Children, GM in µg/g crt (factor relative to GMEu; factor relative to lowest concentration)

NL	11.29 (0.4; 1.1)	1.43 (0.4; 1)	16.01 (0.6; 1)	13.61 (0.6; 1)	21.1 (0.6; 1)	1.3 (0.6; 1)	7.86 (0.8; 3.5)	2.62 (0.7; 1.1)		
HU	10.65 (0.4; 1.1)	1.7 (0.4; 1.2)	33.59 (1.2; 2.1)	19.25 (0.8; 1.4)	28.34 (0.8; 1.3)		4.88 (0.5; 2.1)	2.37 (0.6; 1)		
BE	19.72 (0.7; 2)	4.4 (1.1; 3.1)	26.1 (0.9; 1.6)	32.27 (1.4; 2.4)	42.04 (1.1; 2)	2.47 (1.1; 1.9)	2.27 (0.2; 1)	2.46 (0.6; 1)	GM	
DK	10.01 (0.4; 1)		17.75 (0.6; 1.1)	17.66 (0.8; 1.3)	22.05 (0.6; 1)	1.4 (0.6; 1.1)	8.62 (0.9; 3.8)	7.98 (2.1; 3.4)	GM	Country Europe
DE	19.89 (0.7; 2)	3.09 (0.8; 2.2)	25.93 (0.9; 1.6)	20.92 (0.9; 1.5)	30.52 (0.8; 1.4)	2.34 (1.1; 1.8)	13.11 (1.4; 5.8)	3.54 (0.9; 1.5)	Giv	Europe *4
SK								2.83 (0.7; 1.2)		*2
PL	55.3 (2; 5.5)	2.24 (0.6; 1.6)		39 (1.7; 2.9)	44.58 (1.2; 2.1)	1.84 (0.9; 1.4)	8.66 (0.9; 3.8)	2.51 (0.6; 1.1)		_
NO	17.46 (0.6; 1.7)	5.4 (1.4; 3.8)	28.26 (1; 1.8)	24.46 (1; 1.8)	36.84 (1; 1.7)					GM _{Eu}
GR	59.59 (2.2; 6)	2.57 (0.7; 1.8)	31.25 (1.1; 2)	23.3 (1; 1.7)	38.09 (1; 1.8)		11.34 (1.2; 5)	3.66 (0.9; 1.5)		*1/2
SI	30.93 (1.1; 3.1)	3.63 (0.9; 2.5)	29.07 (1; 1.8)	19.91 (0.9; 1.5)	44.9 (1.2; 2.1)	2.55 (1.2; 2)	11.69 (1.3; 5.1)	4.35 (1.1; 1.8)		*1/4
IT	70.59 (2.6; 7)	6.72 (1.7; 4.7)	35.34 (1.2; 2.2)	22.16 (0.9; 1.6)	58.03 (1.6; 2.8)			7.15 (1.8; 3)		
FR	63 (2.3; 6.3)	12.66 (3.3; 8.8)	49.79 (1.7; 3.1)	27.7 (1.2; 2)	54.31 (1.5; 2.6)	3.82 (1.8; 2.9)	22.45 (2.4; 9.9)	5.04 (1.3; 2.1)		
	MEP MBzP MiBP MnBP ΣDEHPm ΣDiDPm ΣDiNPm ΣDINCHm									

Adolescents, GM in µg/g crt (factor relative to lowest value per substance)

BE	20.77 (0.6; 1.3)	1.76 (0.9; 2.1)	15.65 (0.8; 1)	11.56 (0.6; 1)	17.19 (0.8; 1.2)	1.51 (1; 1.4)	4.3 (0.6; 1)	1.65 (0.9; 1.2)	
DE	20.25 (0.6; 1.2)	1.89 (0.9; 2.3)	16.87 (0.9; 1.1)	13.48 (0.7; 1.2)	16.09 (0.7; 1.1)	1.44 (0.9; 1.3)	7.2 (0.9; 1.7)	1.66 (0.9; 1.2)	
SE		4.4 (2.1; 5.3)			14.1 (0.7; 1)	1.11 (0.7; 1)	8.26 (1.1; 1.9)	1.43 (0.8; 1)	$GM_Country$
PL	31.35 (1; 1.9)	1.26 (0.6; 1.5)		24.95 (1.3; 2.2)	24.87 (1.2; 1.8)	1.13 (0.7; 1)	5.94 (0.8; 1.4)	1.41 (0.7; 1)	GM _{Europe}
SI	27.11 (0.8; 1.7)	2.59 (1.3; 3.1)	16.86 (0.9; 1.1)	13.35 (0.7; 1.2)	19.94 (0.9; 1.4)	1.42 (0.9; 1.3)	5.97 (0.8; 1.4)	2.12 (1.1; 1.5)	*4
CZ	28.23 (0.9; 1.7)	1.23 (0.6; 1.5)		19.08 (1; 1.7)	19.75 (0.9; 1.4)				*2
GR	49.21 (1.5; 3)	1.56 (0.8; 1.9)	16.28 (0.8; 1)	12.91 (0.7; 1.1)	20.77 (1; 1.5)		7.51 (1; 1.7)	1.79 (0.9; 1.3)	GM _{Eu}
SK	35.12 (1.1; 2.2)	0.82 (0.4; 1)		53.61 (2.9; 4.6)	31.71 (1.5; 2.2)			1.64 (0.9; 1.2)	*1/2
NO	16.29 (0.5; 1)	4.5 (2.2; 5.5)	25.39 (1.3; 1.6)	22.67 (1.2; 2)	25.56 (1.2; 1.8)				*1/4
ES	74.68 (2.3; 4.6)	1.49 (0.7; 1.8)	17.73 (0.9; 1.1)	13.42 (0.7; 1.2)	22.57 (1; 1.6)	2.15 (1.4; 1.9)	9.85 (1.3; 2.3)	2.64 (1.4; 1.9)	
FR	52.34 (1.6; 3.2)	7.46 (3.6; 9.1)	30.56 (1.6; 2)	18.78 (1; 1.6)	33.18 (1.5; 2.4)	2.55 (1.6; 2.3)	16.6 (2.1; 3.9)	3.4 (1.8; 2.4)	
·	MEP	MBzP	MiBP	MnBP	ΣDEHPm	$\Sigma DiDPm$	ΣDiNPm	ΣDINCHm	

Supplementary Figure 4. Heatmap of comparisons of each study's GM (geometric mean; $\mu g/g$ crt) to the European GMs (GM_{Eu} , $\mu g/g$ crt; in white). The darker pink cells indicate relatively higher metabolite concentrations of a specific phthalate/DINCH compared to the GM_{Eu} and the darker blue cells indicate relatively lower metabolite concentrations of a specific phthalate/DINCH compared to the GM_{Eu} , while the white cells indicate similar metabolite concentrations of a specific phthalate/DINCH in the present study as the GM_{Eu} . Grey cells show missing data (e.g. no quality-assured data). Each cell gives the respective GM (calculated with survey methods) for a metabolite or sum from a country in $\mu g/g$ crt. The first value in the brackets gives the proportion of that GM relative to the GM_{Eu} (e.g. 0.5 meaning this GM is half the GM_{Eu}). The second value in the bracket gives the proportion relative to the lowest GM of that metabolite or sum (e.g. 1 = the lowest GM; 7 = GM is 7 times higher than the lowest GM for that metabolite or sum).