

<b>Supplementary Material S3: List and characteristics of the main</b>	1
<b>harmonized variables.</b>	2

**Table S2.** List and characteristics of the main harmonized variables collected for the BPA Study (this study).

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Variable <sup>a</sup>	N	Percentage of missing data per data collection															Total number of missing data (%)
		3xG (Belgium)	DEMOCOPHES (Belgium)	DEMOCOPHES (Denmark)	DEMOCOPHES (Spain)	DEMOCOPHES (Luxembourg)	DEMOCOPHES (Sweden)	DEMOCOPHES (Slovenia)	ELFE (France)	ESB (Germany)	FLEHSIII (Belgium)	HELIX-BIB (UK)	HELIX-RHEA (Greece)	IBS (Israel) (n = 117)	OCC (Denmark) (n = 842)	PBAT (Austria) (n = 162)	
		(n = 150)	(n = 129)	(n = 145)	(n = 115)	(n = 60)	(n = 98)	(n = 107)	(n = 1741)	(n = 60)	(n = 101)	(n = 205)	(n = 194)				
I. Identifiant subject																	
id_subject	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)
id_participant	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)
id_group	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)
II. Filtering variable																	
matrix	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)
samplingyear	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)
sex	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)
ageyears	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)
III. BPA data																	
U_bpa	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)
U_bpa_lod	3516	100	0	0	0	0	0	0	0	100	100	100	100	0	0	0	710 (16.8)
U_bpa_loq	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)
U_fbpa	1731	100	100	100	100	100	100	100	0.57	100	100	100	100	100	100	100	2495 (59.0)
U_fbpa_lod	1741	100	100	100	100	100	100	100	0	100	100	100	100	100	100	100	2485 (58.8)
U_fbpa_loq	1741	100	100	100	100	100	100	100	0	100	100	100	100	100	100	100	2485 (58.8)
U_cbpa	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
U_cbpa_lod	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
U_cbpa_loq	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
IV. Sample																	
id_sample	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)
lab	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)
method	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)
tube	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)
samplingnumber	3948	0	0	0	0	0	0	0	0	100	100	0	0	100	0	0	278 (6.58)
samplingmonth	3863	2.67	0	0	0	0	0	0	0	0	0	0	100	0.85	0.24	100	363 (8.59)
samplingtime	920	100	0	0	0	0	1.02	0	100	100	0	100	2.58	100	100	100	3306 (78.2)
uvolume	2307	100	100	100	100	100	100	0	0	0	100	0	0	100	100	100	1919 (45.4)
crt_gL	4220	0	0	0	0	3.33	0	0	0	0	0	0	0	0	0.48	0	6 (0.14)
sg	335	0	100	100	100	100	100	0	100	100	0	100	100	100	100	100	3891 (92.1)
V. Subject characteristics																	
population	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)

pregnancy	3460	0	100	100	100	0	100	0	0	0	0	0	0	100	0	100	766 (18.1)
gaweeks_m	503	6.67	100	100	100	100	100	100	100	100	100	2.93	3.61	100	100	100	3723 (88.1)
birthplace	1346	0	0	0	0	0	1.02	0	92.7	0	0	100	100	0	100	0.62	2880 (68.2)
weight	3781	100	3.10	0.69	0	0	2.04	0.93	12.6	0	0	2.44	1.03	12.8	0.59	10.5	445 (10.5)
height	3960	0	4.65	0	0	0	2.04	0	11.9	0	0	0.49	0.52	7.69	0.59	7.41	266 (6.29)
iscd	2941	0	0	0.69	0	0	1.02	0	13.04	0	2.97	11.7	0.52	18.0	100	100	1285 (30.4)
ses_participant	189	100	0	100	100	0	100	100	100	100	100	100	100	100	100	100	4037 (95.5)
occupation	570	97.3	13.2	9.66	30.4	23.3	12.2	8.41	100	100	100	100	100	69.2	100	100	3656 (86.5)
occupationstatus	767	90.0	0.78	8.28	3.48	3.33	8.16	0.93	100	0	8.91	100	100	100	100	100	3459 (81.8)
country	4226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (0)
nuts1	2545	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	1681 (39.8)
nuts2	446	0	0	100	100	0	100	0	100	100	100	100	100	100	100	100	3780 (89.4)
nuts3	60	100	100	100	100	100	100	100	100	0	100	100	100	100	100	100	4166 (98.6)
subdivision	94	100	100	100	100	100	100	100	100	100	100	100	100	0	100	100	4132 (97.8)
degurba	1746	0	29.5	0	0	0	0	0	100	0	0	100	100	100	0	100	2480 (58.7)
<b>VI. Determinants</b>																	
smoking	2765	0	0	0	0	0	2.04	0	12.8	0	0.99	11.7	0	0	0	1.23	1461 (34.6)
smoking_cigday	1340	0	90.7	89.0	63.5	91.7	89.8	85.1	0	100	83.2	11.7	0.52	100	100	75.9	2886 (68.3)
smoking_passive	1387	0	1.55	6.21	0	0	2.04	0	13.3	0	20.8	1.95	0	28.2	100	100	2839 (67.8)
residence_year	120	100	79.8	94.5	97.4	61.7	87.8	96.3	100	1.67	100	100	100	100	99.1	100	4106 (97.2)
watertap	2161	100	38.8	9.66	19.1	50	9.18	1.87	19.6	100	1.98	100	100	100	100	3.70	2065 (48.9)
watertap_freq	232	100	100	100	100	100	100	100	100	100	1.98	100	100	100	100	3.70	3994 (94.5)
waterbottled	1700	100	64.3	100	80.9	50	100	100	19.2	100	1.98	100	100	0	100	100	2526 (59.8)
waterbottled_freq	76	100	100	100	100	100	100	100	100	100	1.98	100	100	100	100	100	4150 (98.2)
waterwell	103	100	96.9	90.3	100	100	90.8	98.3	100	100	3.96	100	100	100	100	100	4123 (97.6)
waterwell_freq	74	100	100	100	100	100	100	100	100	100	3.96	100	100	100	100	100	4152 (98.2)
plastic_dishes2	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
plastic_dishes	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
plastic_film2	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
plastic_film	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
plastic_kettle2	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
plastic_kettle	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
mixers2	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
mixers	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
plastic_containers2	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
plastic_containers	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
plastic_bottles	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
thermalpaper	1	100	100	100	99.1	100	100	100	100	100	100	100	100	100	100	100	4225 (99.9)
medicaldevice	37	100	100	100	100	100	100	100	100	0	100	100	100	100	100	100	4189 (99.1)
dentalsealant	144	100	100	100	100	100	100	0	100	0	100	100	100	100	100	100	4082 (96.6)
contacts2	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
contacts	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)

personalcare2	1021	0	2.33	4.14	0.87	6.67	5.10	3.74	100	0	14.9	100	100	0	100	100	3205 (75.8)
personalcare	758	0	2.33	4.14	0.87	6.67	5.10	3.74	100	100	100	100	100	100	100	100	3468 (82.1)
inside_hour	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
plasticfloor	1970	100	0.78	5.52	0.87	1.67	28.7	0	27.6	100	100	100	100	100	100	29.6	2256 (53.4)
drinks_bottled2	134	100	100	100	100	100	100	100	100	100	100	100	100	100	100	3.09	4092 (96.8)
drinks_bottled	134	100	100	100	100	100	100	100	100	100	100	100	100	100	100	3.09	4092 (96.8)
sportswear2	132	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4.32	4094 (96.9)
sportswear	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
clothes_synthetic2	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
clothes_synthetic	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)
physical_activity	184	100	100	100	100	100	100	100	100	100	2.97	46.8	100	100	100	100	4042 (95.6)
food_packaged	2013	100	0	1.38	0.87	0	0	0	20.6	100	100	100	100	100	100	100	2213 (52.4)
food_canned	1988	100	0	0	0	100	0	100	19.6	100	100	100	100	0	100	100	2238 (53.0)
drinks_canned	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	4226 (100)

<sup>a</sup> Description of the six groups of the requested variable. **I. Identifiant subject:** *id\_subject*, identifiant (ID) of the subject; *id\_participant*, ID subject of participant (main study subject) to which this subject is linked; *id\_group*, ID of the group (e.g. from a study repeated measures design); **II. Filtering variable:** *matrix*, matrix of the sample; *samplingyear*, year of sample collection; *sex*, sex of participant; *ageyears*, age in years of the subject at sampling; **III. BPA data:** *U\_bpa*, Total BPA level measured in the sample (µg/L); *U\_bpa\_lod*, limit of detection (lod) of total BPA associated with the measurement of the sample (µg/L); *U\_bpa\_loq*, limit of quantification (loq) of total BPA associated with the measurement of the sample (µg/L); *U\_fbpa*, free BPA (unconjugated) level measured in the sample (µg/L); *U\_fbpa\_lod*, lod of free BPA associated with the measurement of the sample (µg/L); *U\_fbpa\_loq*, loq of free BPA associated with the measurement of the sample (µg/L); *U\_cbpa*, conjugated BPA level measured in the sample (µg/L); *U\_cbpa\_lod*, lod of conjugated BPA associated with the measurement of the sample (µg/L); *U\_cbpa\_loq*, loq of conjugated BPA associated with the measurement of the sample (µg/L); **IV. Sample:** *id\_sample*, ID of the biological sample; *lab*, laboratory in which samples were analyzed (abbreviation name); *method*, name of analytical method used by the laboratory; *tube*, type of tube used for sample; *samplingnumber*, number of samples for one individual; *samplingmonth*, month of sample collection; *samplingtime*, time of day of sample; *uvolume*, urine volume collected; *crt\_gL*, concentration of creatinine in urine of the sample (g/L); *sg*, specific gravity of urine of the sample; **V. Subject characteristics:** *population*, subject belongs to general population; *pregnancy*, gestational status of the subject at sampling; *gaweeks\_m*, gestational weeks of the mother at sample taken; *birthplace*, country of birth; *weight*, weight of the subject at sampling (kg); *height*, height of the subject at sampling (cm); *iscad*, niveau d'étude à l'échantillonnage; *ses\_participant*, socioeconomic status of the participant at sampling; *occupation*, industrial sectors; *occupationstatus*, current labour status; *country*, country of residence of the subject at sampling (ISO 3166-1 alpha-2); *nuts1*, NUTS Level 1 of residence of the subject at sampling (NUTS 2016); *nust2*, NUTS Level 2 of residence of the subject at sampling (NUTS 2016); *nust3*, NUTS Level 3 of residence of the subject at sampling (NUTS 2016); *subdivision*, subdivision of country of residence of the subject at sampling (ISO 3166-2); *degurba*, degree of urbanisation of residence at sampling of the subject; **VI. Determinants:** *smoking*, smoking status of the subject at sampling; *smoking\_cigday*, number of cigarettes per day; *smoking\_passive*, current passive exposure to cigarette smoke by the subject at sampling; *residence\_year*, starting year for residence in current place; *watertap*, drinking water from the tap (yes/no); *watertap\_freq*, frequency of drinking tap water; *waterbottled*, drinking water from bottled source (yes/no); *waterbottled\_freq*, frequency of drinking bottled water; *waterwell*, drinking water from well source (yes/no); *waterwell\_freq*, frequency of drinking well water; *plastic\_dishes*, use of plastic crockery/dishes (frequency); *plastic\_dishes2*, use of plastic crockery/dishes (yes/no); *plastic\_film*, use of plastic films for food (frequency); *plastic\_film2*, use of plastic film (yes/no); *plastic\_kettle*, use of plastic electric kettles (frequency); *plastic\_kettle2*, use of plastic kettle (yes/no); *mixers*, use of food mixers (frequency); *mixers2*, use of mixers (yes/no); *plastic\_containers*, use of plastic containers for heating foods in microwave (frequency); *plastic\_containers2*, use of plastic containers (yes/no); *plastic\_bottles*, use of plastic baby bottles; *thermalpaper*, use of thermal papers; *medicaldevice*, use of plastic medical devices; *dentalsealant*, have a dental sealant; *contacts*, use of contact eye lenses (frequency); *contacts2*, use of contacts (yes/no); *personalcare*, use of cosmetics, personal care products (frequency); *personalcare2*, use of cosmetics, personal care products (yes/no); *inside\_hour*, number of daily hours typically spent inside per day; *plasticfloor*, have a plastic floor covering in the house; *drinks\_bottled*, frequency of drinking beverages contained in plastic bottles (other than water); *drinks\_bottled2*, drinks beverages contained in plastic bottles (other than water); *sportswear*, wearing sport clothes in polyester and/or elastane (frequency); *sportswear2*, wearing sport clothes in polyester and/or elastane (yes/no); *clothes\_synthetic*, wearing synthetic clothes (frequency); *clothes\_synthetic2*, wearing synthetic clothes (yes/no); *physical\_activity*, practice of a physical activity (frequency); *food\_packaged*, consumption of food in contact with plastic packaging; *food\_canned*, consumption of canned food (canned : soups, fishes, tuna, vegetables, fruits, tomatos...); *drinks\_canned*, consumption of canned drinks (canned soda, canned juices...).