	-
3 003017456029 (CEL)	Increased mitosis	Hepatocyte	minimal	High	4 day	-
4 003017456030 (CEL)	Increased mitosis	Hepatocyte	minimal	High	4 day	-
5 No ChipData (→)	Increased mitosis	Hepatocyte	minimal	High	4 day	-
6 003017491017 (CEL)	Increased mitosis	Hepatocyte	minimal	Middle	3 hr	-
7 No ChipData (→)	Increased mitosis	Hepatocyte	minimal	Middle	3 hr	-
8 No ChipData (→)	Increased mitosis	Hepatocyte	minimal	Middle	3 hr	-
9 003017456027 (CEL)	Increased mitosis	Hepatocyte	minimal	Middle	4 day	-
10 No ChipData (→)	Increased mitosis	Hepatocyte	minimal	Middle	4 day	-
11 003017457009 (CEL)	Increased mitosis	Hepatocyte	minimal	Middle	8 day	-
12 003017491012 (CEL)	Increased mitosis	Hepatocyte	minimal	Low	3 hr	-
13 003017456024 (CEL)	Increased mitosis	Hepatocyte	minimal	Low	4 day	-

# Open TG-GATEs



このDBについて データ検索 公開データ一覧 利用許諾条件 お問い合わせ

> Top > Liver > Increased mitosis > Hepatocyte

Pathology Glossary

## Topography: Hepatocyte

Pathological items: 232 items

Refine by Compound:

Refine by Dose x Time:

methapyrilene (GO) High x 29 day (GO)

3 hr  
6 hr  
9 hr  
24 hr  
4 day  
8 day  
15 day



No	CEL	Compound	Finding	Topography	Grade	Dose	Time	Image
1	No ChipData (-)	bendazac	Increased mitosis	Hepatocyte	minimal	High	3 hr	-
2	003017456028 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	High	4 day	-
3	003017456029 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	High	4 day	-
4	003017456030 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	High	4 day	-
5	No ChipData (-)	bendazac	Increased mitosis	Hepatocyte	minimal	High	4 day	-
6	003017491017 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	Middle	3 hr	-
7	No ChipData (-)	bendazac	Increased mitosis	Hepatocyte	minimal	Middle	3 hr	-
8	No ChipData (-)	bendazac	Increased mitosis	Hepatocyte	minimal	Middle	3 hr	-
9	003017456027 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	Middle	4 day	-
10	No ChipData (-)	bendazac	Increased mitosis	Hepatocyte	minimal	Middle	4 day	-
11	003017457009 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	Middle	8 day	-
12	003017491012 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	Low	3 hr	-
13	003017456024 (CEL)	bendazac	Increased mitosis	Hepatocyte	minimal	Low	4 day	-

# Open TG-GATEs



このDBについて データ検索 公開データ一覧 利用許諾条件 お問い合わせ

> Top > Liver > Increased mitosis > Hepatocyte

Pathology Glossary

## Topography: Hepatocyte

Pathological items: 3 items

Refine by Compound:

Refine by Dose x Time:

methapyrilene (GO)

High x 29 day (GO)

No	CEL	Compound	Finding	Topography	Grade	Dose	Time	Image
1	003017651021 (CEL)	methapyrilene	Increased mitosis	Hepatocyte	slight	High	29 day	o
2	003017651022 (CEL)	methapyrilene	Increased mitosis	Hepatocyte	slight	High	29 day	-
3	003017651023 (CEL)	methapyrilene	Increased mitosis	Hepatocyte	slight	High	29 day	-

資料

病理所見用語集

1 肝臓 ..... 2  
 (1) Topography..... 2  
 (2) Findings (非腫瘍性病変) ..... 5  
 (3) Findings (腫瘍性病変) ..... 10  
 2 腎臓 ..... 12  
 (1) Topography..... 12  
 (2) Findings (非腫瘍性病変) ..... 14  
 (3) Findings (腫瘍性病変) ..... 18  
 3 Qualifier (Distribution) ..... 20  
 4 Grade ..... 21

本用語集は国立医薬品食品衛生研究所のホームページに掲載されている病理所見用語集 (<http://www.nihs.go.jp/center/yougo/byouri.html>, 1994年) を一部改変したものである。

2007年2月28日

トキシコゲノミクスプロジェクト

毒性病理部門

1 肝臓  
 (1) Topography

TYPE_ID	英語名	日本語名
TO-L0001	DEAD	死亡
TO-L0002	NA	観察対象外
TO-L0010	Acinus	細葉
TO-L0020	Arteriole	細動脈
TO-L0030	Artery	動脈
TO-L0040	Artery, celiac	腹腔動脈
TO-L0050	Artery, hepatic	肝動脈
TO-L0060	Artery, interlobular	小葉間動脈
TO-L0070	Bile canaliculoductular junction	毛細・細胆管接合部 (介在部)
TO-L0080	Bile canaliculus	毛細胆管
TO-L0090	Bile duct	胆管
TO-L0100	Bile duct, interlobular	小葉間胆管
TO-L0110	Bile duct cell	胆管細胞
TO-L0120	Bile ductule	細胆管
TO-L0130	Biliary tract	胆道
TO-L0140	Blood vessel	血管
TO-L0150	Capillary	毛細血管
TO-L0160	Capillary, sinusoidal	洞様毛細血管
TO-L0170	Caudate lobe	尾状葉 (尾状突起、乳頭突起)
TO-L0180	Centrilobular	小葉中心性
TO-L0190	Cholangiocyte	胆管細胞
TO-L0200	Choledochus	総胆管
TO-L0210	Common bile duct	総胆管
TO-L0220	Connective tissue	結合組織
TO-L0230	Connective tissue, interlobular	小葉間結合組織
TO-L0240	Connective tissue, periportal	門脈周囲結合組織
TO-L0250	Disse's space	ディッセ腔
TO-L0260	Endothelium	内皮細胞
TO-L0270	Fat storing cell	脂肪蓄積細胞
TO-L0280	Glisson's sheath	グリソン鞘 (囊)
TO-L0290	Hepatic cord	肝細胞索
TO-L0300	Hepatic duct	肝管
TO-L0310	Hepatic plate	肝細胞板
TO-L0320	Hepatocyte	肝細胞
TO-L0330	Hering duct	ヘリング管
TO-L0340	Hilus hepatis	肝門