資料２－１

選定された文献（実験動物）

通しNo.	エンドポイント	評価値算出機関	区分	タイトル	年	著者	雑誌
1	生殖・発生	ATSDR 2021	POD	Effects of developmental exposure to perfluorooctanoic acid (PFOA) on long bone morphology and bone cell differentiation	2016	Koskela et al.	Toxicol Appl Pharmacol
2	生殖・発生	EPA 2016 (PFOA) FSANZ 2017	POD	Effects of perfluorooctanoic acid exposure during pregnancy in the mouse	2006	Lau et al.	Toxicol Sci
3	生殖・発生	EPA 2016 (PFOS) ATSDR 2021 FSANZ 2017	POD	Two-generation reproduction and cross-foster studies of perfluorooctanesulfonate (PFOS) in rats	2005a	Luebker et al.	Toxicology
4	生殖・発生	EPA 2023 (PFOS)	POD候補	Neonatal mortality from in utero exposure to perfluorooctanesulfonate (PFOS) in Sprague-Dawley rats: dose-response, and biochemical and pharamacokinetic parameters	2005b	Luebker et al.	Toxicology
5	生殖・発生	EPA 2023 (PFOA)	POD候補	Effects of perfluorooctanoic acid exposure during pregnancy on the reproduction and development of male offspring mice	2018	Song et al.	Andrologia
6	生殖・発生	EPA 2023 (PFOA)	POD候補	Perfluorooctanoic acid exposure during pregnancy alters the apoptosis of uterine cells in pregnant mice.	2018	Li et al.	Int J Clin Exp Pathol
7	生殖・発生	EPA 2023 (PFOS)	POD候補	Effects of perfluorooctane sulfuric acid on placental PRL-family hormone production and fetal growth retardation in mice.	2015	Lee et al.	Mol Cell Endocrinol
8	生殖・発生	EFSA 2020	POD候補	Prenatal perfluorooctanoic acid exposure in CD-1 mice: low-dose developmental effects and internal dosimetry.	2011	Macon et al.	Toxicol Sci
9	生殖・発生	EFSA 2020	POD候補	The mammary gland is a sensitive pubertal target in CD-1 and C57Bl/6 mice following perinatal perfluorooctanoic acid (PFOA) exposure.	2015	Tucker et al.	Reprod Toxicol
10	生殖・発生	EFSA 2020	POD候補	Gestational and chronic low-dose PFOA exposures and mammary gland growth and differentiation in three generations of CD-1 mice.	2011	White et al.	Environ Health Perspect
11	生殖・発生			Perfluorooctanoic acid induced developmental toxicity in the mouse is dependent on expression of peroxisome proliferator activated receptor-alpha	2007	Abbott et al.	Toxicol Sci
12	生殖・発生			Maternal exposure causes mitochondrial dysfunction in brain, liver, and heart of mouse fetus: An explanation for perfluorooctanoic acid induced abortion and developmental toxicity	2019	Salimi et al.	Environ Toxicol

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13	生殖・発生			Developmental toxicity of perfluorooctanoic acid in the CD-1 mouse after cross-foster and restricted gestational exposures	2007	Wolf et al.	Toxicol Sci
14	生殖・発生			Effects of perfluorooctanoic acid (PFOA) exposure to pregnant mice on reproduction	2010	Yahia et al.	J Toxicol Sci
15	生殖・発生			Neonatal death of mice treated with perfluorooctane sulfonate	2008	Yahia et al.	J Toxicol Sci
16	生殖・発生			Combined effects of perfluorooctane sulfonate (PFOS) and maternal restraint stress on hypothalamus adrenal axis (HPA) function in the offspring of mice	2010	Ribes et al.	Toxicol Appl Pharmacol
17	生殖・発生			Gestational and lactational exposure to potassium perfluorooctanesulfonate (K+PFOS) in rats: developmental neurotoxicity	2009	Butenhoff et al.	Reprod Toxicol
18	生殖・発生			Effects of prenatal perfluorooctane sulfonate (PFOS) exposure on lung maturation in the perinatal rat	2003	Grasty et al.	Birth Defects Res B Dev Reprod Toxicol
19	生殖・発生			Prenatal window of susceptibility to perfluorooctane sulfonate-induced neonatal mortality in the Sprague-Dawley rat	2003	Grasty et al.	Birth Defects Res B Dev Reprod Toxicol
20	生殖・発生			Exposure to perfluorooctane sulfonate during pregnancy in rat and mouse. II: Postnatal Evaluation	2003	Lau et al.	Toxicol Sci
21	生殖・発生			Exposure to perfluorooctane sulfonate during pregnancy in rat and mouse. I: Maternal and Prenatal Evaluations	2003	Thibodeaux et al.	Toxicol Sci
22	生殖・発生			Effects of developmental perfluorooctane sulfonate exposure on spatial learning and memory ability of rats and mechanism associated with synaptic plasticity	2015	Wang et al.	Food Chem Toxicol
23	生殖・発生			Window of susceptibility to perfluoroctane sulfonate (PFOS)-induced neonatal mortality in the rat	2003	Grasty et al.	Res B Dev Reprod Toxicol
24	生殖・発生			Glucose and lipid homeostasis in adult rat is impaired by early-life exposure to perfluorooctane sulfonate	2014	Lv et al.	Environ Toxicol
25	生殖・発生			Gestational and lactational exposure to potassium perfluorooctanesulfonate (K+PFOS) in rats: toxicokinetics, thyroid hormone status, and related gene expression	2009	Chang et al.	Reprod Toxicol
26	生殖・発生			Prenatal and postnatal impact of perfluorooctane sulfonate (PFOS) on rat development: a cross-foster study on chemical burden and thyroid hormone system	2009	Yu et al.	Environ Sci Technol

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27	生殖・発生			Perfluorooctane sulfonate induces apoptosis of hippocampal neurons in rat offspring associated with calcium overload	2015	Wang et al.	Toxicology Research
28	生殖・発生			Inflammation-like glial response in rat brain induced by prenatal PFOS exposure	2011	Zeng et al.	Neurotoxicology
29	生殖・発生			Developmental perfluorooctane sulfonate exposure inhibits long-term potentiation by affecting AMPA receptor trafficking	2019	Zhang et al.	Toxicology

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30	代謝	Health Canada 2018 (PFOA)	POD	13-week dietary toxicity study of ammonium perfluorooctanoate (APFO) in male rats	2004	Perkins et al.	Drug Chem Toxicol
31	代謝	ATSDR 2021 ANSES 2017	POD	Evaluation of potential reproductive and developmental toxicity of potassium perfluorohexanesulfonate in Sprague Dawley rats	2009	Butenhoff et al.	Reprod Toxicol
32	代謝		専門委員／専門参考人選択	Involvement of oxidative stress and inflammation in liver injury caused by perfluorooctanoic acid exposure in mice	2014	Yang et al.	Biomed Res Int
33	代謝		専門委員／専門参考人選択	Subchronic toxicity studies on perfluorooctanesulfonate potassium salt in cynomolgus monkeys	2002	Seacat et al.	Toxicol Sci
34	代謝		専門委員／専門参考人選択	Perfluorooctanoic acid-induced hepatic toxicity following 21-day oral exposure in mice	2008	Son et al.	Arch Toxicol
35	代謝			The effects of perfluorooctanoate on high fat diet induced non-alcoholic fatty liver disease in mice	2019	Li et al.	Toxicology
36	代謝			Adverse bioeffect of perfluorooctanoic acid on liver metabolic function in mice	2018	Wu et al.	Environ Sci Pollut Res Int
37	代謝			Comparative hepatic effects of perfluorooctanoic acid and WY 14,643 in PPAR-alpha knockout and wild-type mice	2008	Wolf et al.	Toxicol Pathol
38	代謝			Gene expression profiling in wild-type and PPARα-null mice exposed to perfluorooctane sulfonate reveals PPARα-independent effects	2010	Rosen et al.	PPAR Research
39	代謝			Effects of perfluoro fatty acids on peroxisome proliferation and mitochondrial size in mouse liver: Dose and time factors and effect of chain length	1993	Permadi et al.	Xenobiotica
40	代謝			Animal toxicity studies with ammonium perfluorooctanoate	1980	Griffith and Long	Am Ind Hyg Assoc J
41	代謝			Studies on the toxicological effects of PFOA and PFOS on rats using histological observation and chemical analysis	2009	Cui et al.	Arch Environ Contam Toxicol
42	代謝			Inhalation toxicity of ammonium perfluorooctanoate	1986	Kennedy et al.	Food Chem Toxicol

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43	代謝			Characterization of hepatic responses of rat to administration of perfluorooctanoic and perfluorodecanoic acids at low levels	1995	Kawashima et al.	Toxicology
44	代謝			Mechanisms of extrahepatic tumor induction by peroxisome proliferators in male CD rats	2001	Biegel et al.	Toxicol Sci
45	代謝			Induction of apoptosis and CYP4A1 expression in Sprague-Dawley rats exposed to low doses of perfluorooctane sulfonate	2011	Kim et al.	J Toxicol Sci
46	代謝			Gene expression profiles in rat liver treated with perfluorooctanoic acid (PFOA)	2006	Guruge et al.	Toxicol Sci
47	代謝			Toxicity of ammonium perfluorooctanoate in male cynomolgus monkeys after oral dosing for 6 months	2002	Butenhoff et al.	Toxicol Sci
48	免疫	EPA 2023 (PFOS)	POD候補	NTP technical report on the toxicity studies of perfluoroalkyl sulfonates (perfluorobutane sulfonic acid, perfluorohexane sulfonate potassium salt, and perfluorooctane sulfonic acid) administered by gavage to Sprague Dawley (Hsd:Sprague Dawley SD) rats	2019	NTP	-
49	免疫	EPA 2023 (PFOA)	POD候補	Perfluorooctanoic acid-induced immunomodulation in adult C57BL/6J or C57BL/6N female mice	2008	Dewitt et al.	Environ Health Perspect
50	免疫	EPA 2023 (PFOS)	POD候補	Testosterone-Mediated Endocrine Function and TH1/TH2 Cytokine Balance after Prenatal Exposure to Perfluorooctane Sulfonate: By Sex Status.	2016	Zhong et al.	Int J Mol Sci
51	免疫	EPA 2023 (PFOA)	POD候補	Evaluation of the immune system in rats and mice administered linear ammonium perfluorooctanoate.	2008	Loveless et al.	Toxicol Sci
52	免疫		専門委員／専門参考人選択	Chronic effects of perfluorooctanesulfonate exposure on immunotoxicity in adult male C57BL/6 mice	2009	Dong et al.	Arch Toxicol
53	免疫		専門委員／専門参考人選択	Suppression of humoral immunity in mice following exposure to perfluorooctane sulfonate	2008	Peden-Adams et al.	Toxicol Sci
54	免疫		専門委員／専門参考人選択	Perfluorooctanoic acid alters T lymphocyte phenotypes and cytokine expression in mice	2009	Son et al.	Environ Toxicol
55	免疫		専門委員／専門参考人選択	Exposure to the immunosuppressant, perfluorooctanoic acid, enhances the murine IgE and airway hyperreactivity response to ovalbumin	2007	Fairley et al.	Toxicol Sci

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56	免疫		専門委員／専門参考人選択	Subchronic effects of perfluorooctanesulfonate exposure on inflammation in adult male C57BL/6 mice	2012	Dong et al.	Environ Toxicol
57	免疫			Perfluorooctanoic acid induces mast cell-mediated allergic inflammation by the release of histamine and inflammatory mediators	2012	Singh et al.	Toxicol Lett
58	免疫			Immunotoxic changes associated with a 7-day oral exposure to perfluorooctanesulfonate (PFOS) in adult male C57BL/6 mice	2009	Zheng et al.	Arch Toxicol
59	免疫			Effects of environmentally-relevant levels of perfluorooctane sulfonate on clinical parameters and immunological functions in B 6C 3F 1 mice	2011	Fair et al.	J Immunotoxicol
60	免疫			Effect of perfluorooctane sulfonate (PFOS) on influenza A virus-induced mortality in female B6C3F1 mice	2009	Guruge et al.	J Toxicol Sci
61	免疫			Effects of perfluorooctane sulfonate (PFOS) exposure on markers of inflammation in female B6C3F1 mice	2011	Mollenhauer et al.	J Environ Sci Health A Tox Hazard Subst Environ Eng

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62	神経	EPA 2021 (PFOS)	POD候補	Neurotoxic effects of lactational exposure to perfluorooctane sulfonate on learning and memory in adult male mouse	2020	Mshaty et al.	Food Chem Toxicol
63	神経		専門委員／専門参考人選択	Neurotoxicity of perfluorooctane sulfonate to hippocampal cells in adult mice	2013	Long et al.	PLoS ONE
64	神経			The ubiquitous environmental pollutant perfluorooctanoicacid inhibits feeding behavior via peroxisome proliferator-activated receptor-alpha	2008	Asakawa et al.	Int J Mol Med
65	神経			Behavioral effects in adult mice exposed to perfluorooctane sulfonate (PFOS)	2007	Fuentes et al.	Toxicology
66	神経			Perfluorooctane sulfonate disrupts the blood brain barrier through the crosstalk between endothelial cells and astrocytes in mice	2019	Yu et al.	Environ Pollut
67	神経			Perfluorooctane sulfonate (PFOS) exposure could modify the dopaminergic system in several limbic brain regions	2008	Salgado et al.	Toxicol Lett
68	神経			Ultrasonic-induced tonic convulsion in rats after subchronic exposure to perfluorooctane sulfonate (PFOS)	2011	Kawamoto et al.	J Toxicol Sci
69	神経			Effects of subchronic perfluorooctane sulfonate exposure of rats on calcium-dependent signaling molecules in the brain tissue	2010	Liu et al.	Arch Toxicol
70	内分泌			Effects of perfluorooctane sulfonate on rat thyroid hormone biosynthesis and metabolism	2009	Yu et al.	Environ Toxicol Chem
71	内分泌			Regulation of corticosterone secretion is modified by PFOS exposure at different levels of the hypothalamic-pituitary-adrenal axis in adult male rats	2014	Pereiro et al.	Toxicol Lett
72	内分泌			Initial study on the possible mechanisms involved in the effects of high doses of perfluorooctane sulfonate (PFOS) on prolactin secretion	2015	Salgado et al.	Food Chem Toxicol
73	内分泌			Perfluorooctane sulfonate (PFOS) can alter the hypothalamic-pituitary-adrenal (HPA) axis activity by modifying CRF1 and glucocorticoid receptors	2018	Salgado-Freiría et al.	Toxicol Lett
74	内分泌			Perfluorooctane sulfonate effects on the reproductive axis in adult male rats	2014	López-Doval et al.	Environ Res

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75	内分泌			Estrogen-like activity of perfluoroalkyl acids in vivo and interaction with human and rainbow trout estrogen receptors in vitro	2011	Benninghoff et al.	Toxicol Sci
76	内分泌			Estrogen-like properties of perfluorooctanoic acid as revealed by expressing hepatic estrogen-responsive genes in rare minnows (Gobiocyris rarus)	2007	Wei et al.	Environ Toxicol Chem
77	心血管			The roles of bone morphogenetic protein 2 in perfluorooctanoic acid induced developmental cardiotoxicity and l-carnitine mediated protection	2018	Lv et al.	Toxicol Appl Pharmacol
78	腎臓			Elimination and toxicity of perfluorooctanoic acid during subchronic administration in the Wistar rat	1987	Hanhijärvi et al.	Pharmacol Toxicol
79	腎臓			Oxidative stress and Cx43-mediated apoptosis are involved in PFOS-induced nephrotoxicity	2022	Tang et al.	Toxicology
80	その他			Perfluorooctane sulfonic acid disrupts protective tight junction proteins via protein kinase D in airway epithelial cells	2022	Lucas et al.	Toxicol Sci

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81	発がん性	EPA 2023 (PFOS) Health Canada 2018 (PFOS)	POD	Chronic dietary toxicity and carcinogenicity study with potassium perfluorooctanesulfonate in Sprague Dawley rats	2012	Butenhoff et al.	Toxicology
82	発がん性	EPA 2023 (PFOS)	POD	104-Week Dietary Chronic Toxicity and Carcinogenicity Study with Perfluorooctane Sulfonic Acid Potassium Salt (PFOS; T-6295) in Rats (pp. 1-216).	2002	Thomford	3M
83	発がん性	EPA 2023 (PFOA)	POD候補	NTP technical report on the toxicology and carcinogenesis studies of perfluorooctanoic acid (CASRN 335-67-1) administered in feed to Sprague Dawley (Hsd:Sprague Dawley SD) rats [NTP]	2020	NTP	-
84	発がん性		専門委員／専門参考人選択	Evaluation of the chronic toxicity and carcinogenicity of perfluorohexanoic acid (PFHxA) in Sprague-Dawley rats	2015	Klaunig et al.	Toxicol Pathol
85	発がん性			Induction of Leydig cell adenomas by ammonium perfluorooctanoate: a possible endocrine-related mechanism	1992	Cook et al.	Toxicol Appl Pharmacol
86	発がん性			Exposure to perfluorooctanoic acid leads to promotion of pancreatic cancer	2022	Kamendulis et al.	Carcinogenesis
87	発がん性			Chronic dietary toxicity and carcinogenicity study with ammonium perfluorooctanoate in Sprague-Dawley rats	2012	Butenhoff et al.	Toxicology
88	遺伝毒性			Mutagenic Effects of Perfluorooctanesulfonic Acid in gpt Delta Transgenic System Are Mediated by Hydrogen Peroxide.	2015	Wang et al.	Environ Sci Technol
89	遺伝毒性			Can sustained exposure to PFAS trigger a genotoxic response? A comprehensive genotoxicity assessment in mice after subacute oral administration of PFOA and PFBA	2019	Crebelli et al.	Regul Toxicol Pharmacol
90	遺伝毒性			Evaluation of perfluorooctanoate for potential genotoxicity	2014	Butenhoff et al.	Toxicol Rep
91	遺伝毒性			The protective role of curcumin on perfluorooctane sulfonate-induced genotoxicity: Single cell gel electrophoresis and micronucleus test	2013	Çelik et al.	Food Chem Toxicol
92	遺伝毒性			Curcumin prevents perfluorooctane sulfonate-induced genotoxicity and oxidative DNA damage in rat peripheral blood	2016	Eke et al.	Drug Chem Toxicol

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93	遺伝毒性			In vitro assessment of the cytotoxic and mutagenic potential of perfluorooctanoic acid	2008	Fernández et al.	Toxicol In Vitro
94	遺伝毒性			Peroxisome proliferator activated receptor-mediated genotoxicity of perfluoroalkyl acids using human lymphoblastoid cells	2016	Nakamura et al.	Fundamental Toxicol Sci
95	遺伝毒性			Perfluoroalkylated substances (PFAS) affect oxidative stress biomarkers in vitro	2015	Wielsøe et al.	Chemosphere