

**Supplementary information table 1. Significantly higher levels ( $p < 0.05$  or  $p < 0.10$  (\*)) of putatively identified DNA adducts (not relevant to hypothesis) in pre-colonic meat digests (T0) after two sample differential analysis by means of Sieve™ database lookup**

Discriminating for	DNA adduct	RT	
Chicken vs. Beef	Carboxy-G (*)	0.81	
	Heptenaetheno-G	4.01	
	Hydroxy-A	3.22	
	Hydroxy-A	3.48	
	Hydroxy-A (*)	2.64	
	Hydroxy-PhIP-G (Hydroxy-aminomethylphenylimidazopyridine-G) (*)	3.75	
	Hydroxynonenal-A	2.65	
	Hydroxynonenal-A	2.84	
	IQ-G (Aminomethylimidazoquinolone-G)	1.29	
	M1-A (Malondialdehyde dimer guanine DNA adduct)	0.86	
	M1-G (Pyrimidopurinone)	4.36	
	M3-C (Diformyldihydromethano-oxazocinyloxopyrimidine)	1.05	
	MeIQ-G (Aminodimethylimidazoquinolone-G)	5.08	
	Methoxymethyl-C	0.77	
	Methoxymethyl-T	3.62	
	Methyl-A (*)	1.13	
	Methyl-C	1.39	
	Methyl-C	2.68	
	Methyl-C (*)	3.80	
	Methyl-T or Ethyl-U	3.16	
	Methyl-T or Ethyl-U	3.84	
	Methyl-T or Ethyl-U (*)	1.17	
	PhIP-G (Aminomethylphenylimidazopyridine-G)	1.41	
	ST-G (Sterigmatocystin-G)	1.72	
	Tetramethyl-C	0.86	
	Chicken + CaCO <sub>3</sub> vs. Chicken	1,N6-etheno-A	1.54
		Dimethyl-T or Ethyl-T	1.02
		Dimethyl-T or Ethyl-T	1.04
		Dimethyl-T or Ethyl-T	1.27
		Dimethyl-T or Ethyl-T	2.62
		Dimethyl-T or Ethyl-T	3.80
		Dimethyl-T or Ethyl-T	4.11
		Dimethyl-T or Ethyl-T	4.23
Methoxymethyl-C		3.05	
Methoxymethyl-T		2.05	
Methyl-T or Ethyl-U		2.10	
Methyl-T or Ethyl-U		2.50	
Nitro-C		3.29	
Beef + CaCO <sub>3</sub> vs. Beef		Dimethyl-T or Ethyl-T	0.71
		Dimethyl-T or Ethyl-T	1.02
	Dimethyl-T or Ethyl-T	1.28	
	Dimethyl-T or Ethyl-T	1.62	
	Dimethyl-T or Ethyl-T	2.87	
	Dimethyl-T or Ethyl-T	2.70	
	Dimethyl-T or Ethyl-T	4.22	
	Hydroxynonenal-C	1.30	
	Hydroxymethylhydantion (*)	2.80	
	Diformyldihydromethano-oxazocinyloxopyrimidine (M3-C)	3.93	
	Methoxymethyl-T	2.10	
	Methyl-C (*)	2.89	
	Methyl-T or Ethyl-U	2.51	
	Methyl-U	2.42	
	Methyl-U	3.90	
	Nitro-C	2.76	
	Nitro-C	3.29	