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*Programas de Actividades de I + D
entre grupos de investigación de la
Comunidad
de Madrid en Tecnologías 2018*



AIRTEC-CM

EVALUACIÓN INTEGRAL DE LA CALIDAD DEL AIRE URBANO Y CAMBIO CLIMÁTICO

S2018/EMT-4329

4ª Reunión del Comité Científico-Técnico

12 Enero 2023, UCM, Madrid



CONTAMINACIÓN ATMOSFÉRICA Y ENFERMEDADES CARDIOVASCULARES

La contaminación atmosférica es el **mayor riesgo medioambiental del mundo para la salud**

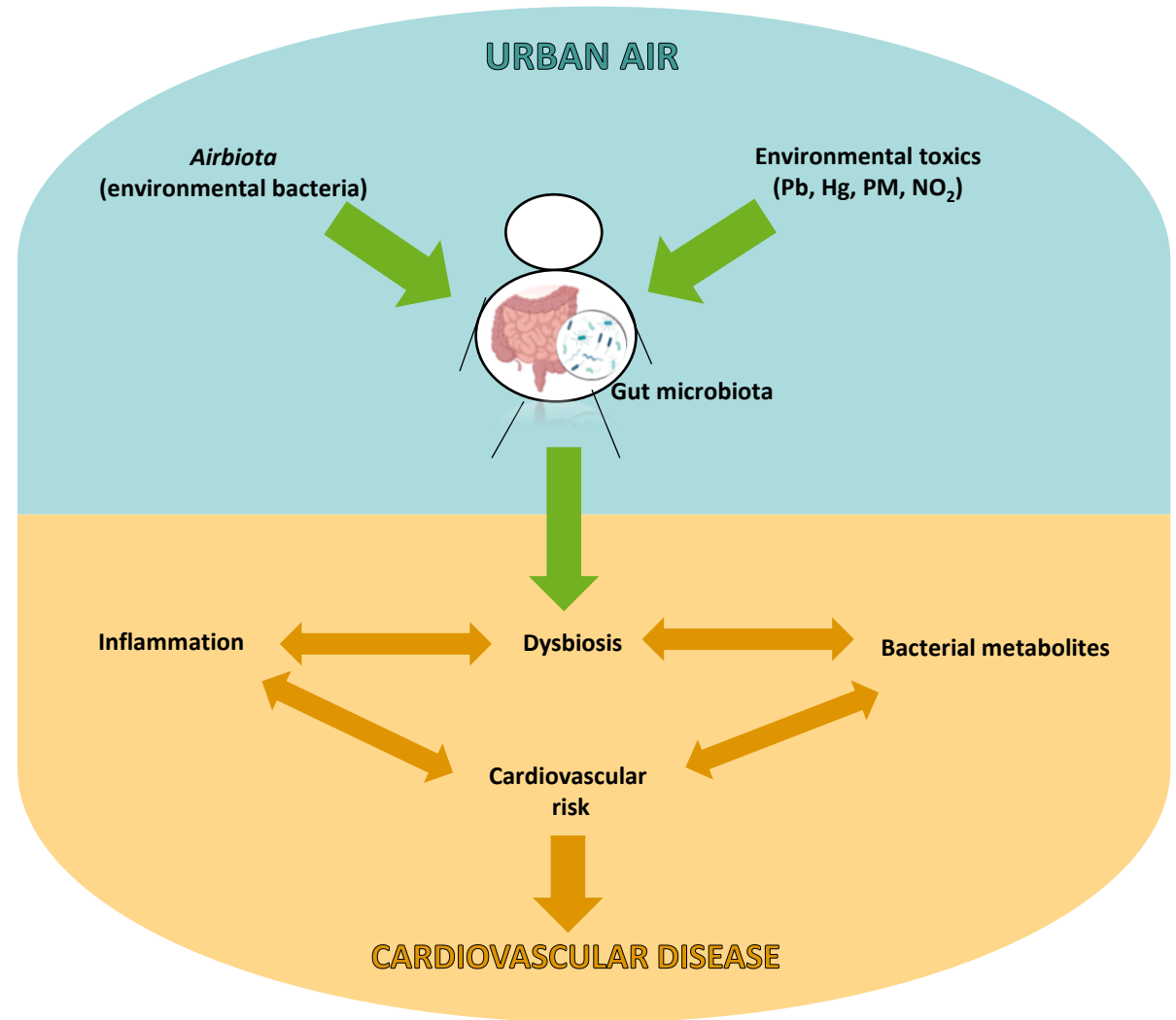
7 MILLONES DE PERSONAS

mueren a causa de la contaminación del aire interior y exterior



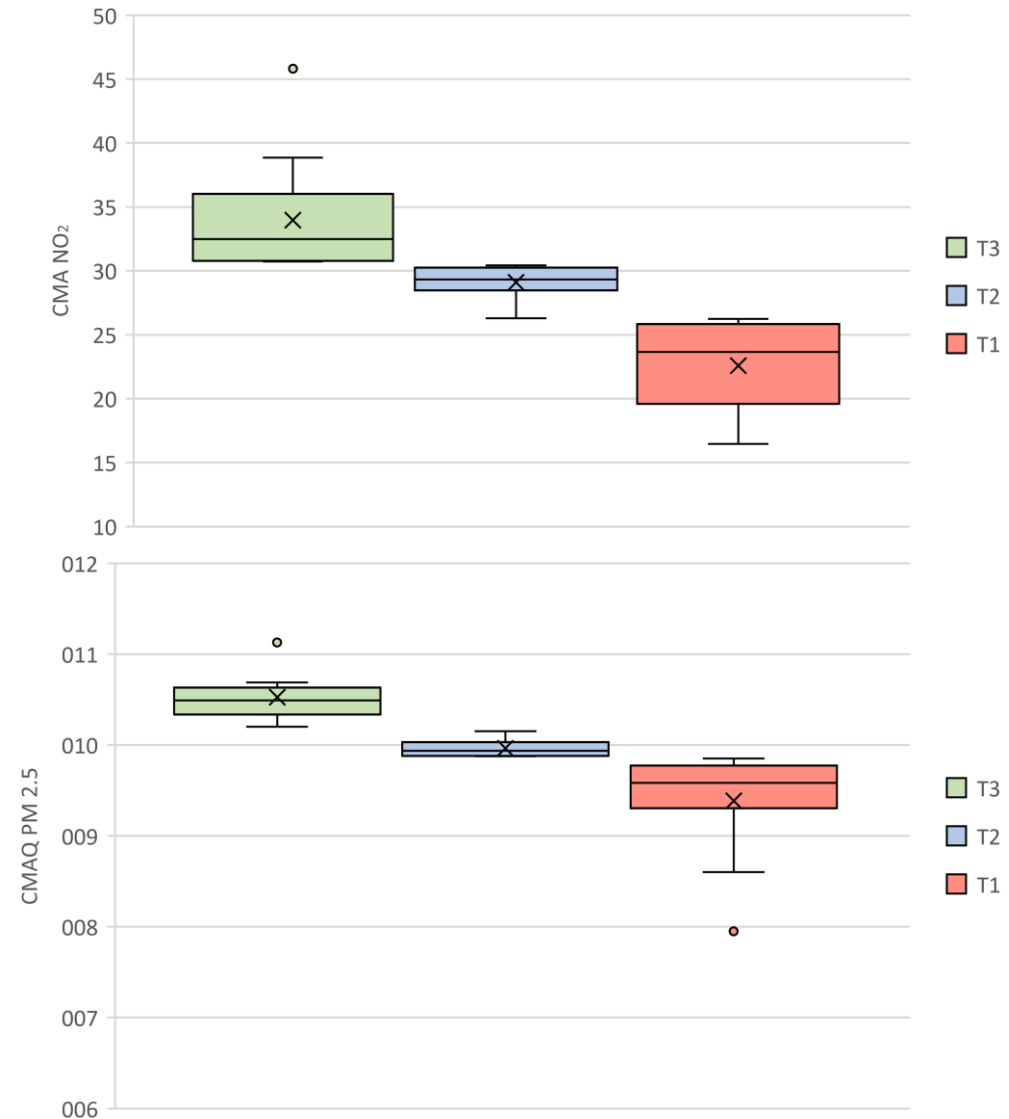
50%

mueren por enfermedades cardiovasculares (ECV)

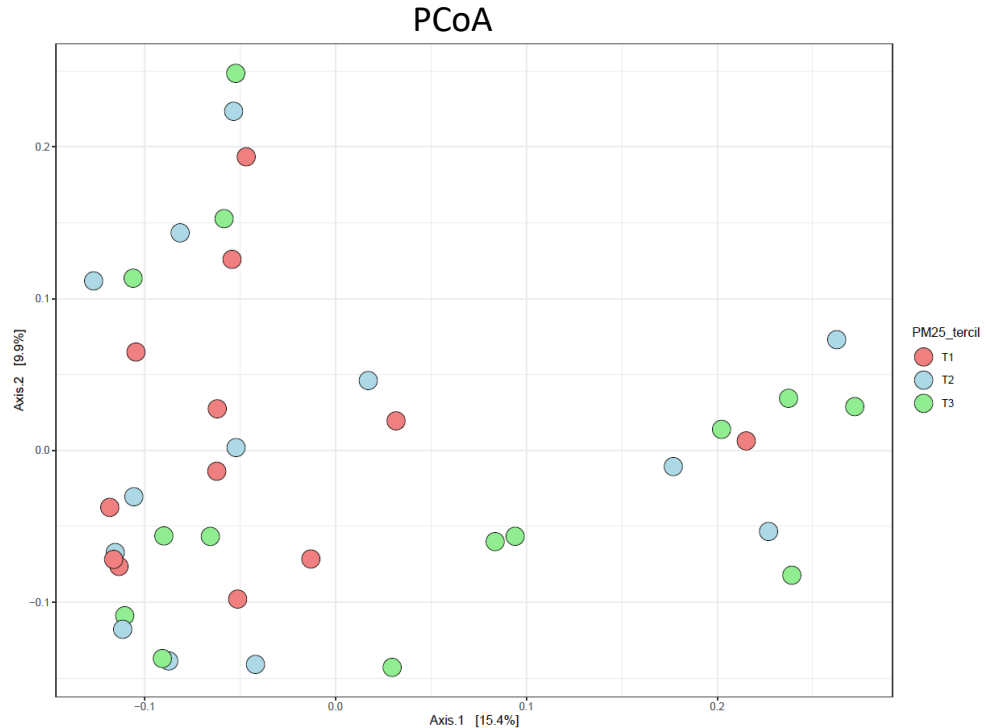


ANÁLISIS POR TERCILES EN EXPOSICIÓN DE NO₂ Y PM_{2.5}

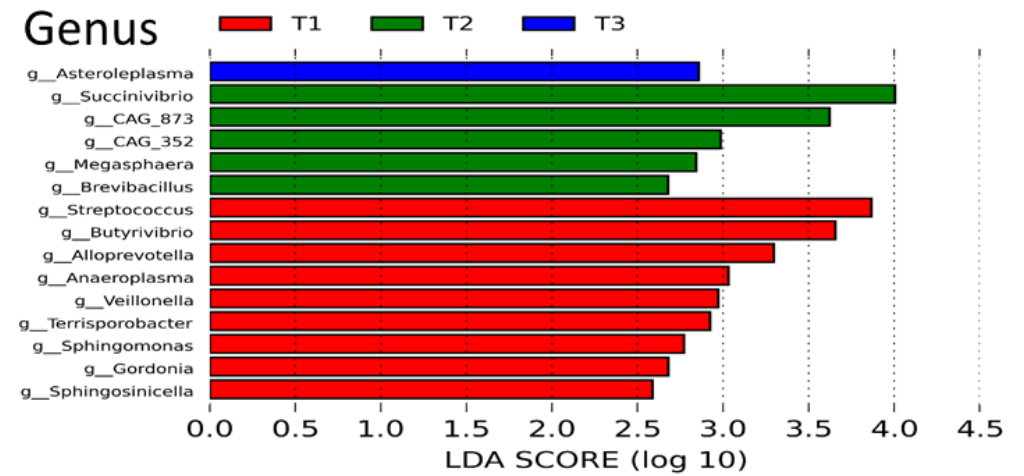
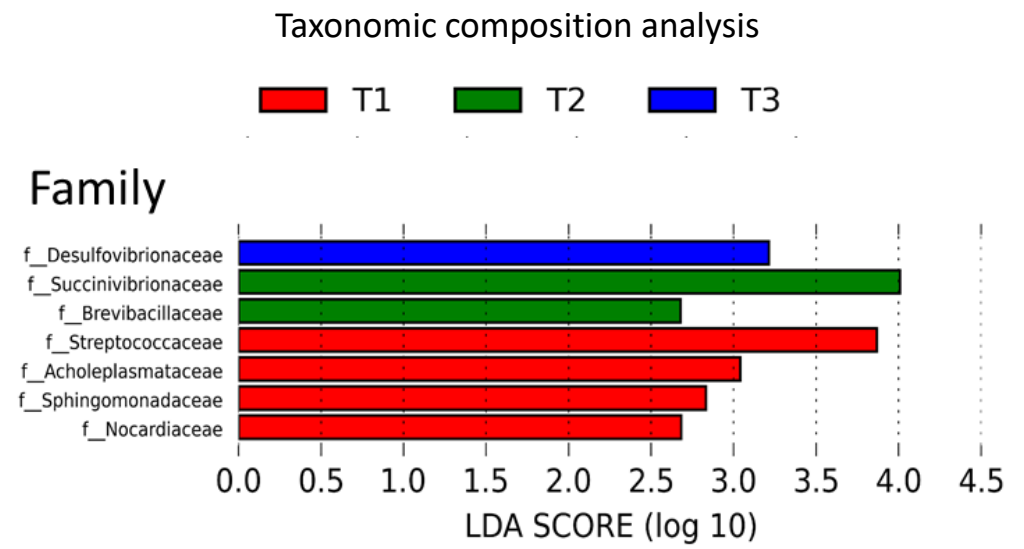
	CMAQ NO ₂		CMAQ PM 2.5
sample5	45,81	sample55	11.13
ct12	38,87	sample38	10.69
sample39	36,97	sample39	10.64
sample56	36,02	ext4	10.63
sample44	35,56	ct12	10.63
sample55	33,83	sample56	10.60
ct13	33,37	ct19	10.51
ct19	32,48	ct13	10.47
ct8	31,72	ct11	10.46
ct9	31,14	ct9	10.40
sample50	30,8	ct8	10.34
sample40	30,77	ct15	10.34
ct15	30,73	ct16	10.34
sample54	30,73	sample48	10.20
ct16	30,72	sample46	10.15
sample38	30,43	sample47	10.15
sample34	30,39	sample45	10.09
sample36	30,26	sample2	9.98
sample35	30,25	sample33	9.95
sample37	30,2	sample50	9.95
ext4	29,97	sample40	9.94
ct11	29,92	sample41	9.93
ct1	28,73	sample42	9.89
sample29	28,69	sample5	9.88
sample51	28,66	sample35	9.88
sample53	28,54	sample49	9.88
sample48	28,31	sample34	9.88
sample28	26,72	sample53	9.85
sample47	26,29	sample44	9.81
sample49	26,25	sample37	9.79
sample46	26,13	sample43	9.74
ct3	25,76	sample29	9.71
sample41	25,6	sample36	9.66
sample45	24,88	ct1	9.51
sample52	22,43	ct3	9.39
sample33	20,34	sample54	9.34
sample43	20,21	sample51	9.29
sample2	17,78	sample28	8.60
sample42	16,45	sample52	7.95



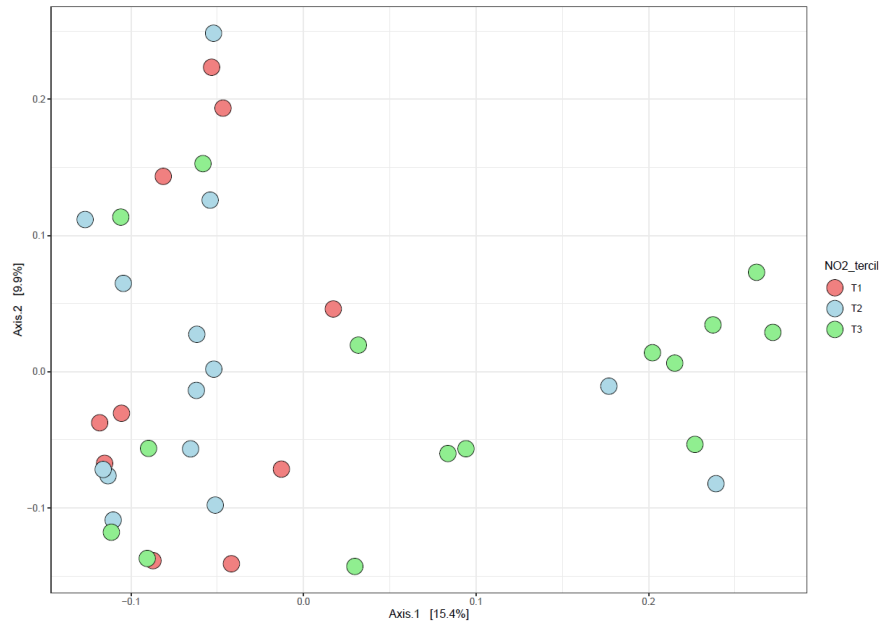
CMAQ PM2.5



- BETA DIVERSITY PM25 exposures -			
PERMANOVA			
	P-value (T3 vs T2)	P-value (T3 vs T1)	P-value (T2 vs T1)
Bray curtis	0.216	0.173	0.435
Jaccard	0.131	0.251	0.318
Jensen-shannon	0.191	0.172	0.316
ANOSIM			
	P-value (T3 vs T2)	P-value (T3 vs T1)	P-value (T2 vs T1)
Bray curtis	0.212	0.247	0.413
Jaccard	0.112	0.293	0.234
Bray curtis	0.182	0.219	0.317



PCoA



CMAQ NO₂

- BETA DIVERSITY NO2 exposures-			
PERMANOVA			
	P-value (T1 vs T3)	P-value (T1 vs T2)	P-value (T3 vs T2)
Bray curtis	0.004	0.266	0.023
Jaccard	0.007	0.555	0.008
Jensen-shannon	0.005	0.384	0.036
ANOSIM			
	P-value (T1 vs T3)	P-value (T1 vs T2)	P-value (T3 vs T2)
Bray curtis	0.007	0.176	0.024
Jaccard	0.01	0.295	0.009
Jensen-shannon	0.004	0.325	0.028

Cluster

