

Supplementary Table 1. The reviewed studies that examined the concentrations of three heavy metals (Hg, Pb, Cd) in fish and shellfish

Author	Year of publication	Type of heavy metals reported	Species of fish or shellfish examined
Kang et al.	2017	Hg	Bigeye tuna, Bluefin tuna, Inshore hagfish, Marbled rockfish, Patagonian toothfish, Shark, Skipjack tuna, Swordfish, Yellowfin tuna
Choi et al.	2016	Hg	Common eel, Far Eastern catfish, Israeli carp, Korean bullhead, Korean rock fish, Nile mouth breeder, Olive flounder, Rainbow trout, Red seabream, River salmon, Snakehead, Starry flounder
Kim et al.	2016	Hg	Banded hound shark, Blacktip reef shark, Blue shark, Cloudy dogfish, Crocodile shark, Hammerhead shark, Milk shark, Oceanic whitetip shark, Pelagic thresher shark, Shortfin mako shark, Shortnose spurdog, Spiny dogfish, Starspotted smooth-hound
Kim et al.	2016	Pb, Cd	Alaska pollock, Anchovy, Blackmouth angler, Brown croaker, Chub mackerel, Conger eel, Filefish, Flounder, Hair-tail, Herring, Korean rockfish, Olive flounder, Pacific cod, Pacific saury, Red stingray, Skipjack tuna, Spanish mackerel, Yellow croaker
Jo et al.	2015	Hg	Alaska pollack, Anchovy, Blackmouth angler, Brown croaker, Brown sole, Chub mackerel, Conger eel, Filefish, Hair-tail, Herring, Korean Rock fish, Olive flounder, Pacific cod, Pacific saury, Red stingray, Small yellow croaker, Spanish mackerel
Mok et al.	2015	Hg, Pb, Cd	Oyster
Yang et al.	2015	Hg	Chub mackerel, Hammerhead shark, Neptune whelk, Pacific saury, Sardine, Tuna
Mok et al.	2014	Hg, Pb, Cd	Abalone, Bay scallop, Bloody clam, Blue crab, Blue mussels, Comb pen shell, Common octopus, Japanese flying squid, Long arm octopus, Manila clam, Mussel, Oyster, Red snow crab, Snow crab, Turban shell, Veined rapa whelk, Webfoot

			octopus
Kim et al.	2013	Hg	Billfish, Patagonian toothfish, Shark, Tuna
Jeon et al.	2013	Pb, Cd	Mediterranean mussel
Choi et al.	2012	Hg	A rock trout, Abalone, Alaska pollack, Anchovy, Beka squid, Blackmouth angler, Bloody clam, Chub mackerel, Common eel, Common octopus, Crab, Croaker, Eboya, Far Eastern catfish, Flathead grey mullet, Flounder, Gae-bul, Gizzard shad, Granulated ark shell, Hair-tail, Harvest fish, Herring, Horse mackerel, Jellyfish, Korean Rock fish, Lobster, Long arm octopus, Manila clam, Mussel, Neptune whelk, Olive flounder, Orient hard clam, Oyster, Pacific cod, Pacific saury, Red seabream, Sailfin sanfish, Salmon, Sea bass, Sea mustard, Sea squirt, Sea urchin, Seacucumbers, Shark, Shrimp, Small yellow croaker, Snail, Spanish mackerel, Spottybelly greenling, Squid, Swordfish, Tuna, Webfoot octopus
Kim et al.	2012	Hg	Alaska pollack, Asiatic ricefish, Baegasari, Barbel chub, Black bullhead, Black porgy, Blackmouth angler, Blue gill, Brown croaker, Butterfish, Carp, Chinese muddy loach, Chub mackerel, Common eel, Conger eel, Crucian carp, Dark chub, Dark slepper, Deep body bitterling, Downstream fatminnow, Estuarine tapertail, Far Eastern catfish, Flat bitterling, Flathead grey mullet, Floating goby, Gizzard shad, Goby minnow, Gold fish, Hair-tail, Korean aucha perch, Korean bullhead, Korean dwarf gudgeon, Korean gudgeon, Korean oily shiner, Korean piscivorous chub, Korean rockfish, Korean sharpbelly, Korean shinner, Korean striped bitterling, Korean torrent catfish, Large striped bitterling, Largemouth bass, Long-nosed barbel, Manchurian trout, Mandarin fish, Mud hopper, Oily shinner, Olive flounder, Pacific cod, Pale chub, Pond smelt, Red horsehead, Red seabream, River salmon, Rough skin sculpin, Sea perch, Sea rundace, Sharpbelly, Short barbel gudgeon, Shotted halibut, Skygager, Slender bitterling, Slender catfish, Snakehead, South torrent catfish, Spanish mackerel, Spine loach, Steed barbel, Strip mullet, Striped beakperch, Striped shinner, Sweet smelt, Yellow croaker
Park et al.	2011	Hg	Armorclad rockfish, Bigeye tuna, Blackmouth angler, Bluefin tuna, Chub mackerel, Oil fish, Pacific blue marlin, Pacific cod,

			Pacific sailfish, Pacific saury, Salmon, Spanish mackerel, Starspotted smooth-hound, Swordfish
Moon et al.	2011	Hg	Alaska pollack, Anchovy, Blackmouth angler, Bloody clam, Blue crab, Bluefin tuna, Chub mackerel, Common eel, Common octopus, Far Eastern catfish, Filefish, Flounder, Hair-tail, Herring, Korean rockfish, Manila clam, Mussel, Olive flounder, Oyster, Pacific cod, Pacific saury, Ray, Shrimp, Small yellow croaker, Spanish mackerel, Squid
Joo et al.	2010	Hg	Alaska pollack, Blue crab, Chub mackerel, Far Eastern catfish, Hair-tail, Japanese flying squid, Long arm octopus, Manila clam, Mussel, Oyster, Small yellow croaker, Snake Head
Byeon et al.	2010	Hg	Blue gill, Carp, Culter brevicauda, Dark chub, Downstream fatminnow, Eastern spine loach, Goby minnow, Korean aucha perch, Korean chub, Korean piscivorous chub, Korean shinner, Korean torrent catfish, Largemouth bass, Long-nosed barbel, Pale chub, Sharpbelly, Siberian stone loach, Striped shinner
Oh et al.	2010	Hg	Dark-banded rockfish, Flathead grey mullet, Gizzard shad, Goby, Sea bass, Spottybelly greenling
Mok et al.	2010	Pb, Cd	Abalone, Armorclad rockfish, Beka squid, Bladder moon snail, Bloody clam, Blue crab, Blue mussels, Butter clam, Chinese blood clam, Comb pen shell, Common octopus, Common orient clam, Coonstriped shrimp, Crayfish, Cuttle fish, Divaricate short razor, Eboya, Ezoneptune shell, False trumpet shell, Farreri, Farrer's scallop, Finely-striate buccinum, Fleshy shrimp, Gae-bul, Gomphina melanaegis, Gould's razor shell, Granulated ark shell, Helmet hairy trail, Hen clam, Japanese flying squid, Japanese dosinia, Japanese swimming crab, Korean common sea hare, Lamellated oyster, Long arm octopus, Manila clam, Mussel, Oriental shrimp, Oyster, Paphia euglypta, Razor clam, Sakhalin surf clam, Sea squirt, Seacucumbers, Snow crab, Solen grandis, Southern rough shrimp, Surf clam, Turban shell, Veined rapa whelk, Webfoot octopus, Yesso scallop
Mok et al.	2009	Pb, Cd	A rock trout, Anchovy, Atka mackerel, Banded houndshark, Bartail flathead, Black scraper, Black porgy, Blackmouth angler, Brown croaker, Brown sole, Butterfish, Chub mackerel, Cloudy catshark, Coho salmon, Conger eel, Dark-banded rockfish, Filefish, Finespotted flounder, Flathead grey mullet, Fringed blenny, Gizzard shad, Gnomefish, Goldeye rockfish, Hair-tail,

			Halfbeaks, Herring, Horse mackerel, Inshore hagfish, Japanese amberjack, Korean rockfish, Lumpfish, Marbled rockfish, Northern sand lance, Pacific cod, Pacific saury, Panther puffer, Pike eel, Purple puffer, Red sea bream, Red stingray, Red tongue sole, Sea raven, Searobin gurnard, Skate ray, Small yellow croaker, Spottyback puffer, Spottybelly greenling, Striped puffer, Tanaka's snailfish, Tiger puffer, Vermiculated puffer, White-edged rockfish, Willowy flounder
Oh et al.	2008	Hg	Bigeye tuna, Blackmouth angler, Brown sole, Chub mackerel, Dark-banded rockfish, Hair-tail, Japanese flying squid, Long arm octopus, Olive flounder, Pacific cod, Pacific saury, Red seabream, Small yellow croaker, Spanish mackerel, Swordfish
Kim et al.	2007	Hg, Pb, Cd	A rock trout, Alaska pollack, Armorclad rockfish, Atka mackerel, Atlantic cutlassfish, Bartail flathead, Blackmouth angler, Brown croaker, Butterfish, Carp, Chinese muddy loach, Chub mackerel, Common eel, Conger eel, Crucian carp, Dog shark, Far Eastern catfish, Filefish, Flatfish, Flathead, Flathead grey mullet, Flounder, Flying fish, Gizzard shad, Hair-tail, Herring, Horse mackerel, Korean bullhead, Korean rockfish, Leathercarp, Long arm octopus, Mud hopper, Pacific cod, Pacific saury, Purple puffer, Rainbow runner, Red bulleye, Red seabream, Red tongue sole, River salmon, Sailfin sanfish, Sand smelt, Sardine, Sea bass, Sea rundace, Shuttles hopfish, Small yellow croaker, Snake head, Spanish mackerel, Spotted velvetfish, Sweet smelt, Tongue-fish, White spotted char, Yellow croaker
Jun et al.	2007	Hg, Pb, Cd	Brown sole, Japanese flying squid, Smooth lumpfish, Smooth lumpsucker, Tanaka's snailfish
Hwang	2006	Hg, Pb, Cd	Alaska pollack, Armorclad rockfish, Atka mackerel, Brown croaker, Chub mackerel, Crucian carp, Gizzard shad, Gold fish, Herring, Horse mackerel, Japanese amberjack, Pacific cod, Red sea bream, Red seabream, Slender shad, Small yellow croaker, Spanish mackerel, Yellow croaker, Yellow porgy
Kim et al.	2005	Hg	Albacore, Bigeye tuna, Blacktip shark, Bluefin tuna, Pacific blue marlin, Pacific sailfish, Red horsehead, Salmon, Scalloped hammerhead shark, Shortfin mako shark, Skipjack tuna, Striped marlin, Swordfish, Yellowfin tuna

Ha	2004	Hg, Pb, Cd	Armorclad rockfish, Butter clam, Dark-banded rockfish, Finespotted flounder, Flathead grey mullet, Japanese amberjack, Manila clam, Mussel, Oyster, Red seabream, Rock fish, Sea bass, Spottybelly greenling
Jeong et al.	2003	Hg, Pb, Cd	Armorclad rockfish, Flatfish, Manila clam, Olive flounder, Spottybelly greenling, Turban shell
Kim et al.	2003	Hg, Pb, Cd	Alaska pollack, Anchovy, Atka mackerel, Chub mackerel, Flounder, Hair-tail, Pacific cod, Pacific saury, Small yellow croaker
Kim et al.	2003	Hg, Pb, Cd	Bloody clam, Blue mussels, Manila clam, Oyster
Ham	2002	Hg, Pb, Cd	Alaska pollack, Armorclad rockfish, Arrow squid, Three-spined shore crab, Atka mackerel, Bartail flathead, Beka squid, Black porgy, Blackmouth angler, Bloody clam, Blue crab, Brown croaker, Butter clam, Butterfish, Chinese muddy loach, Chub mackerel, Comb pen shell, Common eel, Common octopus, Common orient clam, Crayfish, Crucian carp, Cuttle fish, Eboya, Finespotted flounder, Flatfish, Flathead, Flathead grey mullet, Fleshy shrimp, Flexed shrimp, Flounder, Forskal, Gae-bul, Gizzard shad, Gould's razor shell, Granulated ark shell, Hair-tail, Halfbeaks, Herring, Hiodoshiebi, Horn fish, Japanese paste shrimp, Long arm octopus, Manila clam, Marsh clam, Mussel, Oriental river prawn, Oyster, Pacific cod, Pacific saury, Pink butterfly shell, Pond loach, Red horsehead, Red sea bream, Red seabream, Red tongue sole, Sakhalin surf clam, Sea bass, Sea squirt, Seacucumbers, Shiba shrimp, Shore crab, Shortnecked clam, Skate ray, Small yellow croaker, Snail, Spanish mackerel, Squid, Surf clam, Turban shell, Webfoot octopus, Whelk, Yellow croaker
Sho et al.	2000	Hg, Pb, Cd	Abalone, Alaska pollock, Anchovy, Armorclad rockfish, Bloody clam, Brown croaker, Butterfish, Chub mackerel, Common orient clam, Filefish, Flathead grey mullet, Flounder, Gizzard shad, Goby, Granulated ark shell, Hair-tail, Horse mackerel, Korean sandlance, Manila clam, Mussel, Neptune whelk, Olive flounder, Oyster, Pacific saury, Pike eel, Red seabream, Sailfin sanfish, Sardine, Spanish mackerel, Tuna, Whelk, Yellow croaker
Kim et al.	1999	Hg, Pb, Cd	Black bullhead, Bloody clam, Butter clam, Carp, Chinese muddy loach, Comb pen shell, Common eel, Common orient clam,

Hong et al.	1999	Pb, Cd	Dark slepper, Crucian carp, Downstream fatminnow, Far Eastern catfish, Goby minnow, Gould's razor shell, Hen clam, Manila clam, Mussel, Oyster, Shortnecked clam, Snake head, Steed barbel, Surf clam, Turban shell, Venus clam, Whelk Manila clam, Manila clam, Turban shell, Turban shell
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