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Sea turtles across the North Pacific are exposed to perfluoroalkyl substances

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abstract

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Perfluoroalkyl acids (PFAAs) are highly persistent and widely spread in the environment. PFAAs were
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Perfluorooctanoic acid (PFOA) is an octanoic acid derivative to which all aliphatic hydrocarbons are
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Total body burden and tissue distribution of polyfluorinated compounds (PFCs) were investigated in l
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Tissue distribution of legacy and emerging per-and polyfluoroalkyl substances (PFASs) in several kind
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The emergence of novel per- and polyfluoroalkyl substances (PFASs) has enabled researchers to dete
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Perfluorinated alkyl acids (PFAAs) are important global pollutants with unique pharmacokinetics. Evic
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Toxicokinetics are important for extrapolating health effects and effect levels observed in laboratory
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Methods to predict the bioaccumulation potential of per- and polyfluorinated alkyl substances (PFAS
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Abstract Perfluoroalkyl acids (PFAAs) mostly exist as ionic compounds that are of major concern beca
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Information on placental transfer and adverse outcomes of short-chain per- and polyfluoroalkyl subs
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The role of milk in the transfer of perfluoroalkyl substances (PFASs) to offspring is not well known in
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Perfluoroalkyl substances (PFASs) are environmental pollutants with an important bioaccumulation p
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This study assessed the aquatic toxicity and bioaccumulation potential of 6:2 fluorotelomer sulfonate
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Carp (Cyprinus carpio L.) was exposed to perfluorinated compounds (PFCs)-perfluoroalkyl carboxylic
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Poly- and perfluoroalkyl substances (PFAS) are ubiquitous contaminants that can bioaccumulate in a
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Concentrations of 11 PFASs were determined in muscle and whole fish for six species collected from
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Perfluoroalkyl substances (PFASs) is a growing class of contaminants in the Arctic environment, and i
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Perfluorinated alkyl substances (PFASs) are global, persistent, and toxic contaminants. We assessed PFAS concentrations in green (Chelonia mydas) and hawksbill (Eretmochelys imbricata) turtles from the North Pacific. Fifteen compounds were quantified via liquid chromatography tandem mass spectrometry from 62 green turtle and 6 hawksbill plasma samples from Hawai'i, Palmyra Atoll, and the Northern Marianas Islands. Plasma from 14 green turtles severely afflicted with fibropapillomatosis, and eggs from 12 Hawaiian hawksbill nests from 7 females were analyzed. Perfluorooctane sulfonate (PFOS) predominated in green turtle plasma; perfluorononanoic acid (PFNA) predominated in hawksbill tissues. Concentrations were greater in hawksbill than green turtle plasma ($p < 0.05$), related to trophic differences. Green turtle plasma PFOS concentrations were related to human populations from highest to lowest: Hawai'i, Marianas, Palmyra. Influence on fibropapillomatosis was not evident. PFASs were maternally transferred to hawksbill eggs, with decreasing concentrations with distance from airports and with clutch order from one female. A risk assessment of PFOS showed concern for immunosuppression in Kailua green turtles and alarming concern for hawksbill developmental toxicity. Perfluoroundecanoic (PFUnA) and perfluorotridecanoic (PFTriA) acid levels were correlated with reduced emergence success ($p < 0.05$). Studies to further examine PFAS effects on sea turtle development would be beneficial. © 2021 Elsevier Ltd
Endangered or threatened sea turtle species at remote Pacific islands contain perfluoroalkyl substances in blood and offload them to eggs, at concentrations known to be detrimental in birds. © 2021 Elsevier Ltd

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Releases of Perfluoroalkyl and Polyfluoroalkyl Substances (PFASs) associated with Aqueous Film Form
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Perfluorooctane sulfonate (PFOS) is a persistent and bioaccumulative perfluorinated acid detectable
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Certain poly- and perfluoroalkyl substances (PFASs) exhibit significant bioaccumulation/biomagnificat
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The toxicokinetics of perfluorohexanoic acid (PFHxA) and nonafluoro-1-butanesulfonic acid (PFBS) we
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The transfer of a mixture of perfluoroalkyl acids (PFAAs) from contaminated feed into the edible tissu
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Major fluorinated chemical manufacturers have developed new short-chain per- and polyfluorinated
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Perfluorooctanoic acid (PFOA), a global environmental pollutant detected in both wildlife and human
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The fluoropolymer manufacturing industry is moving to alternative polymerization processing aid tec
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As novel alternatives to legacy poly- and perfluoroalkyl substances (PFAS), perfluoroalkyl ether carbo
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As novel alternatives to legacy poly- and perfluoroalkyl substances (PFAS), perfluoroalkyl ether carbo
The perfluorophosphonates (PFPAs) and perfluorophosphinates (PFPiAs) are high production volume
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remote-database-name	language
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(Oncorhynchus mykiss) were separately exposed to a mixture of C6, C8, and C10 monoalkylated PFPAs
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(Oncorhynchus mykiss) were separately exposed to a mixture of C6, C8, and C10 monoalkylated PFPAs
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6.03.010&partnerID=40&md5=fd14cca6c8ffc38b759c9fecbb8e1988
6.03.010&partnerID=40&md5=fd14cca6c8ffc38b759c9fecbb8e1988
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es, and sulfonamido ethanols. Perfluorooctanesulfonate (PFOS) was the predominant compound in all meas
es, and sulfonamido ethanols. Perfluorooctanesulfonate (PFOS) was the predominant compound in all meas
es, and sulfonamido ethanols. Perfluorooctanesulfonate (PFOS) was the predominant compound in all meas

der-specific elimination rates of perfluoroalkyl carboxylates and perfluoroalkane sulfonates. Similar pharmac
der-specific elimination rates of perfluoroalkyl carboxylates and perfluoroalkane sulfonates. Similar pharmac

ng strength and biological half-life. We show that an easy-to-implement docking program, Autodock Vina, ca
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e model is a modification of a previous model and incorporates new insights regarding the mechanism of bic
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ollowed the order plasma > liver > gills > gonads > muscle. Sediment-water distribution coefficients (logK(d))
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were 0.435, 23.1 d and 0.295, respectively. These data indicate that 6:2 FTSA is not bioaccumulative in aquat
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PFOA) and PFOS differed by more than two orders of magnitude (PFOA BCF = < 5.1 to 9.4; PFOS BCF = 720 to
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ng of the global distribution of PFCs in aquatic organisms. High concentrations of PFCs continue to be detect
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Chukchi Sea, in Alaska between 1989 and 2006. PFOS and PFOSA were the dominant compounds measured
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gher for males than females and serum clearance of PFHxA and PFBS was more rapid in females than males;
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gher for males than females and serum clearance of PFHxA and PFBS was more rapid in females than males;
onger in males (1.5–1.7 h) than in females (0.5–0.7 h). Absorption in the mouse was also rapid with the maxi
onger in males (1.5–1.7 h) than in females (0.5–0.7 h). Absorption in the mouse was also rapid with the maxi
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onger in males (1.5–1.7 h) than in females (0.5–0.7 h). Absorption in the mouse was also rapid with the maxi
liver (under 7%), and kidney (under 2%) for most substances. An exception was perfluorooctanesulfonic acid
liver (under 7%), and kidney (under 2%) for most substances. An exception was perfluorooctanesulfonic acid
liver (under 7%), and kidney (under 2%) for most substances. An exception was perfluorooctanesulfonic acid
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ere analyzed to provide estimates of the apparent half-life of PFHxA from humans, and comparisons were m
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ute and chronic aquatic toxicity tests to evaluate the toxicity of ammonium 2,3,3,3-tetrafluoro-2-(heptafluor
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and a mixture of C6/C6, C6/C8, and C8/C8 dialkylated PFPiAs in the diet for 31 days, followed by 32 days of
and a mixture of C6/C6, C6/C8, and C8/C8 dialkylated PFPiAs in the diet for 31 days, followed by 32 days of
and a mixture of C6/C6, C6/C8, and C8/C8 dialkylated PFPiAs in the diet for 31 days, followed by 32 days of

ured seal tissues (up to 1665 ng g(-1) wet weight in liver tissue). The dominant PFCAs were perfluorononano
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ın successfully redock perfluorooctanesulfonate (PFOS) to human serum albumin with deviations smaller tha
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›accumulation derived from laboratory experiments and field studies as well as improvements in model para
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and bioaccumulation factors (logBAF) were in the range 0.8-4.3 and 0.9-6.7, respectively. Both distribution

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ic organisms. Comparison of PNECs with the reported surface water concentrations (non-spill situations) sug
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1300). The highest BCFs were obtained from perfluorododecanoic acid (BCF = 10,000 to 16,000) and perflu
1300). The highest BCFs were obtained from perfluorododecanoic acid (BCF = 10,000 to 16,000) and perflu
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1300). The highest BCFs were obtained from perfluorododecanoic acid (BCF = 10,000 to 16,000) and perflu

ed in invertebrates, fish, reptiles, and marine mammals worldwide. Perfluorooctane sulfonate (PFOS) is still

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ed in invertebrates, fish, reptiles, and marine mammals worldwide. Perfluorooctane sulfonate (PFOS) is still

in both beluga stock populations, with overall median concentrations of 10.8 ng/g and 22.8 ng/g, respective
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in both beluga stock populations, with overall median concentrations of 10.8 ng/g and 22.8 ng/g, respective
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however, there was no appreciable difference in the extent or rate of urinary elimination between compour
however, there was no appreciable difference in the extent or rate of urinary elimination between compour

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however, there was no appreciable difference in the extent or rate of urinary elimination between compou
mum plasma concentration occurring between 15 and 30 min after dosing. The maximum concentration wa
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mum plasma concentration occurring between 15 and 30 min after dosing. The maximum concentration wa
mum plasma concentration occurring between 15 and 30 min after dosing. The maximum concentration wa
mum plasma concentration occurring between 15 and 30 min after dosing. The maximum concentration wa
(PFOS), with lower affinity for plasma (23%) and higher for liver (35%). A toxicokinetic model is developed t
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(PFOS), with lower affinity for plasma (23%) and higher for liver (35%). A toxicokinetic model is developed t
(PFOS), with lower affinity for plasma (23%) and higher for liver (35%). A toxicokinetic model is developed t
ade with kinetic studies of PFHxA elimination from mice, rats and monkeys. The apparent elimination half-li
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opropoxy)-propanoate (C6HF11O3.H3N) or the acid form of the substance to the cladoceran, Daphnia magn
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depuration. Tissue distribution indicated preferential partitioning to blood and liver. Depuration half-lives ran
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depuration. Tissue distribution indicated preferential partitioning to blood and liver. Depuration half-lives ran

ic acid (PFNA) and perfluorodecanoic acid (PFDA), but their concentrations were much lower compared to P
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sh that explicitly considers protein interactions. In this work, we present the first mechanistic protein-bindin

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ın 2 A. Furthermore, predicted binding strengths largely fall within one standard deviation of measured valu

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ımeterization. The new elements of the model include: A model for the partitioning of chemicals into organis
ımeterization. The new elements of the model include: A model for the partitioning of chemicals into organis

coefficients positively correlated with perfluoroalkyl chain length. Field-based biota-sediment accumulation
coefficients positively correlated with perfluoroalkyl chain length. Field-based biota-sediment accumulation

ggests low risk to aquatic organisms from 6:2 FTSA. Future studies are needed to elucidate the biotic and abi
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ggests low risk to aquatic organisms from 6:2 FTSA. Future studies are needed to elucidate the biotic and abi
orotetradecanoic acid (BCF = 16,000 to 17,000). The longest observed depuration half-lives were for perfluor
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the predominant PFC detected (mean concentrations up to 1900 ng/g ww) in addition to important concentr
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ly. Long-chain perfluorocarboxylates, PFCAs (9 to 14 carbons), were detected in more than 80% of the sampl
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nds or genders. There were no apparent differences between genders in the serum half-life for PFHxA follow
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nds or genders. There were no apparent differences between genders in the serum half-life for PFHxA follow
s not appreciably different between male and female mice (8 µg equiv./g at 2 mg/kg; ~350 µg equiv./g at 10
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o quantify the absorption, distribution, and excretion of PFAAs and to calculate elimination half-lives. Perfluo
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o quantify the absorption, distribution, and excretion of PFAAs and to calculate elimination half-lives. Perfluo
fe of PFHxA in highly exposed humans ranged between 14 and 49d with a geomean of 32d. The half-lives of
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a, the green alga, Pseudokirchneriella subcapitata, and a number of freshwater fish species including the rai
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nged from 3 to 43 days and increased with the number of perfluorinated carbons present in the chemical. Th
nged from 3 to 43 days and increased with the number of perfluorinated carbons present in the chemical. Th
nged from 3 to 43 days and increased with the number of perfluorinated carbons present in the chemical. Th

FOS. The mean whole body burden in harbor seals of all detected PFCs was estimated to be 2665+/-1207 mi
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g bioconcentration model for PFAAs in fish. Our model considers PFAA uptake via passive diffusion at the gill
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es for perfluorinated alkyl acids (PFAAs). Correlations with half-lives suggest both membrane partitioning and
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sms; kinetic models for predicting chemical concentrations in algae, phytoplankton, and zooplankton; new al
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factors (BSAFs) are also reported, for the first time for PFCs other than perfluorooctane sulfonate. logBSAF r

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otic fate of commercial AFFF surfactants in the environment.
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otic fate of commercial AFFF surfactants in the environment.
rohexadecanoic acid (48 to 54 days) and PFOS (45 to 52 days). The concentrations of PFCs were highest in th
rohexadecanoic acid (48 to 54 days) and PFOS (45 to 52 days). The concentrations of PFCs were highest in th
rohexadecanoic acid (48 to 54 days) and PFOS (45 to 52 days). The concentrations of PFCs were highest in th
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rohexadecanoic acid (48 to 54 days) and PFOS (45 to 52 days). The concentrations of PFCs were highest in th

rations of long-chain perfluoroalkyl carboxylates (PFCAs; sum PFCAs up to 400 ng/g ww). More studies have
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rations of long-chain perfluoroalkyl carboxylates (PFCAs; sum PFCAs up to 400 ng/g ww). More studies have

les. Perfluoroundecanoic acid (PFUnA) and perfluorotridecanoic acid (PFTriA) made up a large percentage of
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ving 26 days of repeated oral dosing in rats; exposure decreased upon repeated dosing.
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ving 26 days of repeated oral dosing in rats; exposure decreased upon repeated dosing.
ving 26 days of repeated oral dosing in rats; exposure decreased upon repeated dosing.
ving 26 days of repeated oral dosing in rats; exposure decreased upon repeated dosing.
ving 26 days of repeated oral dosing in rats; exposure decreased upon repeated dosing.
00 mg/kg). The primary route of elimination was via the urine. PFHx was not metabolized in rat or mouse hep
00 mg/kg). The primary route of elimination was via the urine. PFHx was not metabolized in rat or mouse hep
00 mg/kg). The primary route of elimination was via the urine. PFHx was not metabolized in rat or mouse hep
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00 mg/kg). The primary route of elimination was via the urine. PFHx was not metabolized in rat or mouse hep
orohexanoic acid (PFHxA), a PFCA, had the shortest half-life at 4.1 days. PFSAs are eliminated more slowly (e.
orohexanoic acid (PFHxA), a PFCA, had the shortest half-life at 4.1 days. PFSAs are eliminated more slowly (e.
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PFHxA in mice, rats, monkeys and humans were proportional to body weight with no differences observed b
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he assimilation efficiencies (alpha, 7-34%) and biomagnification factors (BMFs, 0.007-0.189) calculated here f
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crog absolute. The major amount of the total PFCs burden in the bodies was in blood (38%) and liver (36%),
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s, association with serum albumin in the circulatory and extracellular spaces, association with FABP in the liv
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d protein interactions are important, and that serum albumin is only one of a number of proteins controlling
d protein interactions are important, and that serum albumin is only one of a number of proteins controlling

llometric relationships for predicting gill ventilation rates in a wide range of aquatic species; and a mechanist
llometric relationships for predicting gill ventilation rates in a wide range of aquatic species; and a mechanist

anged between -1.3 and 1.5 and was negatively correlated with the perfluoroalkyl chain length in the case o
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e viscera, followed by the head, integument, and remaining parts of the test fish. PFCs concentrations in the
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evaluated the bioaccumulation and biomagnification of these compounds in both freshwater and marine foo
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the PFCAs measured with median concentrations of 8.49 ng/g and 4.38 ng/g, respectively. To compare diffe
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patocytes, nor were any metabolites observed after oral dosing in either rodent species. Essentially 100% of
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patocytes, nor were any metabolites observed after oral dosing in either rodent species. Essentially 100% of
g., half-life of 634 days for PFOS). PFAAs in pigs exhibit longer elimination half-lives than in most organisms r
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or PFPAs and PFPiAs were lower than those previously observed for the perfluorocarboxylates (PFCAs) and
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followed by muscle (13%), lung (8%), kidney (2%), blubber (2%), heart (1%), brain (1%), thymus (<0.01%) anc
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the fate of these chemicals in organisms. However, few data are available for validation of our approach as
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od webs. Several reports have indicated a decrease in PFOS levels over time in contrast to PFCA concentratio
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od webs. Several reports have indicated a decrease in PFOS levels over time in contrast to PFCA concentratio
od webs. Several reports have indicated a decrease in PFOS levels over time in contrast to PFCA concentratio

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the dose was eliminated in urine within 24 h demonstrating that PFHx is readily absorbed and bioavailability
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reported in the literature, but still shorter than in humans.
reported in the literature, but still shorter than in humans.
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malian species. Compared to long-chain perfluoroalkyl acid analogs, PFHxA is rapidly cleared from biota. The
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perfluorosulfonates (PFSAs) in the same test organism. Bioaccumulation was observed to decreased in the or
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perfluorosulfonates (PFSAs) in the same test organism. Bioaccumulation was observed to decreased in the or

d thyroid (<0.01%). These data suggest large differences in body burden and accumulation pattern of PFCs in
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red bioconcentration and tissue distribution data collected in two previous studies of rainbow trout (Oncorhy
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a broad screening tool, and available data are highly variable. We therefore call for collection of new data, p
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lipophilic substance (hexachlorobenzene). It is likely that Clog P would be a better parameter than log K (ow
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ons that have tended to increase in tissues of aquatic organisms at many locations. The detection of precurso

d total PFC concentrations were used. Spatially, the Cook Inlet belugas had higher concentrations of most PF
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approaches 100%, even at a dose as high as 100 mg/kg. The route and extent of elimination was unchangec
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consistent weight-normalized elimination half-lives for PFHxA in mammalian species indicates that results c
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ate the substance is of low concern for aquatic hazard and bioconcentration in aquatic organisms. Evaluatior
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rder of PFSAs > PFCAs > PFPAs of equal perfluorocarbon chain length and was dependent on the charge of th
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marine mammals.
marine mammals.
marine mammals.

ynchus mykiss) and common carp (Cyprinus carpio). Comparing our model with previous attempts to describ
ynchus mykiss) and common carp (Cyprinus carpio). Comparing our model with previous attempts to describ

articularly including proteins other than serum albumin and substances beyond perfluorooctanoic acid (PFO
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vations for 35 species and 64 chemicals. The effects of each modification on the model's performance are ill
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v) for the prediction of BCFs for PFCs. Threshold values for PFCs bioaccumulation potential (molecular weigh

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CAs and PFOS ($p < 0.05$); however, these belugas had a lower median concentration of PFOSA when compar
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d after 14 days of daily dosing. Tissues were collected at three time points (rat: 0.5, 2, and 24 h; mice: 0.25, 1
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obtained from animal models are suitable for establishment of PFHxA benchmark dose and reference dose h
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e polar headgroup. Bioaccumulation of the PFPiAs was observed to be low due to their rapid elimination via
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ıe PFAA bioconcentration using a nonspecific (partitioning-type) approach shows that inclusion of protein int
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A) and PFOS. The methods we discuss in this work can serve as a framework for guiding such data collection
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ustrated. The new model is able to provide better estimates of bioaccumulation factors in comparison to the
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t = 700, maximum diameter = 2 nm) seemed to deviate from those generally reported because of the specifi
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portant information on the sources and distribution of these contaminants. The integration of environmenta
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ed to belugas from the eastern Chukchi Sea ($p < 0.05$). Temporal trends indicated most PFCAs, PFHxS, PFOS,
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, and 24 h) after dosing to investigate the tissue clearance kinetics of PFHx following a single dose at 2 or 10(
, and 24 h) after dosing to investigate the tissue clearance kinetics of PFHx following a single dose at 2 or 10(
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azard endpoints for use in human risk assessments.
azard endpoints for use in human risk assessments.
azard endpoints for use in human risk assessments.

on the available data suggest low risk to aquatic organisms.
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on the available data suggest low risk to aquatic organisms.

metabolism to the corresponding PFPAs. Here, we report the first observation of an in vivo cleavage of the
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metabolism to the corresponding PFPAs. Here, we report the first observation of an in vivo cleavage of the

eractions is key to accurately predicting tissue-specific PFAA distribution and bioconcentration.
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e previous food web bioaccumulation model while the model input requirements remain largely unchanged.
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and PFOSA concentrations increased from 1989 to 2006 ($p < 0.05$). Males had significantly higher concentra
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0 mg/kg. In all tissues except skin, PFHx was not quantifiable 24 h after dosing in both sexes of the two speci
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carbon-phosphorus bond in fish, as well as, the first in vivo biotransformation of a perfluoroalkyl acid (PFAA)
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d biological variables (e.g., age, gender, life cycle, migration, diet composition, growth rate, food chain lengtl
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d biological variables (e.g., age, gender, life cycle, migration, diet composition, growth rate, food chain lengtl
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tions of PFTriA, SigmaPFCA, and PFOS ($p < 0.05$). Perfluorononanic acid (PFNA) and PFOS showed a significar
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tions of PFTriA, SigmaPFCA, and PFOS ($p < 0.05$). Perfluorononanic acid (PFNA) and PFOS showed a significar

). As was previously observed for PFCAs and PFSAs, none of the BMFs determined here for the PFPAs and PF
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nt decrease in concentration with increasing animal length ($p < 0.05$). These observations suggest the accumu
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nt decrease in concentration with increasing animal length ($p < 0.05$). These observations suggest the accumu
nt decrease in concentration with increasing animal length ($p < 0.05$). These observations suggest the accumu

PiAs were greater than one, which suggests PFAAs do not biomagnify from dietary exposure in juvenile raink
PiAs were greater than one, which suggests PFAAs do not biomagnify from dietary exposure in juvenile raink
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and distribution of PFCs and should be more frequently considered in study design.
and distribution of PFCs and should be more frequently considered in study design.
and distribution of PFCs and should be more frequently considered in study design.
and distribution of PFCs and should be more frequently considered in study design.

ulation of PFCs in belugas is influenced by year, location, sex, and length.
ulation of PFCs in belugas is influenced by year, location, sex, and length.
ulation of PFCs in belugas is influenced by year, location, sex, and length.
ulation of PFCs in belugas is influenced by year, location, sex, and length.
ulation of PFCs in belugas is influenced by year, location, sex, and length.
ulation of PFCs in belugas is influenced by year, location, sex, and length.

bow trout.
bow trout.
bow trout.