



De Giovanni, Andrea; Abondio, Paolo; Frapiccini, Emanuela; Luiselli, Donata; Marini, Mauro (2022): Polycyclic aromatic hydrocarbons in seafood caught in Western and Central Mediterranean from 1981 to 2019 [dataset]. PANGAEA, <https://doi.org/10.1594/PANGAEA.943169>

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Abstract:

The present database contains the harmonised results of investigations on polycyclic aromatic hydrocarbons (PAHs) in seafood caught from FAO fishing divisions 37.1.3 (Sardinia), 37.2.1 (Adriatic) and 37.2.2 (Ionian), in Western and Central Mediterranean Sea. Of the 10,704 records included in the database, 5790 were extracted from a database on contaminants in Mediterranean biota available at <https://www.emodnet-chemistry.eu/data> (accessed on 01/12/2021), while the other 4,914 come from 38 scientific publications from peer-reviewed journals. The database was compiled along the lines of the work of Cinnirella and colleagues (<https://doi.org/10.1594/PANGAEA.899723>) on mercury concentration in Mediterranean biota. The following parameters have been retrieved when available: Country; Location; FAO fishing division; Sea where sampling took place; Latitude; Longitude; Taxonomic class; Taxonomic order; Taxonomic Family; Species scientific name; Species common name; Marine habitat; Trophic level; Sampling depth; Sample length; Sample weight; Age; Sex; Sampled tissue; PAH analysed; Molecular weight of analysed PAHs; Origin of analysed PAHs; Tissue water content; Mean PAH concentration; Minimum PAH concentration; Maximum PAH concentration; Sample size; Sampling period; Sampling date; Sampling season; State of the organism; Reference source; Sampling year. Moreover, two health risk indexes were calculated for each record, based on FAOSTAT data on seafood consumption in Italy (FAOSTAT, 2017), and included in the database.

Related to:

De Giovanni, Andrea; Abondio, Paolo; Frapiccini, Emanuela; Luiselli, Donata; Marini, Mauro (2022): Meta-Analysis of a New Georeferenced Database on Polycyclic Aromatic Hydrocarbons in Western and Central Mediterranean Seafood. *Applied Sciences*, **12(6)**, 2776, <https://doi.org/10.3390/app12062776>

Source:

Food and Agriculture Organization of the United Nations, FAOSTAT (2017). <https://www.fao.org/faostat/en/#data/FBS> (*Food Balances (2010-); accessed on 1 December 2021*)

Amoroso, S; Arnese, Antonio; Cirillo, T; Montuori, P; Triassi, M; Amodio-Cocchieri, R (2003): Pollution by Mercury, Arsenic, Lead, Chromium, Cadmium, and Polycyclic Aromatic Hydrocarbons of Fish and Mussels from the Gulf of Naples, Italy. *Bulletin of Environmental Contamination and Toxicology*, **71(3)**, 551-560, <https://doi.org/10.1007/s00128-003-8829-6>

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


Bajt, Oliver; Ramšak, Andreja; Milun, Vesna; Andral, Bruno; Romanelli, Giulia; Scarpato, Alfonso; Mitrić, Milena; Kupusović, Tarik; Kljajić, Zoran; Angelidis, Michael; Ćullaj, Algi; Galgani, Francois (2019): Assessing chemical contamination in the coastal waters of the Adriatic Sea using active mussel biomonitoring with *Mytilus galloprovincialis*. *Marine Pollution Bulletin*, **141**, 283-298, <https://doi.org/10.1016/j.marpolbul.2019.02.007>















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Other version:

Polycyclic aromatic hydrocarbons in seafood caught in Western and Central Mediterranean from 1981 to 2019; database (xlsx format) 

Polycyclic aromatic hydrocarbons in seafood caught in Western and Central Mediterranean from 1981 to 2019; legend 

Polycyclic aromatic hydrocarbons in seafood caught in Western and Central Mediterranean from 1981 to 2019; references (pdf format) 

Project(s):

Innovative Technologies and Sustainable Use of Mediterranean Sea Fishery and Biological Resources (FishMed-PhD) 



Coverage:

Median Latitude: 42.674023 * Median Longitude: 12.724858 * South-bound Latitude: 35.488346 * West-bound Longitude: 7.786830 * North-bound Latitude: 45.770000 * East-bound Longitude: 21.450000

























































Date/Time Start: 1981-05-19T00:00:00 * Date/Time End: 2019-07-01T00:00:00

Minimum DEPTH, water: 0.00 m * Maximum DEPTH, water: 118.80 m

Event(s):

PAH_Database_Mediterranean_Sea  * Latitude Start: 45.770000 * Longitude Start: 7.786830 * Latitude End: 35.488346 * Longitude End: 21.450000 * Location: Mediterranean Sea  * Comment: Boundaries of sampling area in Western and Central Mediterranean Sea from 1981 to 2019

Parameter(s):

#	Name	Short Name	Unit	Principal Investigator	Method/Device	Comment
1	Identification 	ID		De Giovanni, Andrea 		
2	Country 	Country		De Giovanni, Andrea 		
3	Location 	Location		De Giovanni, Andrea 		
4	Food and Agriculture Organisation Major Fishing area, division 	FAO MFA division	code	De Giovanni, Andrea 		
5	Ocean and sea region 	OS region		De Giovanni, Andrea 		
6	LATITUDE 	Latitude		De Giovanni, Andrea 		Geocode
7	LONGITUDE 	Longitude		De Giovanni, Andrea 		Geocode
8	Precision 	Precis		De Giovanni, Andrea 		Geographic precision, see legend
9	Class 	Class		De Giovanni, Andrea 		
10	Order 	Order		De Giovanni, Andrea 		
11	Family 	Family		De Giovanni, Andrea 		
12	Species 	Species		De Giovanni, Andrea 		
13	Species, common name 	Species common		De Giovanni, Andrea 		
14	Species code 	Spec code		De Giovanni, Andrea 		
15	Marine habitat 	Marine habitat		De Giovanni, Andrea 		
16	Trophic level 	Trophic level		De Giovanni, Andrea 		
17	Trophic level description 	Trophic level desc		De Giovanni, Andrea 		Source, see legend
18	DEPTH, water 	Depth water	m	De Giovanni, Andrea 		Geocode
19	Length 	l	cm	De Giovanni, Andrea 		
20	Mass 	Mass	g	De Giovanni, Andrea 		
21	Age 	Age	a	De Giovanni, Andrea 		
22	Sex 	Sex		De Giovanni, Andrea 		
23	Tissue Descriptor 	Tissue Descriptor		De Giovanni, Andrea 		see legend
24	Polycyclic aromatic hydrocarbon species 	PAH species		De Giovanni, Andrea 		see legend
25	Molecular weight category 	Mol weight cat		De Giovanni, Andrea 		see legend
26	Origin 	Origin		De Giovanni, Andrea 		PAH origin, see legend
27	Water content description 	Water cont descr		De Giovanni, Andrea 		see legend
28	Polycyclic aromatic hydrocarbon, limit of quantification 	PAH LOQ	µg/g	De Giovanni, Andrea 		see legend

29	Polycyclic aromatic hydrocarbon, limit of detection	PAH LOD	µg/g	De Giovanni, Andrea		see legend
30	Polycyclic aromatic hydrocarbons	PAH	µg/g	De Giovanni, Andrea		Mean PAH concentration; #0=LOD, #9=LOQ
31	Polycyclic aromatic hydrocarbon, per unit wet mass	PAH wet mass	µg/g	De Giovanni, Andrea		Mean PAH concentration converted to wet weight; #0=LOD, #9=LOQ
32	Polycyclic aromatic hydrocarbons	PAH	µg/g	De Giovanni, Andrea		Minimum PAH concentration; #0=LOD, #9=LOQ
33	Polycyclic aromatic hydrocarbons	PAH	µg/g	De Giovanni, Andrea		Maximum PAH concentration; #0=LOD, #9=LOQ
34	Sample amount	N	#	De Giovanni, Andrea		
35	Period	Period		De Giovanni, Andrea		
36	DATE/TIME	Date/Time		De Giovanni, Andrea		Geocode
37	Season	Season		De Giovanni, Andrea		
38	Type	Type		De Giovanni, Andrea		wild, farmed, transplanted
39	Reference/source	Reference		De Giovanni, Andrea		
40	Year of publication	Year pub		De Giovanni, Andrea		
41	Index	Index		De Giovanni, Andrea		Progressive number of the reference
42	Target hazard quotient	THQ		De Giovanni, Andrea		mean, calculated from column 30
43	Target hazard quotient	THQ		De Giovanni, Andrea		mean, calculated from column 31
44	Target hazard quotient	THQ		De Giovanni, Andrea		min, calculated from column 32
45	Target hazard quotient	THQ		De Giovanni, Andrea		max, calculated from column 33
46	Excess lifetime cancer risk	ELCR		De Giovanni, Andrea		
47	Ingestion rate, food	IR food	kg/day	De Giovanni, Andrea		FAOSTAT, 2018
48	Reference dose	RfD	mg/kg/day	De Giovanni, Andrea	Integrated Risk Information System, U.S. Environmental Protection Agency (IRIS EPA)	Oral reference dose for PAH
49	Cancer slope factor	CSF	mg/kg/day	De Giovanni, Andrea		Cancer slope factor for PAH
50	Comment	Comment		De Giovanni, Andrea		

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Status:

Curation Level: Enhanced curation (CurationLevelC) * Processing Level: PANGAEA data processing level 4 (ProcLevel4)

Size:

328998 data points

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Boggarapu Praphulla, C; Patnana, DP; Chaudhary, P et al. (2024): Annual concentrations of polycyclic aromatic hydrocarbons (PAHs) in the North West Indo-Gangetic Plain (NWIGP). <https://doi.org/10.1594/PANGAEA.971317>

Kawana, K; Matsumoto, K; Taketani, F et al. (2021): Chemical composition over the central Pacific Ocean in March 2019. <https://doi.org/10.1594/PANGAEA.936675>

Vasil'chuk, YK; Belik, AD; Budantseva, NA et al. (2021): Polycyclic aromatic Hydrocarbons (PAH) content in the peat of a palsa near Eletsy settlement (Bol'shezemel'skaya Tundra). <https://doi.org/10.1594/PANGAEA.937482>

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