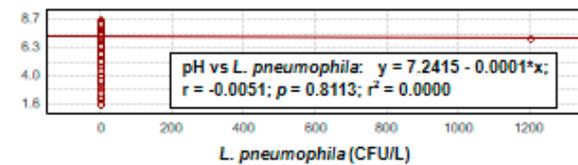
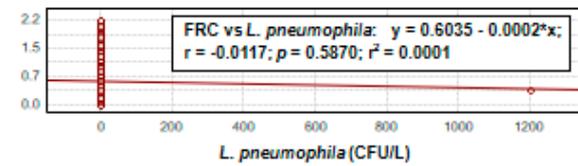
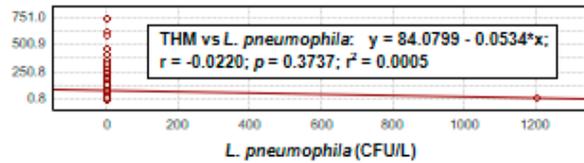
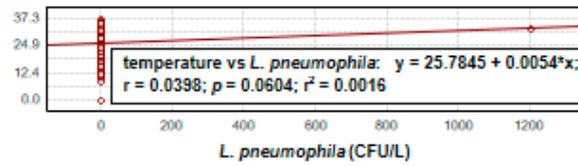
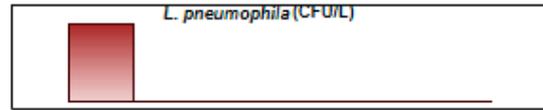
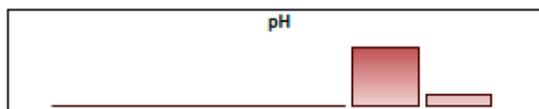
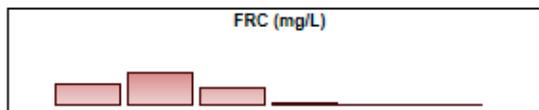
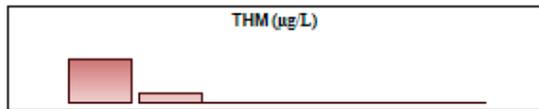
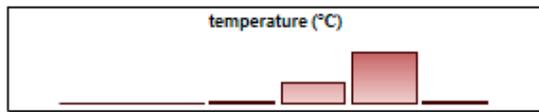
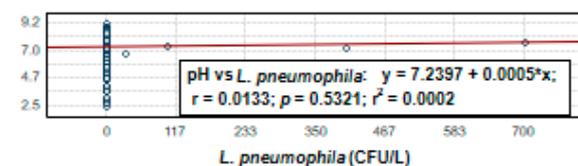
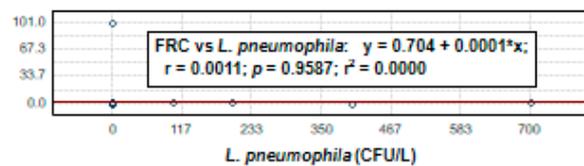
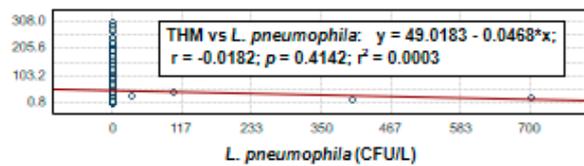
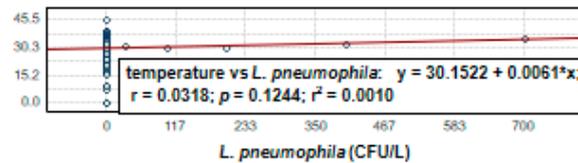
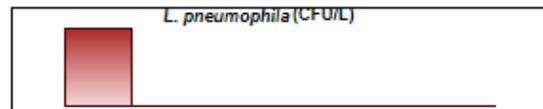
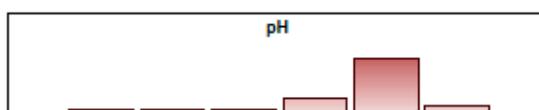
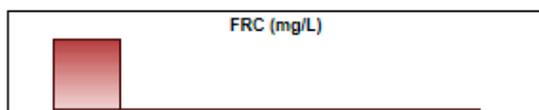
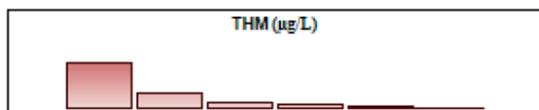
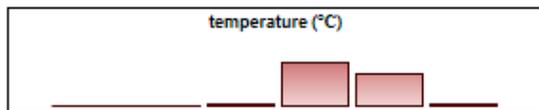


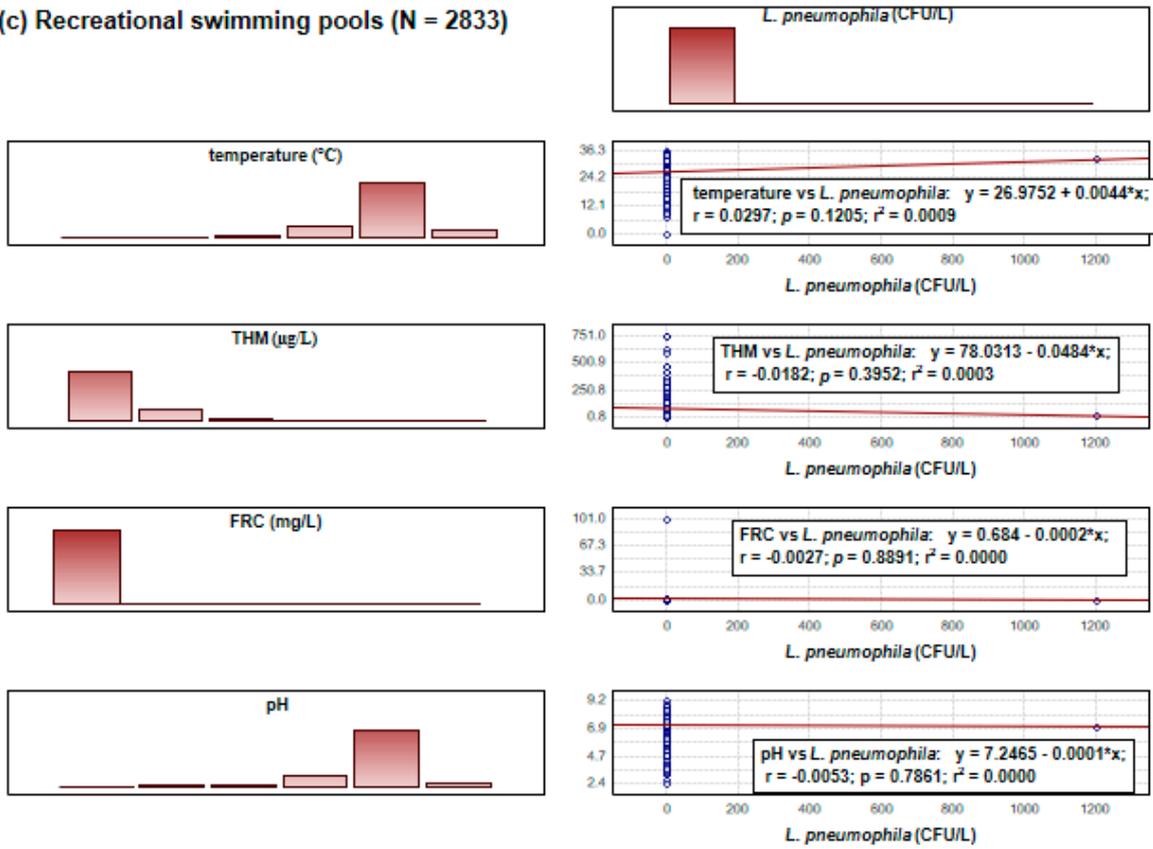
(a) Outdoor swimming pools (N = 2233)



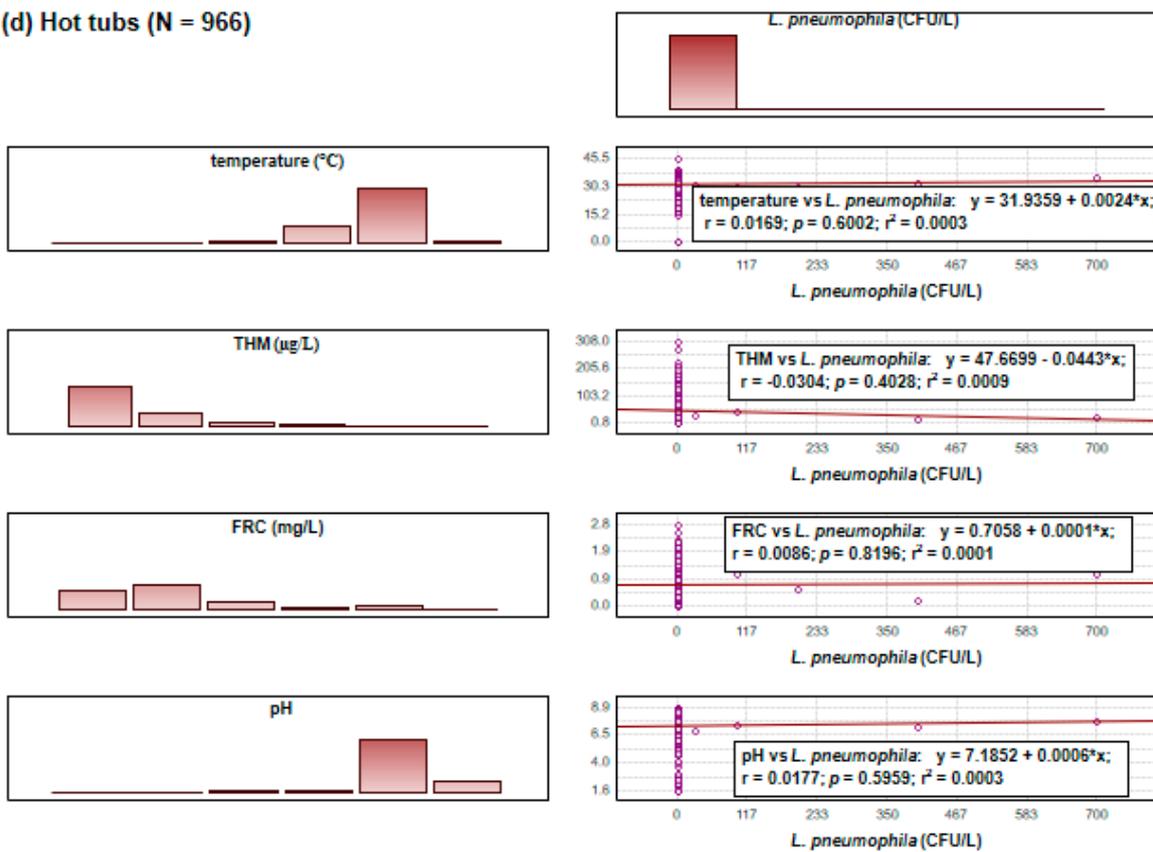
(b) Indoor swimming pools (N = 2354)



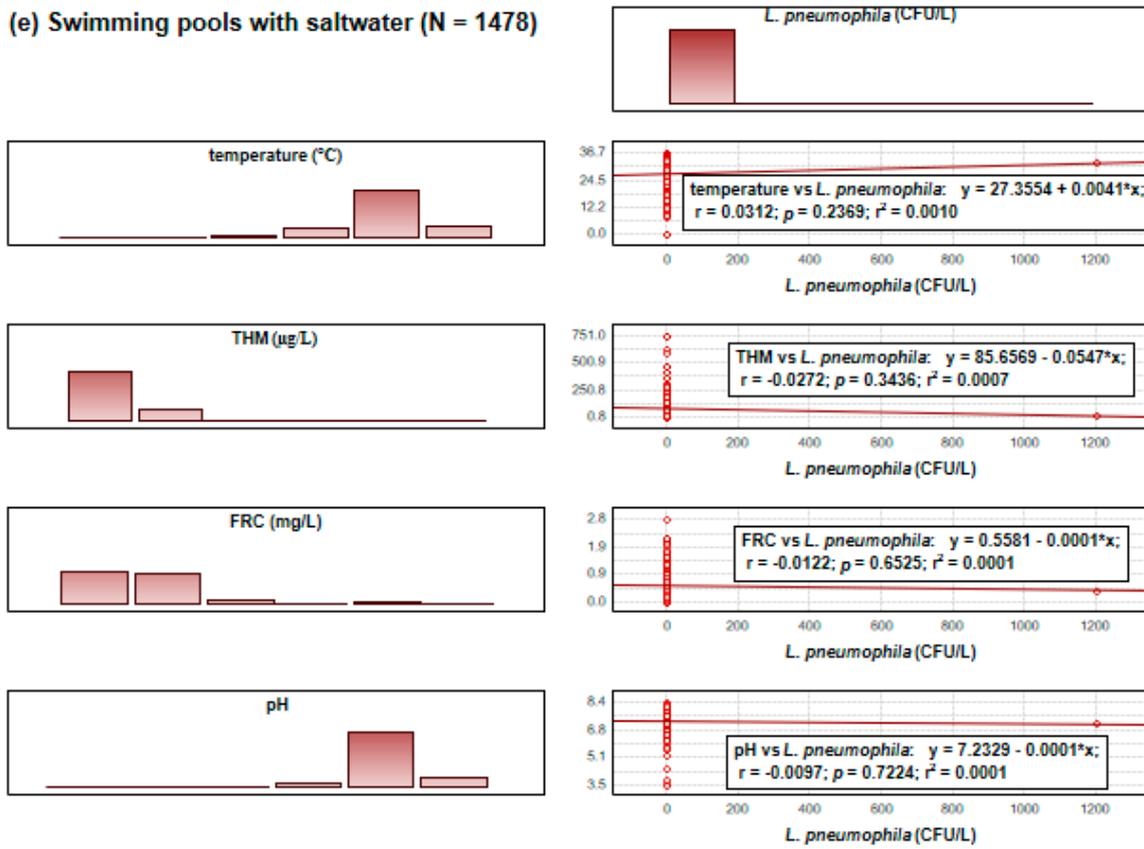
(c) Recreational swimming pools (N = 2833)



(d) Hot tubs (N = 966)



(e) Swimming pools with saltwater (N = 1478)



(f) Swimming pools with freshwater (N = 3109)

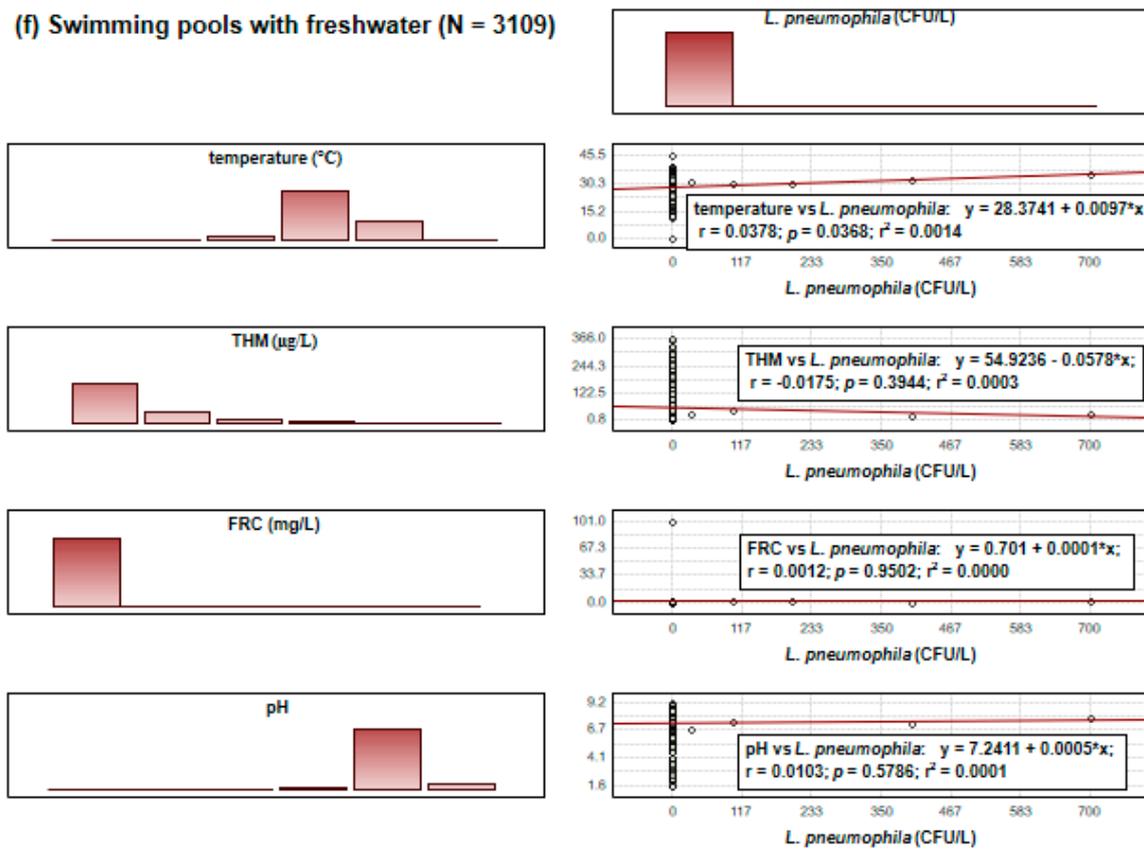
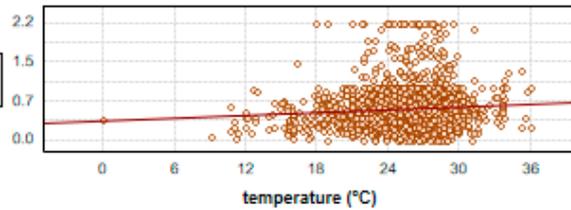
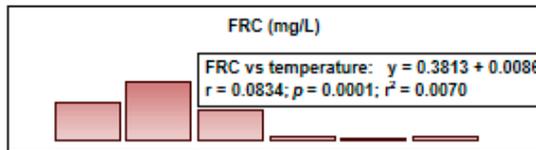
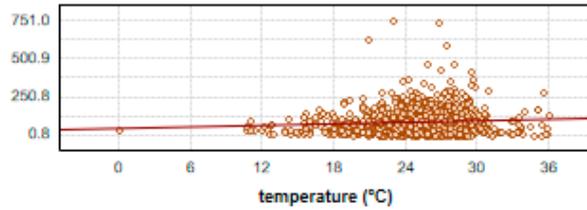
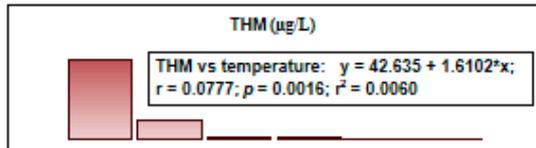
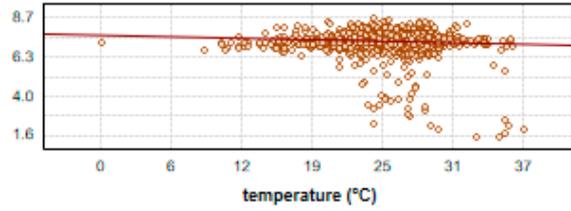
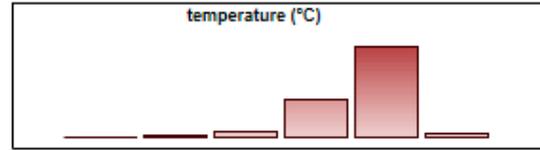
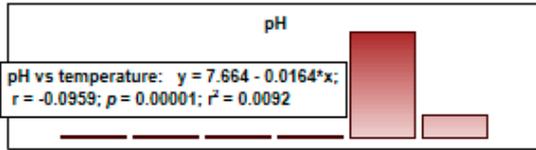
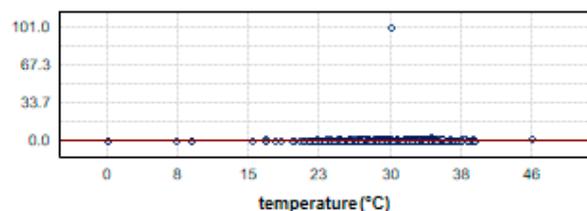
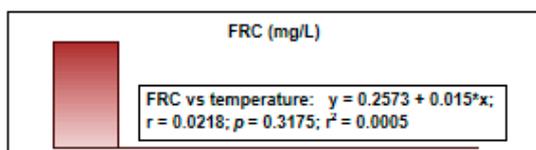
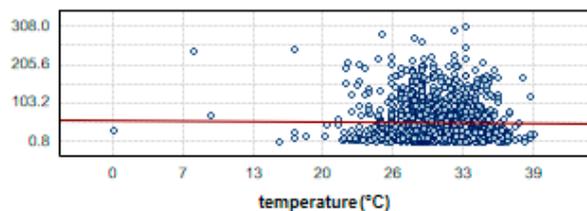
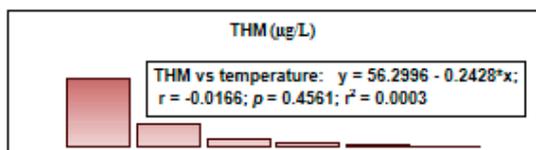
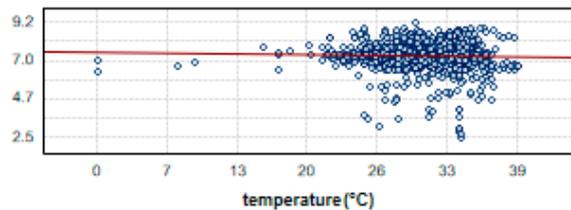
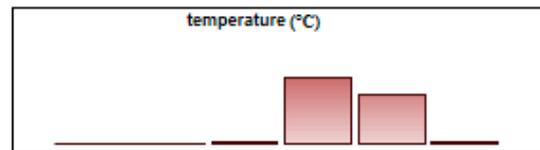
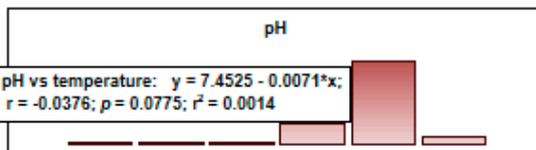


Figure S1. Correlations between *L. pneumophila* and physico-chemical characteristics (temperature, pH, THM, FRC) of waters in: a) outdoor, b) indoor, c) recreational swimming pools, d) hot tubs, e) swimming pools with salt water, and f) swimming pools with fresh water.

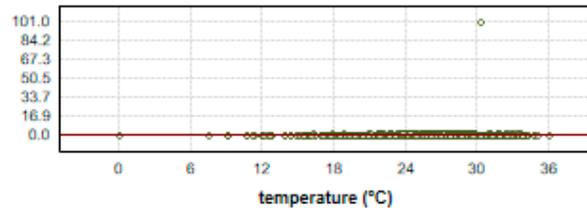
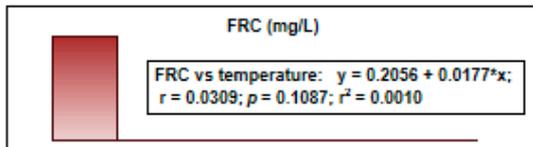
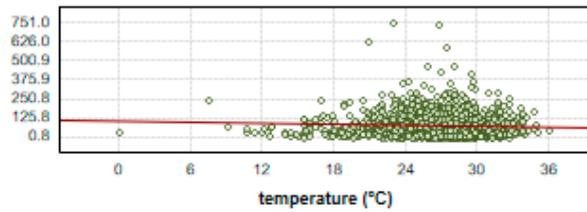
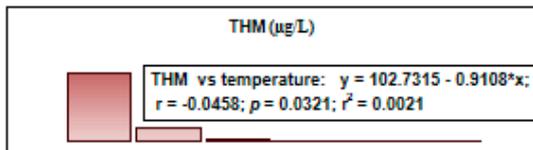
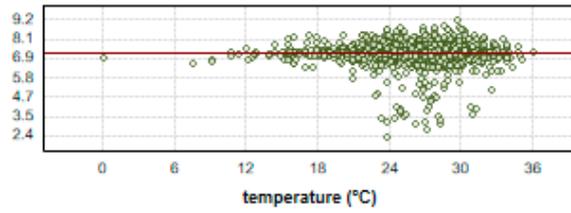
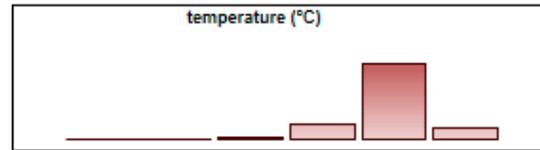
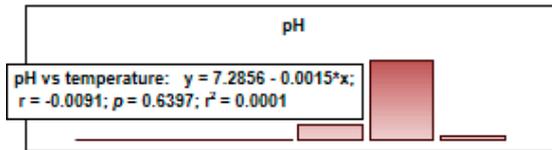
(a) Outdoor swimming pools (N = 2233)



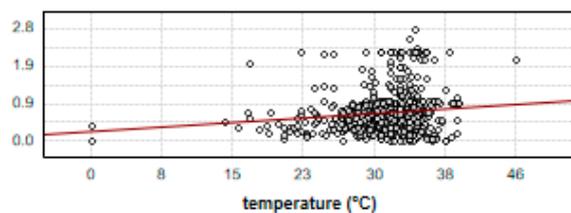
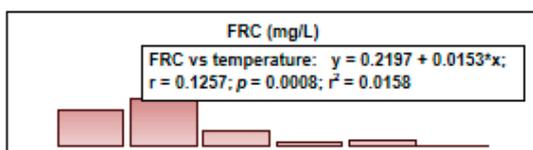
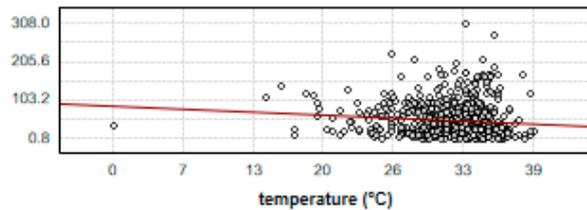
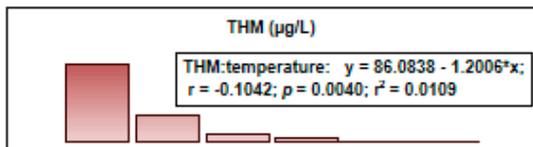
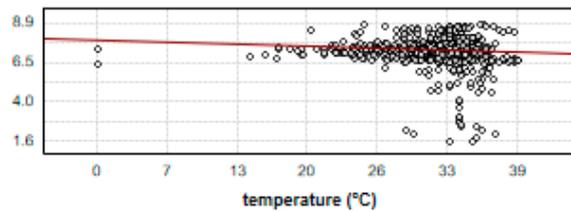
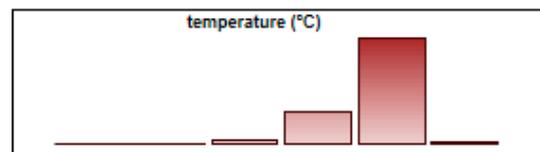
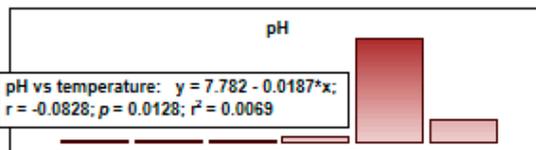
(b) Indoor swimming pools (N = 2354)



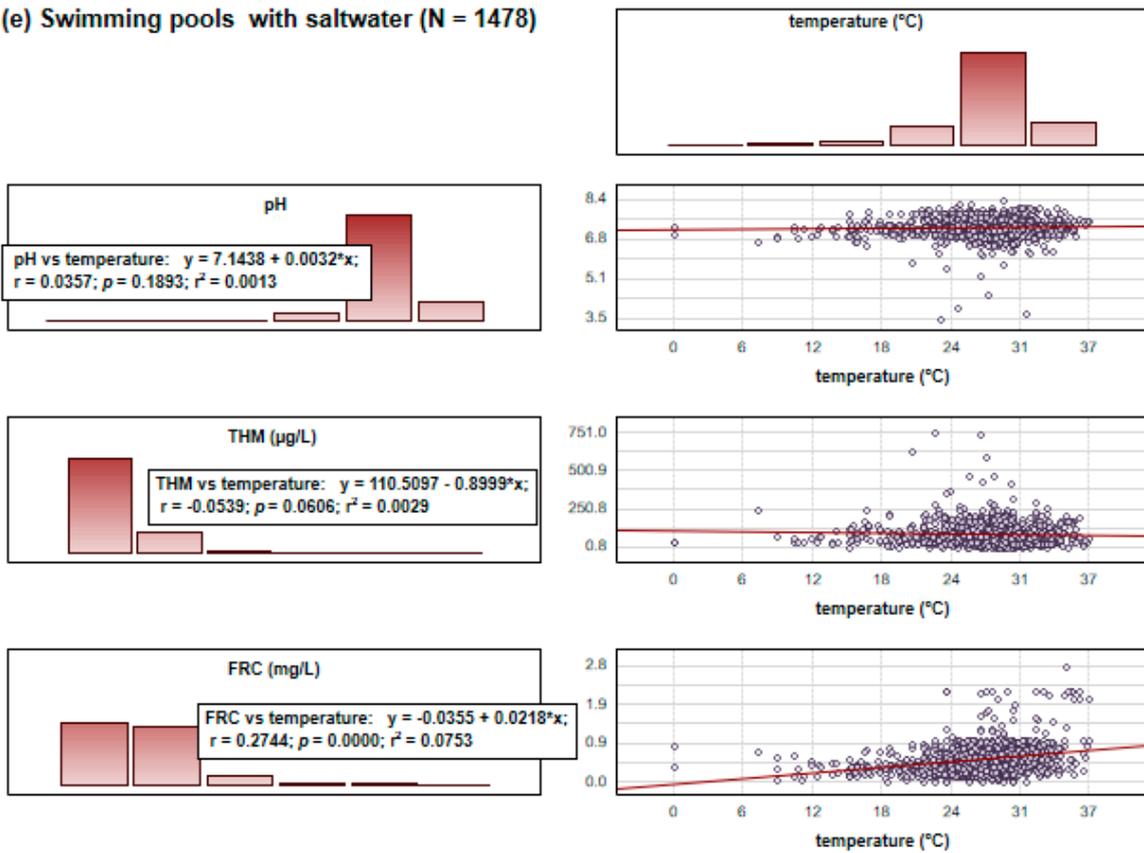
(c) Recreational swimming pools (N = 2833)



(d) Hot tubs (N = 966)



(e) Swimming pools with saltwater (N = 1478)



(f) Swimming pools with freshwater (N = 3109)

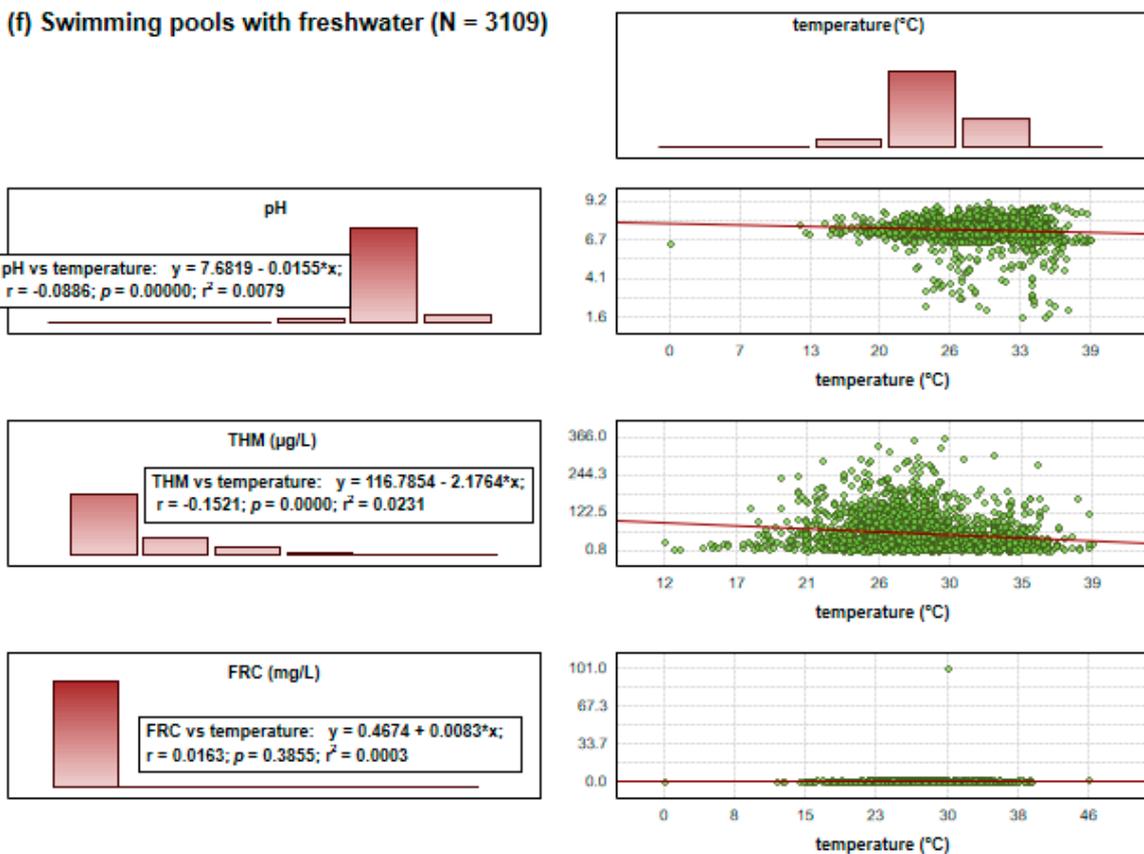


Figure S2. Correlations between temperature and physico-chemical characteristics (pH, THM, FRC) of waters in: a) outdoor, b) indoor, c) recreational swimming pools, d) hot tubs, e) swimming pools with salt water, and f) swimming pools with fresh water.

Table S1. Eigenvector values and variable contributions for analyzed swimming water pools' physico-chemical parameters (temperature (°C), pH, trihalomethanes (THM; µg/L), free residual chlorine (FRC; mg/L)), and bacteria: *Legionella pneumophila* (CFU/L), depending on whether it was an indoor or outdoor swimming pool and the type of swimming pool (children's, recreational, hot tub, or sports/Olympic), as determined by principal component analysis (PCA) with first three main components (PC 1, PC 2 and PC 3). (N_{pool data} = 4587; N_{outdoor} = 2233; N_{indoor} = 2354).

Variable	Eigenvector spreadsheet		
	PC 1	PC 2	PC 3
temperature	0.43	-0.43	0.29
pH	-0.45	0.19	-0.60
THM	0.53	0.30	-0.41
FRC	0.57	0.21	-0.31
<i>L. pneumophila</i>	0.01	-0.80	-0.53

Variable	Variable contribution		
	PC 1	PC 2	PC 3
temperature	0.19	0.19	0.08
pH	0.20	0.04	0.37
THM	0.29	0.09	0.17
FRC	0.33	0.04	0.10
<i>L. pneumophila</i>	0.01	0.64	0.28

Table S2. Eigenvector values and variable contributions for analyzed swimming water pools' physico-chemical parameters (temperature (°C), pH, trihalomethanes (THM; µg/L), free residual chlorine (FRC; mg/L)), and bacteria: *Legionella pneumophila* (CFU/L), depending on water in swimming pool (saltwater or freshwater) and type of swimming pool (children's, recreational, hot tub, or sports/Olympic), as determined by principal component analysis (PCA) with first three main components (PC 1, PC 2 and PC 3). (N_{pool data} = 4587; N_{saltwater} = 1478; N_{indoor} = 3109).

Variable	Eigenvector spreadsheet		
	PC 1	PC 2	PC 3
temperature	0.45	-0.62	-0.02
pH	-0.32	-0.55	-0.26
THM	0.48	0.49	-0.02
FRC	0.68	-0.19	-0.08
<i>L. pneumophila</i>	-0.01	-0.17	0.96

	Variable contribution		
	PC 1	PC 2	PC 3
temperature	0.20	0.39	0.01
pH	0.10	0.31	0.07
THM	0.23	0.24	0.01
FRC	0.47	0.04	0.01
<i>L. pneumophila</i>	0.01	0.03	0.93
