

Alcohol consumption in Estonia and Finland: Finbalt survey 1994-2006

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Study year	Estonia		
	n	Mean (SD) g/week	Median g/week
1994	362	128 (147)	79
1996	363	112 (110)	78
1998	329	123 (155)	80
2000	329	147 (185)	100

Changes in Resting Neural Connectivity during Propofol Sedation

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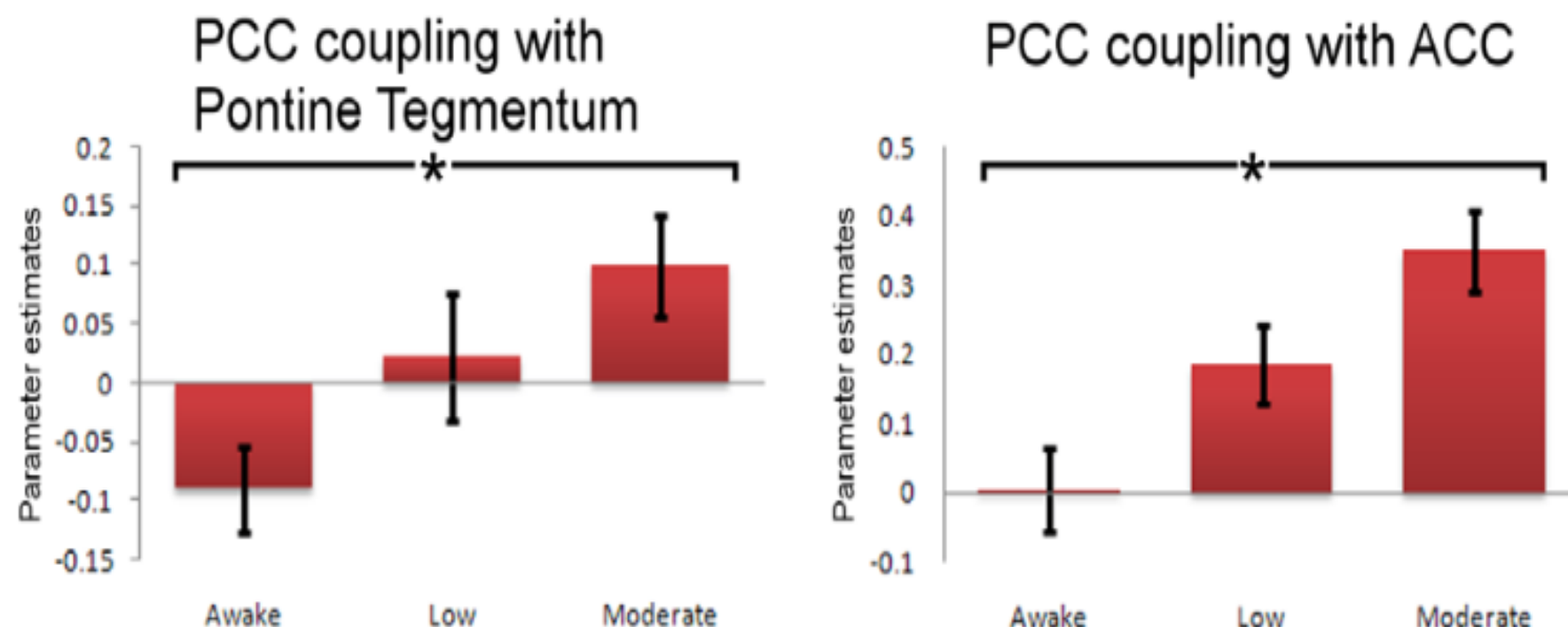
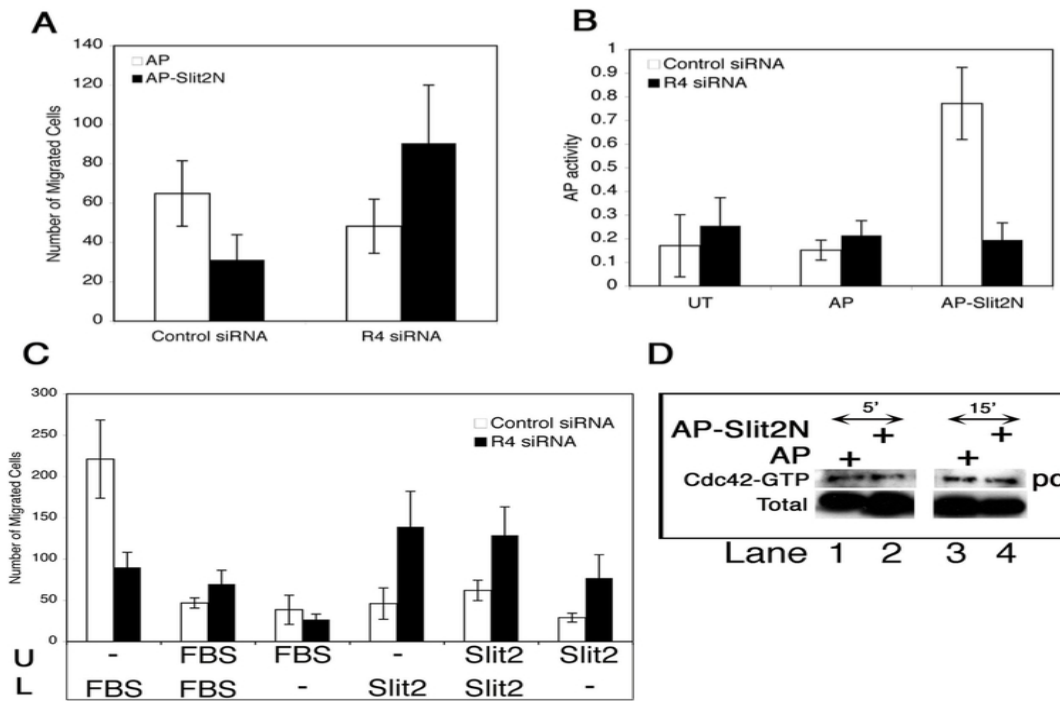


Figure 2. Significant PCC connectivity for Moderate>Awake sedation shown superimposed on brain image. * in the plots denotes connectivity that survived a random field cluster threshold of $p \leq 0.05$ uncorrected). Error bars show standard error. Talairach and Tournoux x coordinates shown underneath indicate strength of connectivity (t score).
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Silencing of directional migration in *roundabout4* knockdown endothelial cells

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robo4 siRNA transfected cells to Serum or AP-Slit2N in either upper (U), lower (L) or both chambers as indicated. Error bars in **A** (n = 3), and **B** (n = 3) represent SD while in **C** represent SEM (n = 4). **D** shows pulldown analysis of Cdc42-GTP levels in AP and AP-Slit2N (25 ng/ml) treated endothelial cell lysates for 5 and 15 minute respectively. + indicate addition of the reagent

RESEARCH

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t-tests, non-parametric tests, and large studies—a paradox of statistical practice?

Morten W Fagerland

Results: The WMW test produces, on average, smaller p -values than the t-test. This discrepancy increases with increasing sample size, skewness, and difference in spread. For heavily skewed data, the proportion of $p < 0.05$ with the WMW test can be greater than 90% if the standard deviations differ by 10% and the number of observations is 1000 in each group. The high rejection rates of the WMW test should be interpreted as the power to detect that the probability that a random sample from one of the distributions is less than a random sample from the other distribution is greater than 50%.

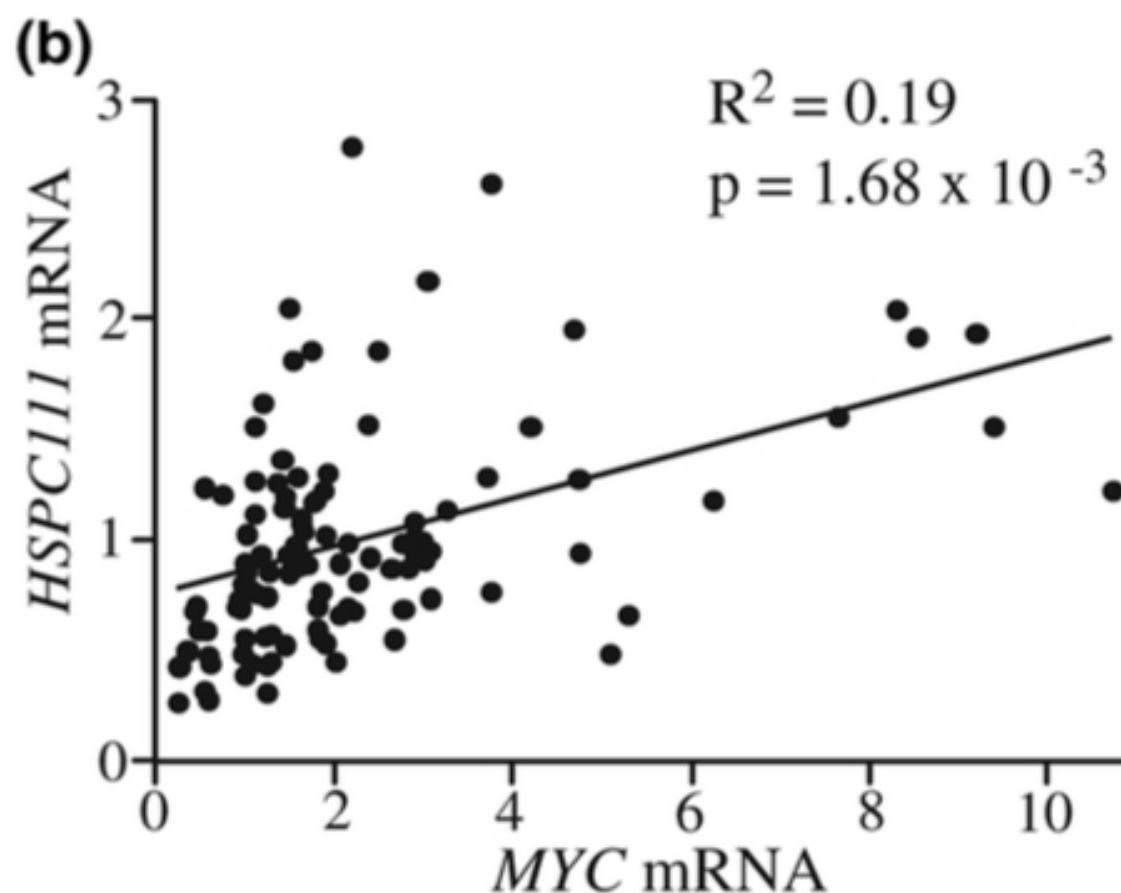
Conclusions: Non-parametric tests are most useful for small studies. Using non-parametric tests in large studies may provide answers to the wrong question, thus confusing readers. For studies with a large sample size, t-tests and their corresponding confidence intervals can and should be used even for heavily skewed data.

Research article

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The estrogen and c-Myc target gene *HSPC111* is over-expressed in breast cancer and associated with poor patient outcome

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Original contribution

Clinicopathologic significance of mitotic arrest defective protein 2 overexpression in hepatocellular carcinoma ☆, ☆ ☆

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Man-Ping Sun^a, Yu-Jia Wangⁱ

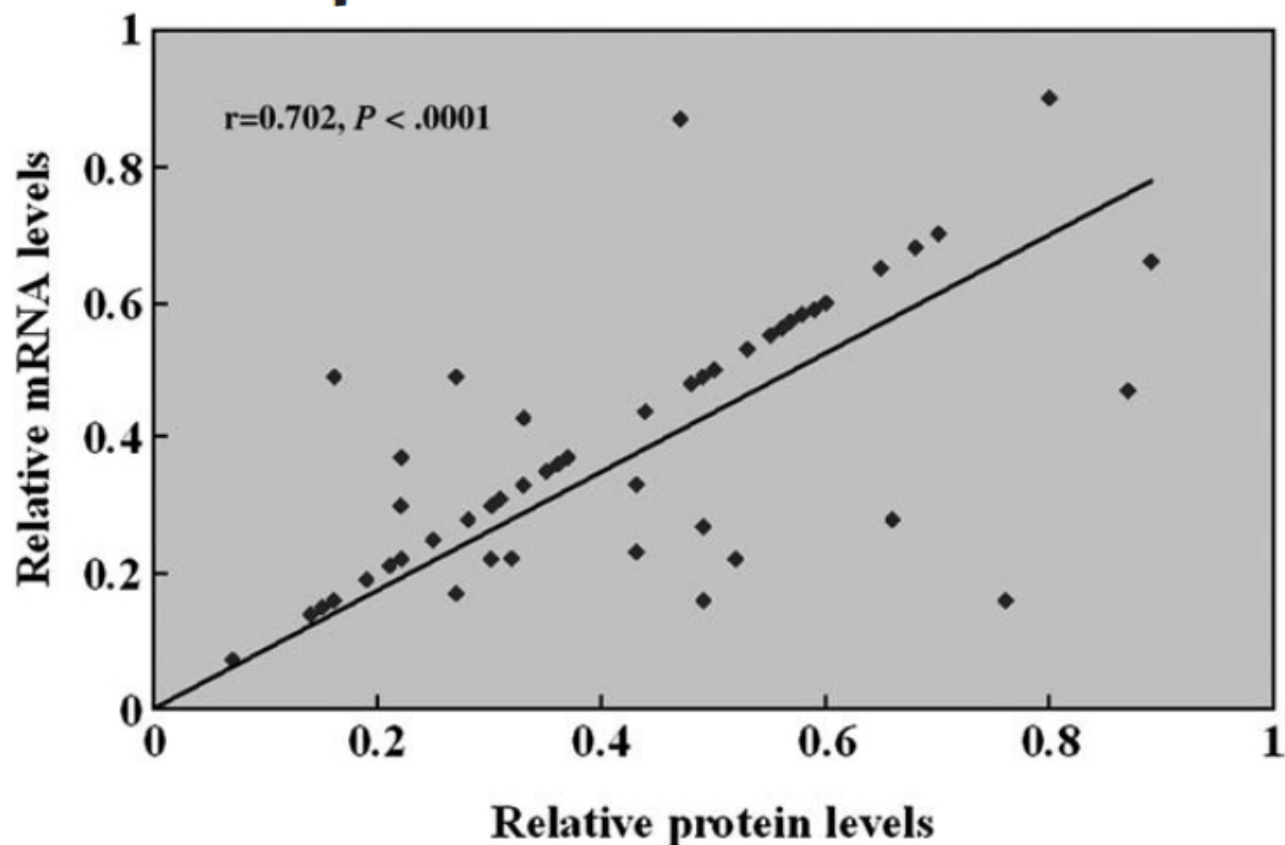


Fig. 3 Relationship between relative mRNA and protein expression of MAD2 in hepatocellular carcinoma.

Research Article

Epigenetic Changes in Response to Tai Chi Practice: A Pilot Investigation of DNA Methylation Marks

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Lara M. Williamson,¹ and K. H. Andy Choo^{1,6}

