Katherine: Correlation analysis

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This results is for the 1st data set

Spearman’s correlation assesses monotonic relationships (whether linear or not)

For ordinal variables, the magnitude of the difference between levels is not necessarily known

Bonferroni adjustment

Pairwise correlation

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Parameter1** | **Parameter2** | **rho** | **CI\_low** | **CI\_high** | **P\_value** | **n\_Obs** |
| logBET DT | logBET RT | 0.3473496 | 0.0111537 | 0.6129911 | 1.0000000 | 36 |
| logBET DT | logpercieved1 saltiness0.056M | -0.1917931 | -0.4971178 | 0.1557952 | 1.0000000 | 36 |
| logBET DT | logpercieved1saltness0.56M | 0.0174458 | -0.3219533 | 0.3528716 | 1.0000000 | 36 |
| logBET DT | flowrate\_meanUS | 0.2271656 | -0.1194999 | 0.5244592 | 1.0000000 | 36 |
| logBET DT | flowrate\_meanSS | 0.2939913 | -0.0483052 | 0.5744920 | 1.0000000 | 36 |
| logBET DT | sodiumconc\_meanUS | 0.3496065 | 0.0137221 | 0.6145922 | 1.0000000 | 36 |
| logBET DT | sodiumconc\_meanSS | 0.2974985 | -0.0444701 | 0.5770612 | 1.0000000 | 36 |
| logBET DT | proteinconc\_meanUS | 0.0112400 | -0.3275059 | 0.3474255 | 1.0000000 | 36 |
| logBET DT | proteinconc\_meanSS | -0.1164363 | -0.4367756 | 0.2301100 | 1.0000000 | 36 |
| logBET DT | dailysodiumIntake | -0.1352978 | -0.4521544 | 0.2118809 | 1.0000000 | 36 |
| logBET DT | dailycalorieintake | -0.0821451 | -0.4083280 | 0.2626399 | 1.0000000 | 36 |
| logBET DT | sodiumintakePerKca | -0.2191407 | -0.5183096 | 0.1278162 | 1.0000000 | 36 |
| logBET DT | sodiumintake ffq | -0.3940092 | -0.6456540 | -0.0651723 | 1.0000000 | 36 |
| logBET DT | saltadditionduringcooking | 0.0665717 | -0.2771591 | 0.3951959 | 1.0000000 | 36 |
| logBET DT | saltadditionduringeating | -0.1593921 | -0.4715295 | 0.1882377 | 1.0000000 | 36 |
| logBET DT | selfreported altintake | -0.0206367 | -0.3556630 | 0.3190893 | 1.0000000 | 36 |
| logBET RT | logpercieved1 saltiness0.056M | -0.0587093 | -0.3885145 | 0.2844301 | 1.0000000 | 36 |
| logBET RT | logpercieved1saltness0.56M | 0.0752546 | -0.2690833 | 0.4025342 | 1.0000000 | 36 |
| logBET RT | flowrate\_meanUS | 0.2339618 | -0.1124186 | 0.5296431 | 1.0000000 | 36 |
| logBET RT | flowrate\_meanSS | 0.2241865 | -0.1225928 | 0.5221799 | 1.0000000 | 36 |
| logBET RT | sodiumconc\_meanUS | 0.3296184 | -0.0088721 | 0.6003361 | 1.0000000 | 36 |
| logBET RT | sodiumconc\_meanSS | 0.2292998 | -0.1172800 | 0.5260895 | 1.0000000 | 36 |
| logBET RT | proteinconc\_meanUS | 0.0917119 | -0.2536427 | 0.4163287 | 1.0000000 | 36 |
| logBET RT | proteinconc\_meanSS | -0.2717453 | -0.5580658 | 0.0723982 | 1.0000000 | 36 |
| logBET RT | dailysodiumIntake | -0.4208650 | -0.6640453 | -0.0971628 | 1.0000000 | 36 |
| logBET RT | dailycalorieintake | -0.1876209 | -0.4938523 | 0.1600153 | 1.0000000 | 36 |
| logBET RT | sodiumintakePerKca | -0.3218611 | -0.5947567 | 0.0175487 | 1.0000000 | 36 |
| logBET RT | sodiumintake ffq | -0.0750746 | -0.4023826 | 0.2692511 | 1.0000000 | 36 |
| logBET RT | saltadditionduringcooking | 0.0752401 | -0.2690968 | 0.4025220 | 1.0000000 | 36 |
| logBET RT | saltadditionduringeating | -0.1022640 | -0.4250956 | 0.2436489 | 1.0000000 | 36 |
| logBET RT | selfreported altintake | -0.2735055 | -0.5593737 | 0.0705064 | 1.0000000 | 36 |
| logpercieved1 saltiness0.056M | logpercieved1saltness0.56M | 0.5425334 | 0.2509874 | 0.7438355 | 0.0856742 | 36 |
| logpercieved1 saltiness0.056M | flowrate\_meanUS | 0.0490505 | -0.2933086 | 0.3802590 | 1.0000000 | 36 |
| logpercieved1 saltiness0.056M | flowrate\_meanSS | 0.2311752 | -0.1153264 | 0.5275203 | 1.0000000 | 36 |
| logpercieved1 saltiness0.056M | sodiumconc\_meanUS | 0.0640968 | -0.2794521 | 0.3930965 | 1.0000000 | 36 |
| logpercieved1 saltiness0.056M | sodiumconc\_meanSS | 0.0014158 | -0.3362484 | 0.3387574 | 1.0000000 | 36 |
| logpercieved1 saltiness0.056M | proteinconc\_meanUS | 0.0358086 | -0.3053857 | 0.3688543 | 1.0000000 | 36 |
| logpercieved1 saltiness0.056M | proteinconc\_meanSS | -0.1654968 | -0.4763912 | 0.1821826 | 1.0000000 | 36 |
| logpercieved1 saltiness0.056M | dailysodiumIntake | -0.0091383 | -0.3455760 | 0.3293811 | 1.0000000 | 36 |
| logpercieved1 saltiness0.056M | dailycalorieintake | -0.2608919 | -0.5499696 | 0.0840087 | 1.0000000 | 36 |
| logpercieved1 saltiness0.056M | sodiumintakePerKca | 0.2034880 | -0.1438981 | 0.5062250 | 1.0000000 | 36 |
| logpercieved1 saltiness0.056M | sodiumintake ffq | 0.0876504 | -0.2574696 | 0.4129383 | 1.0000000 | 36 |
| logpercieved1 saltiness0.056M | saltadditionduringcooking | -0.3777044 | -0.6343439 | -0.0460743 | 1.0000000 | 36 |
| logpercieved1 saltiness0.056M | saltadditionduringeating | -0.2581201 | -0.5478931 | 0.0869590 | 1.0000000 | 36 |
| logpercieved1 saltiness0.056M | selfreported altintake | 0.0808658 | -0.2638386 | 0.4072543 | 1.0000000 | 36 |
| logpercieved1saltness0.56M | flowrate\_meanUS | -0.0226716 | -0.3574401 | 0.3172595 | 1.0000000 | 36 |
| logpercieved1saltness0.56M | flowrate\_meanSS | 0.0763732 | -0.2680393 | 0.4034766 | 1.0000000 | 36 |
| logpercieved1saltness0.56M | sodiumconc\_meanUS | 0.0909208 | -0.2543889 | 0.4156691 | 1.0000000 | 36 |
| logpercieved1saltness0.56M | sodiumconc\_meanSS | 0.0115905 | -0.3271930 | 0.3477337 | 1.0000000 | 36 |
| logpercieved1saltness0.56M | proteinconc\_meanUS | -0.0775873 | -0.4044986 | 0.2669054 | 1.0000000 | 36 |
| logpercieved1saltness0.56M | proteinconc\_meanSS | -0.1993557 | -0.5030147 | 0.1481134 | 1.0000000 | 36 |
| logpercieved1saltness0.56M | dailysodiumIntake | -0.1815841 | -0.4891122 | 0.1660989 | 1.0000000 | 36 |
| logpercieved1saltness0.56M | dailycalorieintake | -0.5211849 | -0.7302382 | -0.2228877 | 0.1518794 | 36 |
| logpercieved1saltness0.56M | sodiumintakePerKca | 0.1779781 | -0.1697202 | 0.4862721 | 1.0000000 | 36 |
| logpercieved1saltness0.56M | sodiumintake ffq | 0.1146169 | -0.2318556 | 0.4352821 | 1.0000000 | 36 |
| logpercieved1saltness0.56M | saltadditionduringcooking | -0.0238718 | -0.3584870 | 0.3161791 | 1.0000000 | 36 |
| logpercieved1saltness0.56M | saltadditionduringeating | 0.0099639 | -0.3286448 | 0.3463028 | 1.0000000 | 36 |
| logpercieved1saltness0.56M | selfreported altintake | -0.0047391 | -0.3416961 | 0.3332975 | 1.0000000 | 36 |
| flowrate\_meanUS | flowrate\_meanSS | 0.6767300 | 0.4396396 | 0.8256549 | 0.0007967 | 36 |
| flowrate\_meanUS | sodiumconc\_meanUS | 0.1332389 | -0.2138826 | 0.4504848 | 1.0000000 | 36 |
| flowrate\_meanUS | sodiumconc\_meanSS | 0.0825180 | -0.2622903 | 0.4086408 | 1.0000000 | 36 |
| flowrate\_meanUS | proteinconc\_meanUS | -0.3931977 | -0.6450937 | -0.0642160 | 1.0000000 | 36 |
| flowrate\_meanUS | proteinconc\_meanSS | -0.3496715 | -0.6146383 | -0.0137962 | 1.0000000 | 36 |
| flowrate\_meanUS | dailysodiumIntake | -0.0075953 | -0.3442164 | 0.3307561 | 1.0000000 | 36 |
| flowrate\_meanUS | dailycalorieintake | -0.1530639 | -0.4664697 | 0.1944868 | 1.0000000 | 36 |
| flowrate\_meanUS | sodiumintakePerKca | 0.0381050 | -0.3032991 | 0.3708393 | 1.0000000 | 36 |
| flowrate\_meanUS | sodiumintake ffq | -0.1750772 | -0.4839826 | 0.1726266 | 1.0000000 | 36 |
| flowrate\_meanUS | saltadditionduringcooking | -0.1066878 | -0.4287529 | 0.2394373 | 1.0000000 | 36 |
| flowrate\_meanUS | saltadditionduringeating | -0.1196526 | -0.4394113 | 0.2270187 | 1.0000000 | 36 |
| flowrate\_meanUS | selfreported altintake | 0.1508253 | -0.1966906 | 0.4646750 | 1.0000000 | 36 |
| flowrate\_meanSS | sodiumconc\_meanUS | 0.1112041 | -0.2351241 | 0.4324760 | 1.0000000 | 36 |
| flowrate\_meanSS | sodiumconc\_meanSS | 0.3231868 | -0.0160695 | 0.5957120 | 1.0000000 | 36 |
| flowrate\_meanSS | proteinconc\_meanUS | -0.1127069 | -0.4337125 | 0.2336858 | 1.0000000 | 36 |
| flowrate\_meanSS | proteinconc\_meanSS | -0.2419989 | -0.5357452 | 0.1039988 | 1.0000000 | 36 |
| flowrate\_meanSS | dailysodiumIntake | -0.1612716 | -0.4730283 | 0.1863763 | 1.0000000 | 36 |
| flowrate\_meanSS | dailycalorieintake | -0.0432460 | -0.3752722 | 0.2986160 | 1.0000000 | 36 |
| flowrate\_meanSS | sodiumintakePerKca | -0.1893301 | -0.4951911 | 0.1582880 | 1.0000000 | 36 |
| flowrate\_meanSS | sodiumintake ffq | -0.1807066 | -0.4884217 | 0.1669809 | 1.0000000 | 36 |
| flowrate\_meanSS | saltadditionduringcooking | -0.2080634 | -0.5097698 | 0.1392162 | 1.0000000 | 36 |
| flowrate\_meanSS | saltadditionduringeating | -0.2884561 | -0.5704258 | 0.0543374 | 1.0000000 | 36 |
| flowrate\_meanSS | selfreported altintake | -0.1135325 | -0.4343911 | 0.2328950 | 1.0000000 | 36 |
| sodiumconc\_meanUS | sodiumconc\_meanSS | 0.6288288 | 0.3698110 | 0.7971514 | 0.0054422 | 36 |
| sodiumconc\_meanUS | proteinconc\_meanUS | -0.0270479 | -0.3612536 | 0.3133158 | 1.0000000 | 36 |
| sodiumconc\_meanUS | proteinconc\_meanSS | -0.3980683 | -0.6484526 | -0.0699645 | 1.0000000 | 36 |
| sodiumconc\_meanUS | dailysodiumIntake | -0.2954955 | -0.5755945 | 0.0466616 | 1.0000000 | 36 |
| sodiumconc\_meanUS | dailycalorieintake | -0.1032175 | -0.4258848 | 0.2427422 | 1.0000000 | 36 |
| sodiumconc\_meanUS | sodiumintakePerKca | -0.2787645 | -0.5632730 | 0.0648394 | 1.0000000 | 36 |
| sodiumconc\_meanUS | sodiumintake ffq | -0.2118404 | -0.5126883 | 0.1353394 | 1.0000000 | 36 |
| sodiumconc\_meanUS | saltadditionduringcooking | -0.1581180 | -0.4705124 | 0.1894982 | 1.0000000 | 36 |
| sodiumconc\_meanUS | saltadditionduringeating | -0.2102284 | -0.5114435 | 0.1369954 | 1.0000000 | 36 |
| sodiumconc\_meanUS | selfreported altintake | -0.1252259 | -0.4439656 | 0.2216453 | 1.0000000 | 36 |
| sodiumconc\_meanSS | proteinconc\_meanUS | -0.0814014 | -0.4077039 | 0.2633369 | 1.0000000 | 36 |
| sodiumconc\_meanSS | proteinconc\_meanSS | -0.3385706 | -0.6067424 | -0.0012047 | 1.0000000 | 36 |
| sodiumconc\_meanSS | dailysodiumIntake | -0.2851995 | -0.5680271 | 0.0578748 | 1.0000000 | 36 |
| sodiumconc\_meanSS | dailycalorieintake | -0.1619048 | -0.4735328 | 0.1857487 | 1.0000000 | 36 |
| sodiumconc\_meanSS | sodiumintakePerKca | -0.2187902 | -0.5180404 | 0.1281783 | 1.0000000 | 36 |
| sodiumconc\_meanSS | sodiumintake ffq | -0.2383526 | -0.5329806 | 0.1078248 | 1.0000000 | 36 |
| sodiumconc\_meanSS | saltadditionduringcooking | 0.0732336 | -0.2709673 | 0.4008300 | 1.0000000 | 36 |
| sodiumconc\_meanSS | saltadditionduringeating | -0.2363420 | -0.5314535 | 0.1099302 | 1.0000000 | 36 |
| sodiumconc\_meanSS | selfreported altintake | 0.0410919 | -0.3005802 | 0.3734166 | 1.0000000 | 36 |
| proteinconc\_meanUS | proteinconc\_meanSS | 0.6882330 | 0.4568462 | 0.8323885 | 0.0004761 | 36 |
| proteinconc\_meanUS | dailysodiumIntake | -0.3678517 | -0.6274558 | -0.0346501 | 1.0000000 | 36 |
| proteinconc\_meanUS | dailycalorieintake | 0.0919629 | -0.2534057 | 0.4165380 | 1.0000000 | 36 |
| proteinconc\_meanUS | sodiumintakePerKca | -0.3459558 | -0.6120012 | -0.0095697 | 1.0000000 | 36 |
| proteinconc\_meanUS | sodiumintake ffq | -0.1862443 | -0.4927730 | 0.1614049 | 1.0000000 | 36 |
| proteinconc\_meanUS | saltadditionduringcooking | -0.1614328 | -0.4731568 | 0.1862166 | 1.0000000 | 36 |
| proteinconc\_meanUS | saltadditionduringeating | -0.0793255 | -0.4059604 | 0.2652802 | 1.0000000 | 36 |
| proteinconc\_meanUS | selfreported altintake | -0.2294563 | -0.5262090 | 0.1171170 | 1.0000000 | 36 |
| proteinconc\_meanSS | dailysodiumIntake | -0.1380554 | -0.4543871 | 0.2091954 | 1.0000000 | 36 |
| proteinconc\_meanSS | dailycalorieintake | 0.0558918 | -0.2870260 | 0.3861118 | 1.0000000 | 36 |
| proteinconc\_meanSS | sodiumintakePerKca | -0.0811333 | -0.4074789 | 0.2635880 | 1.0000000 | 36 |
| proteinconc\_meanSS | sodiumintake ffq | 0.0444301 | -0.2975350 | 0.3762910 | 1.0000000 | 36 |
| proteinconc\_meanSS | saltadditionduringcooking | -0.1134603 | -0.4343318 | 0.2329642 | 1.0000000 | 36 |
| proteinconc\_meanSS | saltadditionduringeating | 0.0969996 | -0.2486439 | 0.4207294 | 1.0000000 | 36 |
| proteinconc\_meanSS | selfreported altintake | -0.0103144 | -0.3466113 | 0.3283320 | 1.0000000 | 36 |
| dailysodiumIntake | dailycalorieintake | 0.4172458 | 0.0928123 | 0.6615838 | 1.0000000 | 36 |
| dailysodiumIntake | sodiumintakePerKca | 0.6836551 | 0.4499776 | 0.8297138 | 0.0005860 | 36 |
| dailysodiumIntake | sodiumintake ffq | 0.1482625 | -0.1992092 | 0.4626171 | 1.0000000 | 36 |
| dailysodiumIntake | saltadditionduringcooking | 0.2013924 | -0.1460374 | 0.5045980 | 1.0000000 | 36 |
| dailysodiumIntake | saltadditionduringeating | 0.2916028 | -0.0509112 | 0.5727391 | 1.0000000 | 36 |
| dailysodiumIntake | selfreported altintake | 0.3674593 | 0.0341969 | 0.6271806 | 1.0000000 | 36 |
| dailycalorieintake | sodiumintakePerKca | -0.2921493 | -0.5731404 | 0.0503154 | 1.0000000 | 36 |
| dailycalorieintake | sodiumintake ffq | 0.0658945 | -0.2777869 | 0.3946217 | 1.0000000 | 36 |
| dailycalorieintake | saltadditionduringcooking | 0.1384226 | -0.2088374 | 0.4546841 | 1.0000000 | 36 |
| dailycalorieintake | saltadditionduringeating | 0.2333086 | -0.1131007 | 0.5291459 | 1.0000000 | 36 |
| dailycalorieintake | selfreported altintake | -0.0332914 | -0.3666750 | 0.3076690 | 1.0000000 | 36 |
| sodiumintakePerKca | sodiumintake ffq | 0.1822394 | -0.1654397 | 0.4896276 | 1.0000000 | 36 |
| sodiumintakePerKca | saltadditionduringcooking | 0.0718466 | -0.2722588 | 0.3996590 | 1.0000000 | 36 |
| sodiumintakePerKca | saltadditionduringeating | 0.0879688 | -0.2571700 | 0.4132044 | 1.0000000 | 36 |
| sodiumintakePerKca | selfreported altintake | 0.3343072 | -0.0036028 | 0.6036958 | 1.0000000 | 36 |
| sodiumintake ffq | saltadditionduringcooking | 0.1196981 | -0.2269749 | 0.4394485 | 1.0000000 | 36 |
| sodiumintake ffq | saltadditionduringeating | 0.3616350 | 0.0274862 | 0.6230886 | 1.0000000 | 36 |
| sodiumintake ffq | selfreported altintake | -0.1207685 | -0.4403245 | 0.2259445 | 1.0000000 | 36 |
| saltadditionduringcooking | saltadditionduringeating | 0.5157361 | 0.2157944 | 0.7267411 | 0.1747421 | 36 |
| saltadditionduringcooking | selfreported altintake | 0.1725603 | -0.1751435 | 0.4819927 | 1.0000000 | 36 |
| saltadditionduringeating | selfreported altintake | 0.2478039 | -0.0978863 | 0.5401335 | 1.0000000 | 36 |

Statistically significant Pairwise correlation

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameter1 | Parameter2 | rho | CI\_low | CI\_high | P\_value | n\_Obs |
| flowrate\_meanUS | flowrate\_meanSS | 0.6767300 | 0.4396396 | 0.8256549 | 0.0007967 | 36 |
| sodiumconc\_meanUS | sodiumconc\_meanSS | 0.6288288 | 0.3698110 | 0.7971514 | 0.0054422 | 36 |
| proteinconc\_meanUS | proteinconc\_meanSS | 0.6882330 | 0.4568462 | 0.8323885 | 0.0004761 | 36 |
| dailysodiumIntake | sodiumintakePerKca | 0.6836551 | 0.4499776 | 0.8297138 | 0.0005860 | 36 |