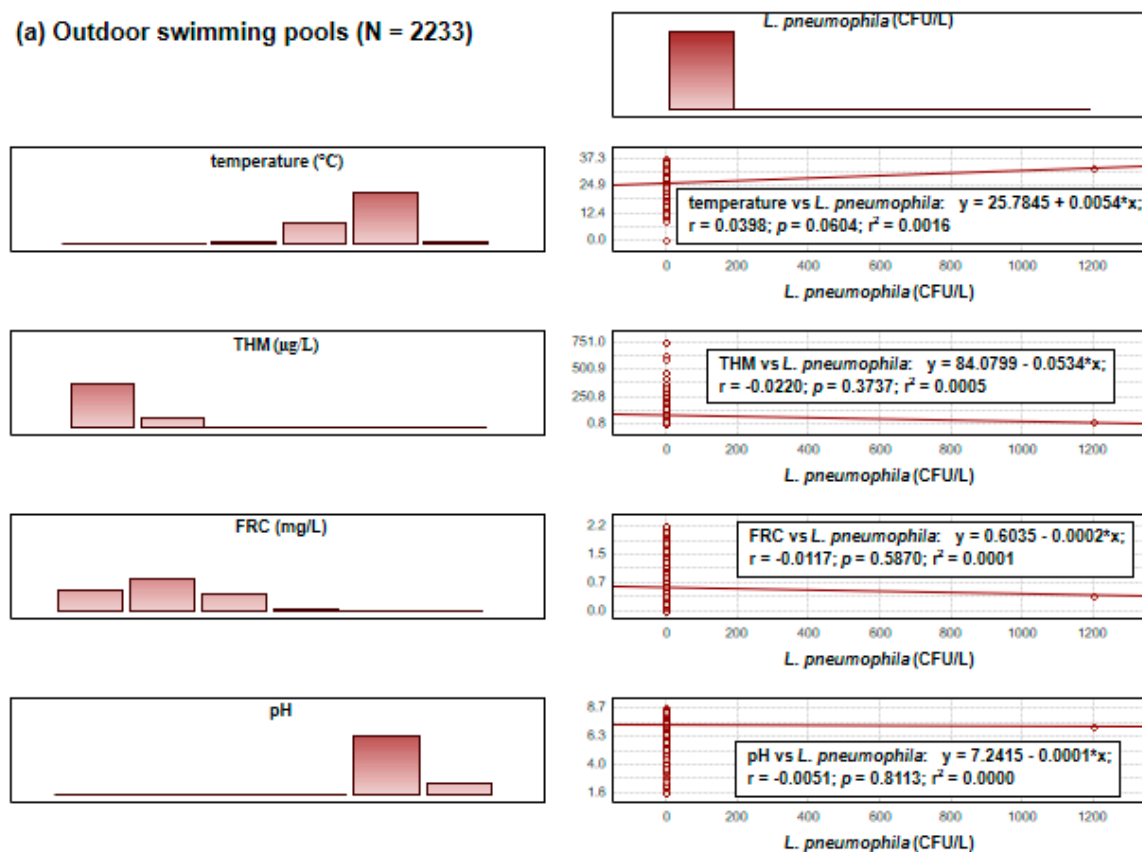
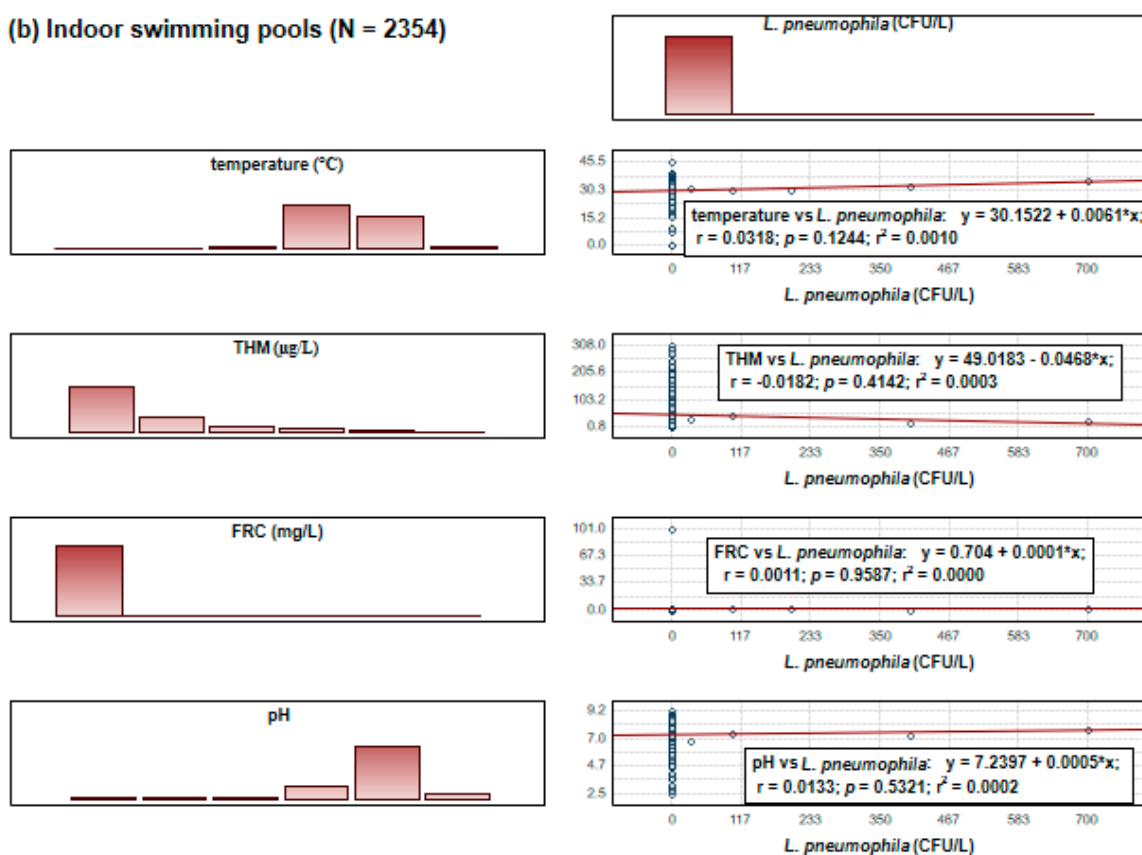


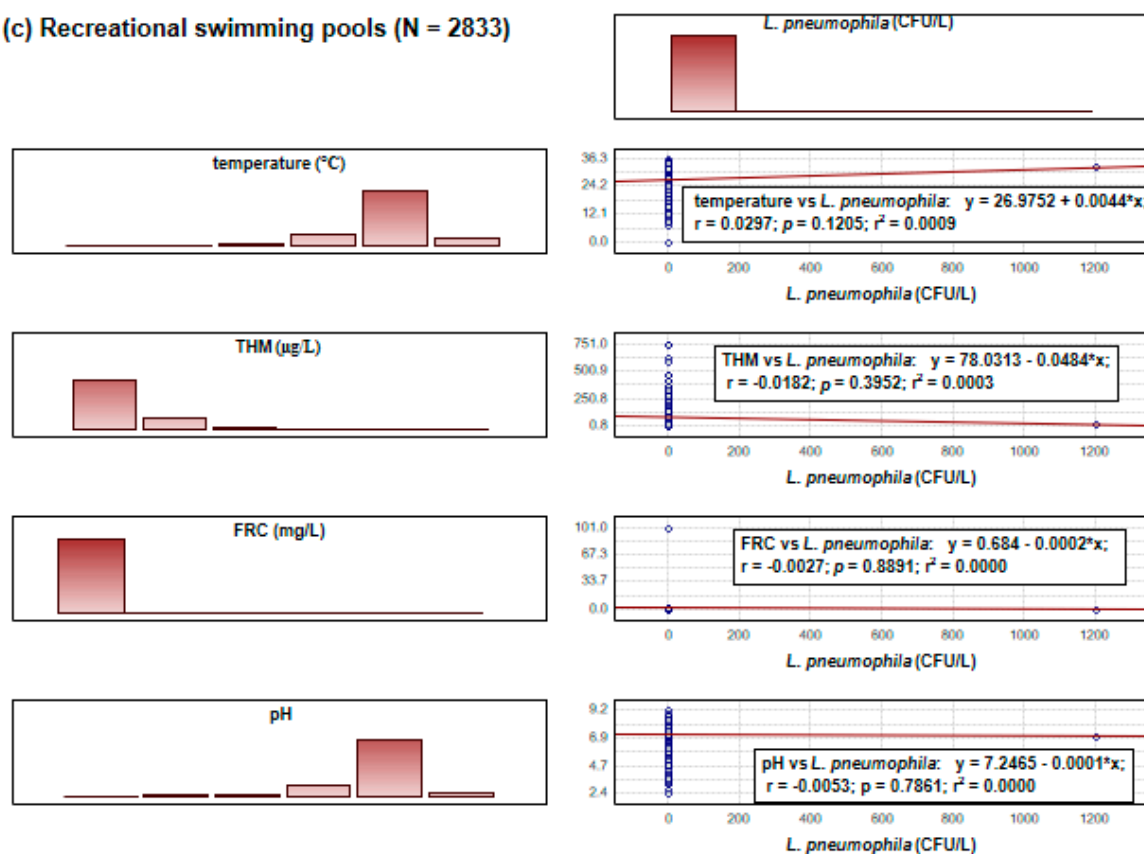
(a) Outdoor swimming pools (N = 2233)



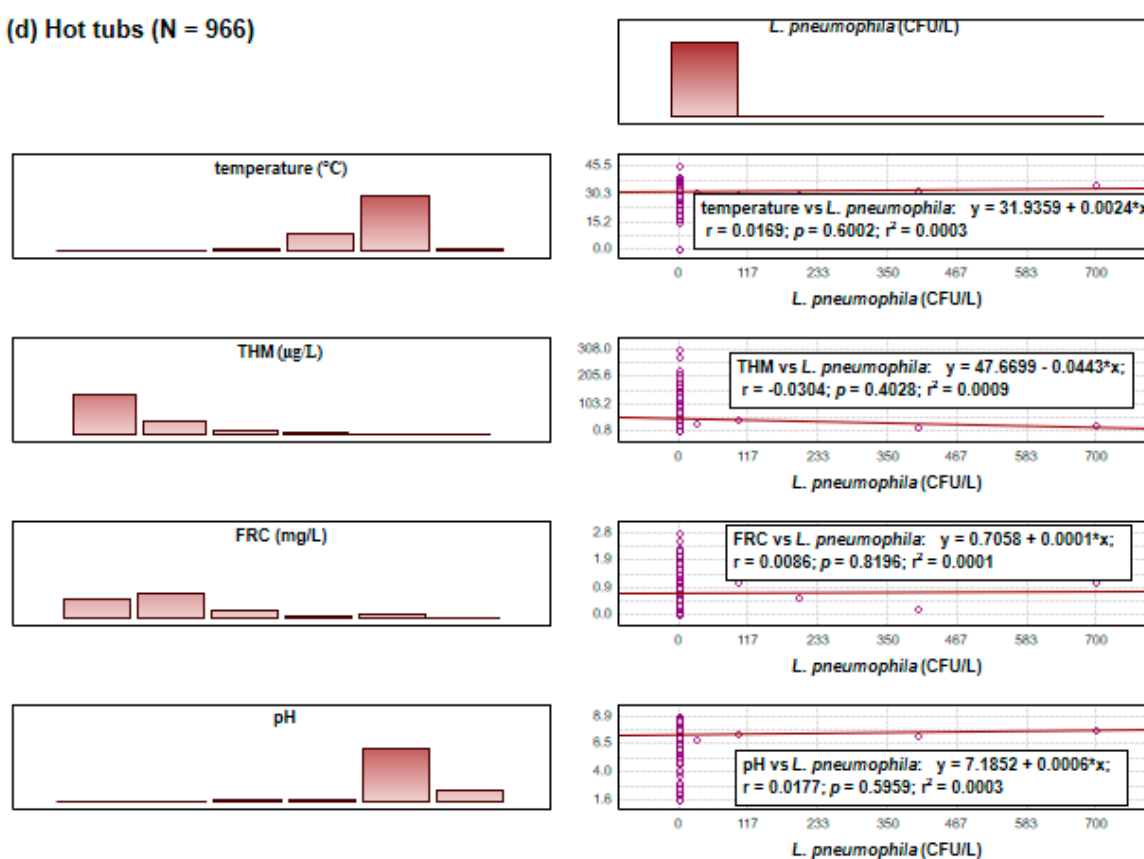
(b) Indoor swimming pools (N = 2354)



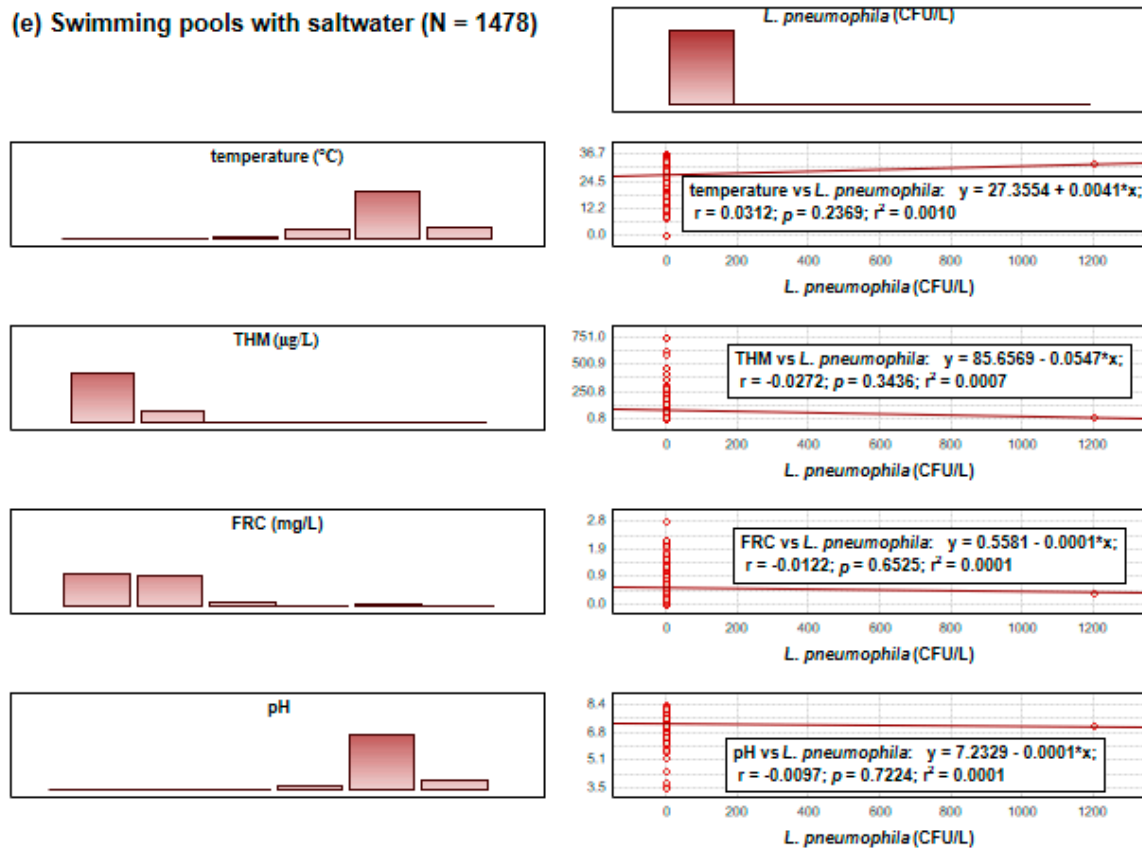
(c) Recreational swimming pools (N = 2833)



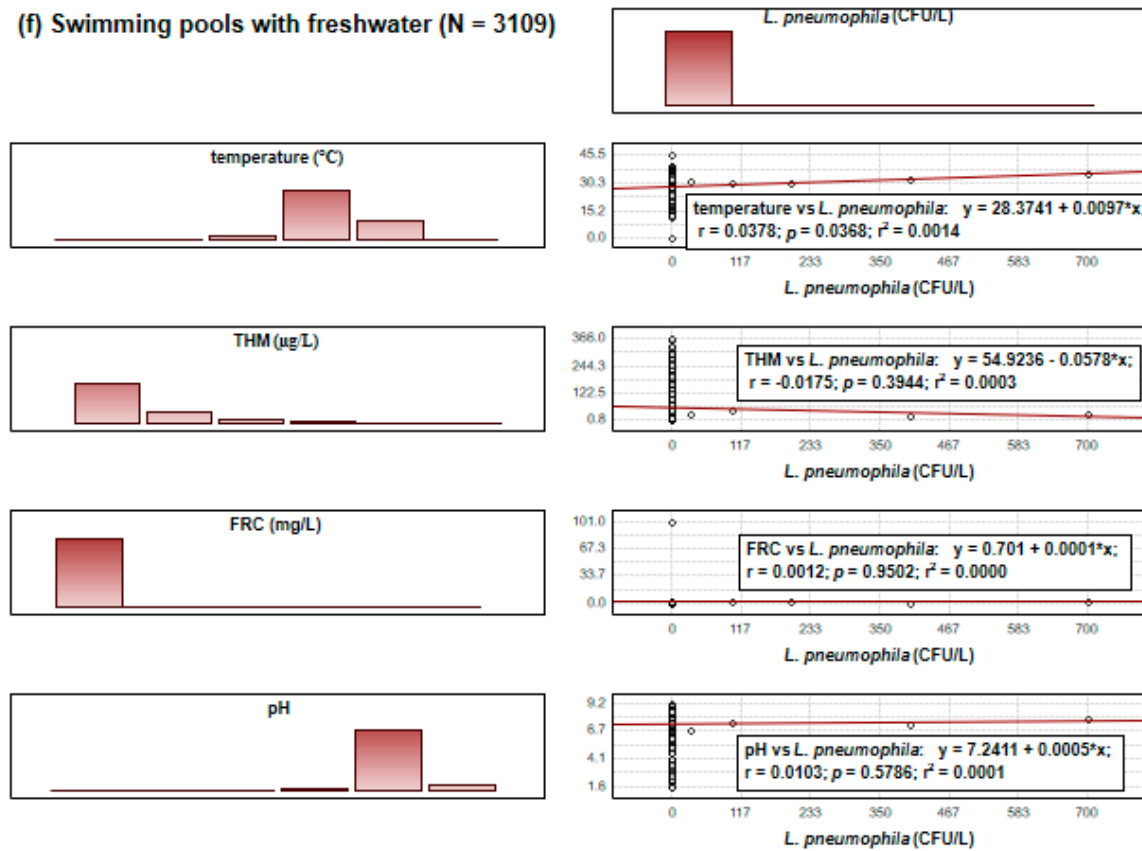
(d) Hot tubs (N = 966)



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

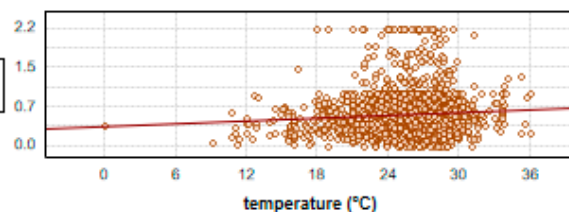
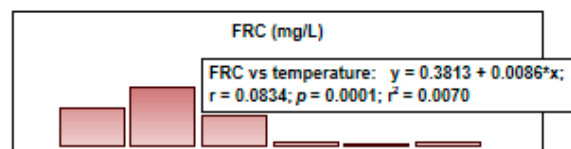
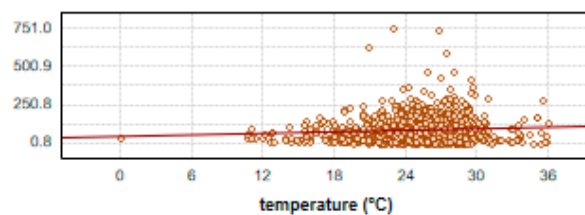
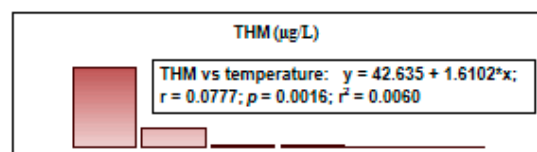
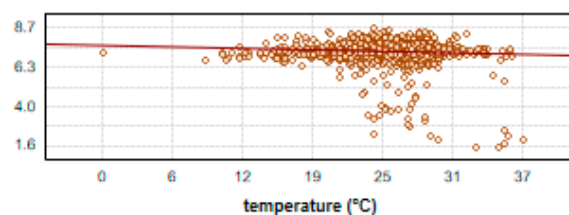
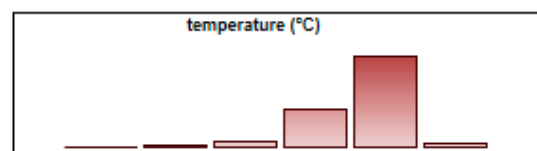
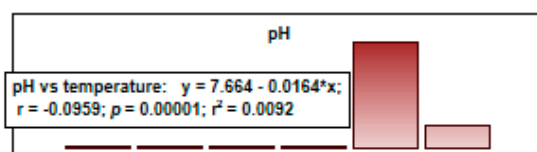


(f) Swimming pools with freshwater (N = 3109)

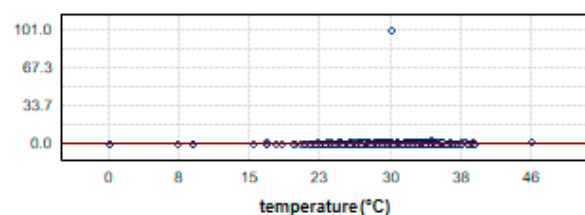
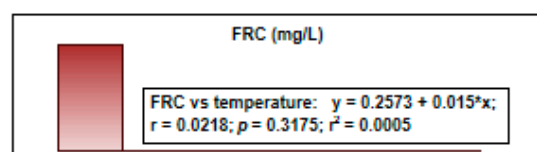
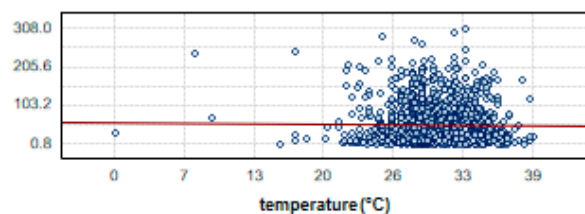
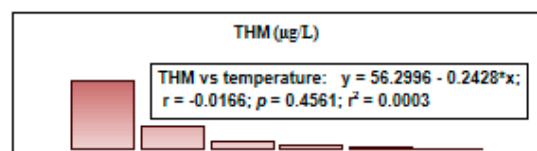
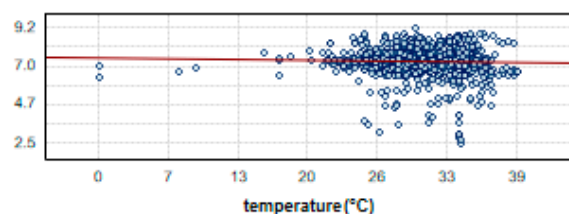
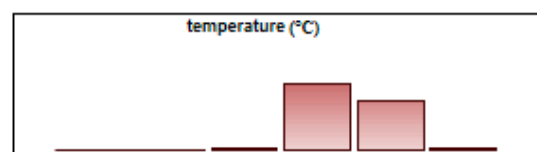
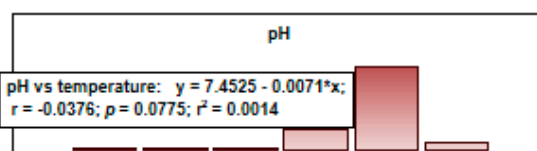


**Figure S1.** Correlations between *L. pneumophila* and physico-chemical characteristics (temperature, pH, THM, FRC) of waters in: a) outdoor, b) indoor, c) recreational swimming pools, d) hot tubs, e) swimming pools with salt water, and f) swimming pools with fresh water.

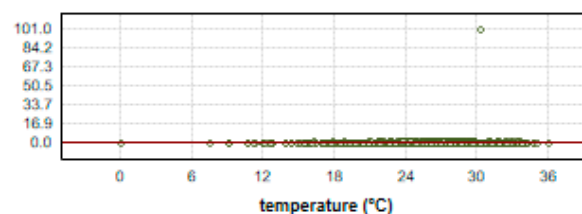
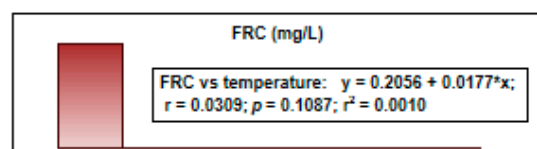
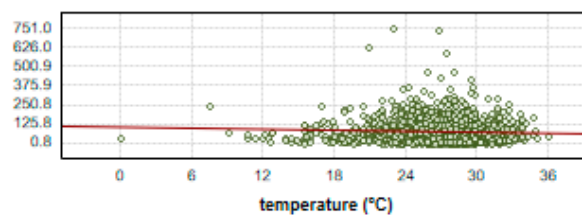
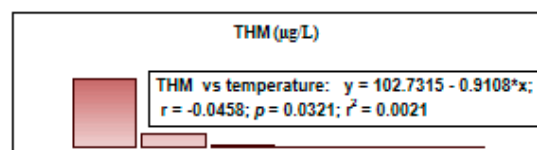
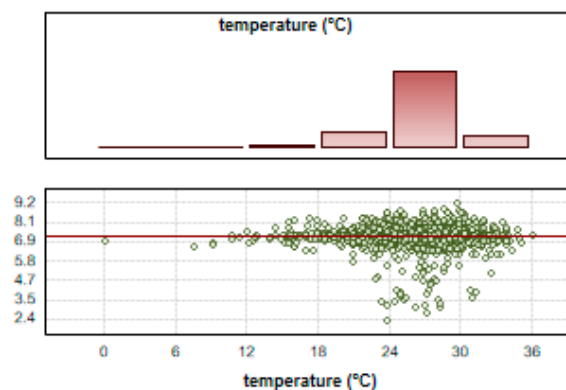
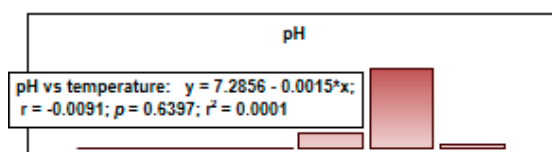
(a) Outdoor swimming pools (N = 2233)



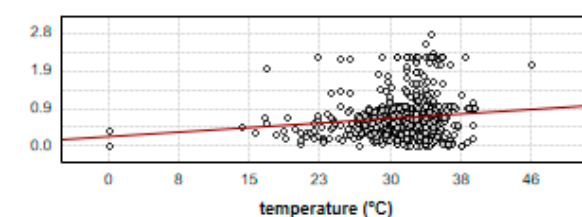
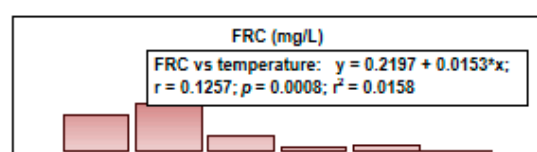
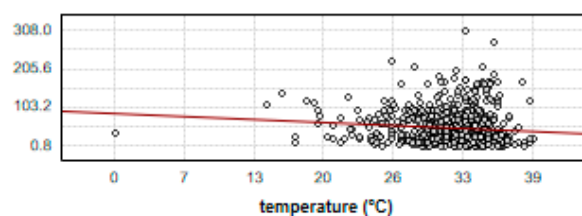
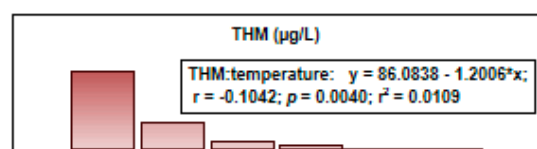
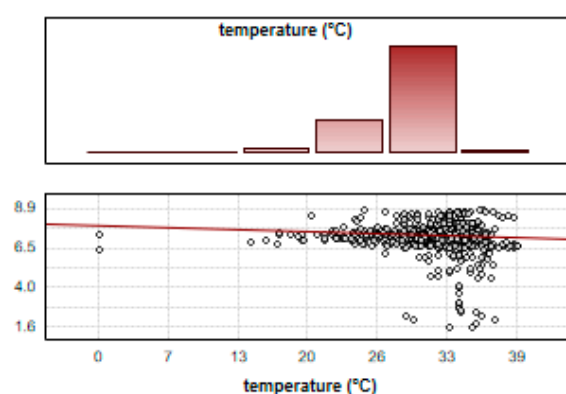
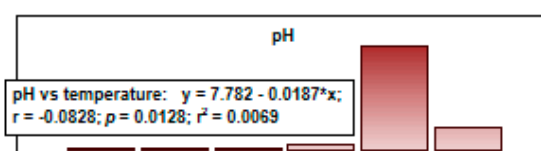
(b) Indoor swimming pools (N = 2354)



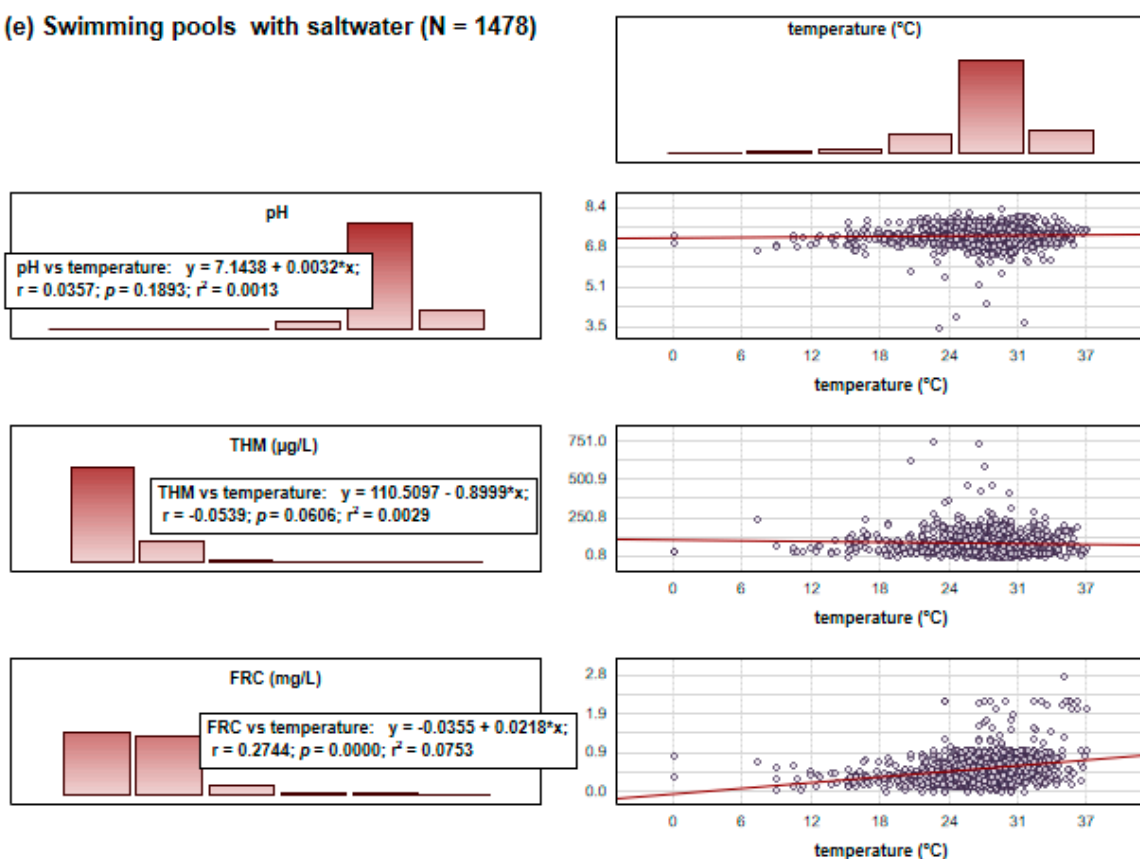
(c) Recreational swimming pools (N = 2833)



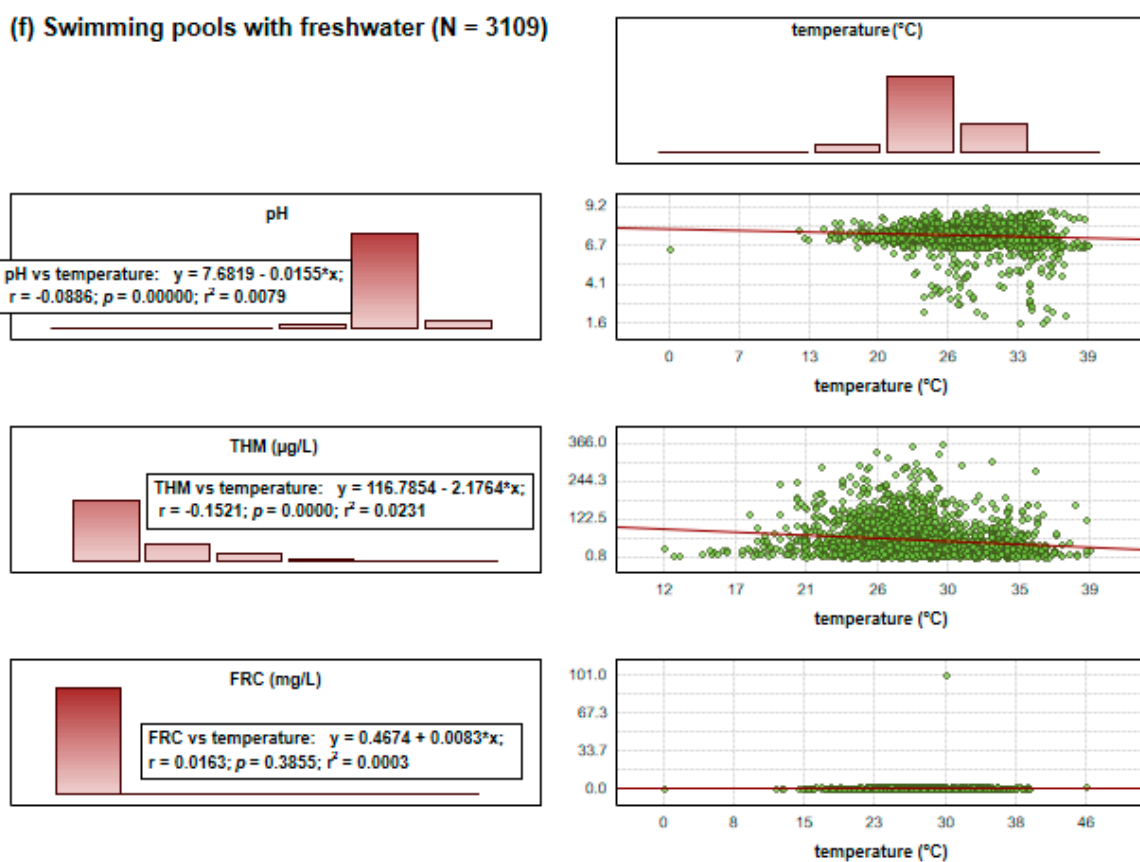
(d) Hot tubs (N = 966)



(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<sub>pool data</sub> = 4587; N<sub>outdoor</sub> = 2233; N<sub>indoor</sub> = 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 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<sub>pool data</sub> = 4587; N<sub>saltwater</sub> = 1478; N<sub>indoor</sub> = 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