Per- and polyfluoroalkyl substances: evaluation of liver effects using in vivo data - PFAS/2023/06

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This is a paper for discussion. This does not represent the views of the Committee and should not be cited.

ACO Acyl-CoA oxidase

Acox1 Acyl-CoA oxidase 1

ALP Alkaline phosphatase

ALT Alanine aminotransferase

AKR1C1 Aldo-Keto Reductase 1C1

Apo Apolipoprotein

APOA Apolipoprotein A

AST Aspartate aminotransferase

CAR Constitutive androstane receptor

CAS Chemical abstracts service

CAT Catalase

Cd36 Cluster of differentiation molecule 36

CHE Cholinesterase

COT Committee on Toxicity

Cpt-1A Carnitine palmitoyltransferase 1A

Cyp Cytochrome P450

DIO1 Type 1 deiodinase, iodothyronine deiodinase type 1

EFSA European Food Safety Authority

FA Fatty acid

FDA Food and Drug Administration

Fasn Fatty acid synthase

G6PC Glucose 6-phosphatase enzyme

GD Gestational day

GL Guideline

GLP Good laboratory practice

HBGV Health-based guidance value

HDL High density lipoprotein

IL-1β Interleukin-1β

i.p. Intraperitoneal

LOAEL Lowest observed adverse effect level

mRNA Messenger ribonucleic acid

Myd88 Myeloid differentiation primary response 88

NA Not applicable

NAM New approach methodology

ND Not detected

NOAEL No observed adverse effect level

NR Not reported

NTP National Toxicology Program

OECD Organisation for Economic Co-operation and Development

PCNA Proliferating cell nuclear antigen

PEPCK Phosphoenolpyruvate carboxykinase

PFAS Per- and polyfluoroalkyl substances

PFBA Perfluorobutanoate / Perfluorobutanoic acid

PFCA Perfluoroalkyl carboxylic acid

PFDA Perfluorodecanoate / Perfluorodecanoic acid

PFDoDA Perfluorododecanoic acid

PFHxA Perfluorohexanoate / Perfluorohexanoic acid

PFHxDA Perfluorohexadecanoic acid

PFNA Perfluorononanoate / Perfluorononanoic acid

PFOA Perfluorooctanoate / Perfluorooctanoic acid

PFODA Perfluorooctadecanoic acid

PFTeDA Perfluorotetradecanoate / Perfluorotetradecanoic acid

PFUnDA Perfluoroundecanoic acid

PND Postnatal day

POD Point of departure

Por Cytochrome P450 oxidoreductase

PPARα Peroxisome proliferator-activated receptor-α

PXR Pregnane X receptor

QA Quality assurance

SD Standard deviation

SDH Sorbitol dehydrogenase

Srebf1/2 Sterol regulatory element-binding transcription factor 1/2

TG Triglycerides

TGF-β transforming growth factor-β

TBA Thiobarbituricacid

TLR-4 Toll-like receptor-4

TP Total protein

TNF-α Tumour necrosis factor

Traf6 TNF receptor associated factor 6

UGT Uridine diphospho-glucuronosyl transferase

VLDL Very low-density lipoprotein