

Paul Funk et al. Wireless high-resolution surface facial electromyography analysis with adhesive electrode array foils for discrimination of standardized facial expressions in healthy adults: A prospective observational study

Legends

Supplementary Figure S1. Overview of the standardized facial movements (page 2)

Supplementary Figures S2-12. Average sEMG activation of all subjects of the different facial electrodes (channels) shown for each exercise separately (pages 3-13).

The upper graph always shows meant amplitude values of the sEMG (rms values in μV). The lower graph always shows relative values normalized to the maximum (separately per run). Statistically significant differences between runs are symbolized with dots (R1 vs. R2), rectangles (R1 vs. R3), and triangles (R2 vs. R3).

Abbreviations for the 11 exercises in sequence of presentation:

R	at rest
WF	wrinkling of the forehead
CEN	closing the eyes normally
CEF	closing the eyes forcefully
WN	wrinkling of the nose
CMS	closed mouth smiling
OMS	open mouth smiling
LP	lip puckering
BC	blowing-out the cheeks
S	snarling
DLL	depressing lower lips

The standardized exercises



Face at rest
(R)



Wrinkling of the forehead
(WF)



Closing the eyes normally
(CEN)



closing the eyes forcefully
(CEF)



Wrinkling of the nose
(WN)



Closed mouth smiling
(CMS)



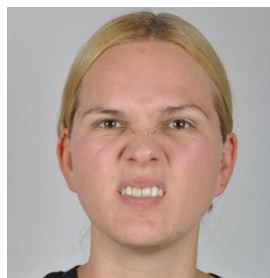
Open mouth smiling
(OMS)



Lip puckering
(LP)



Blowing-out the cheeks
(BC)

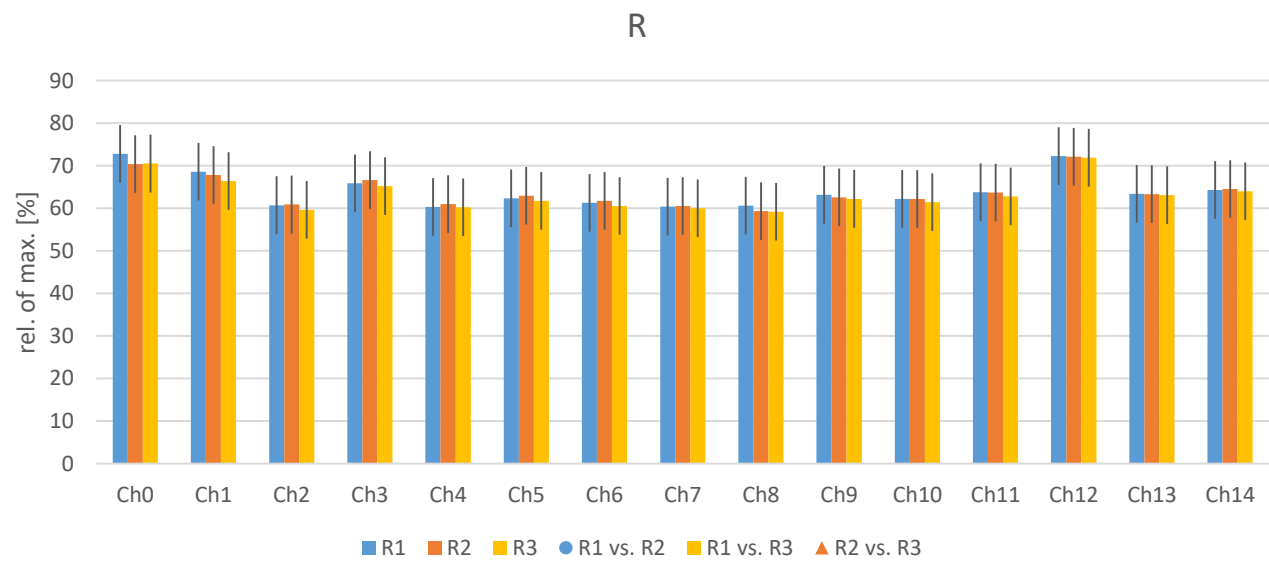
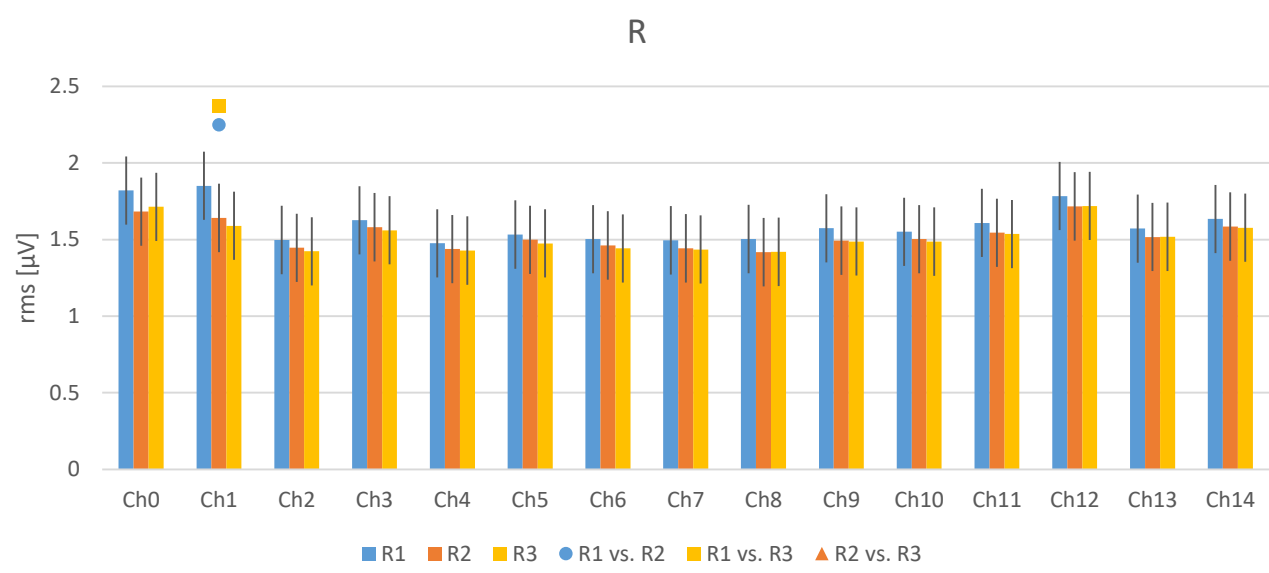


Snarling
(S)



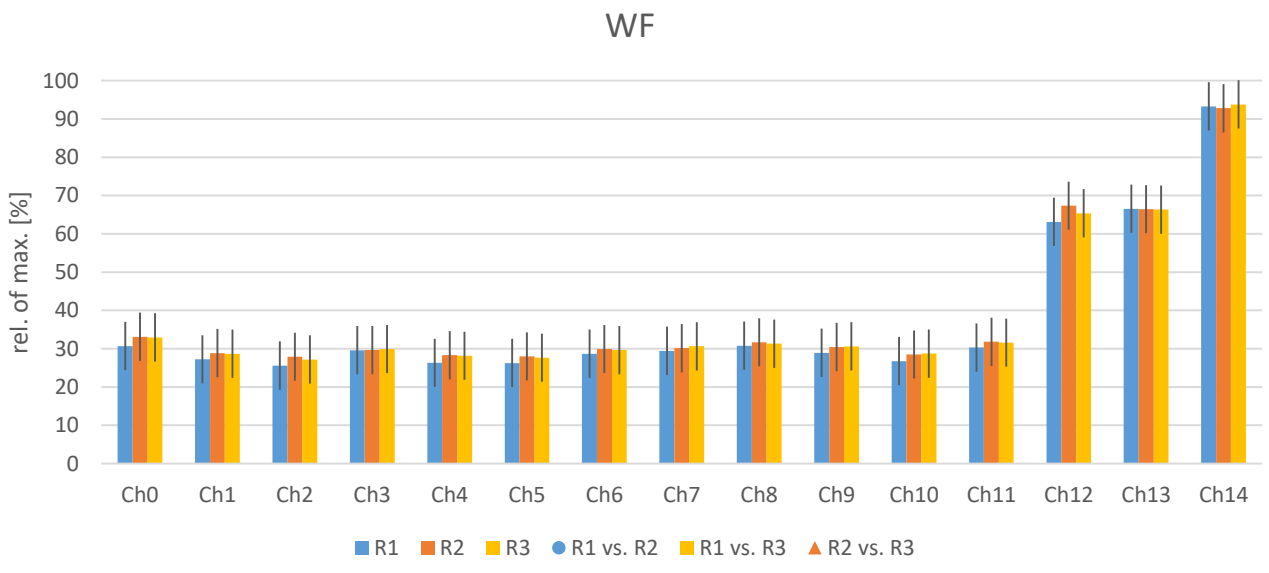
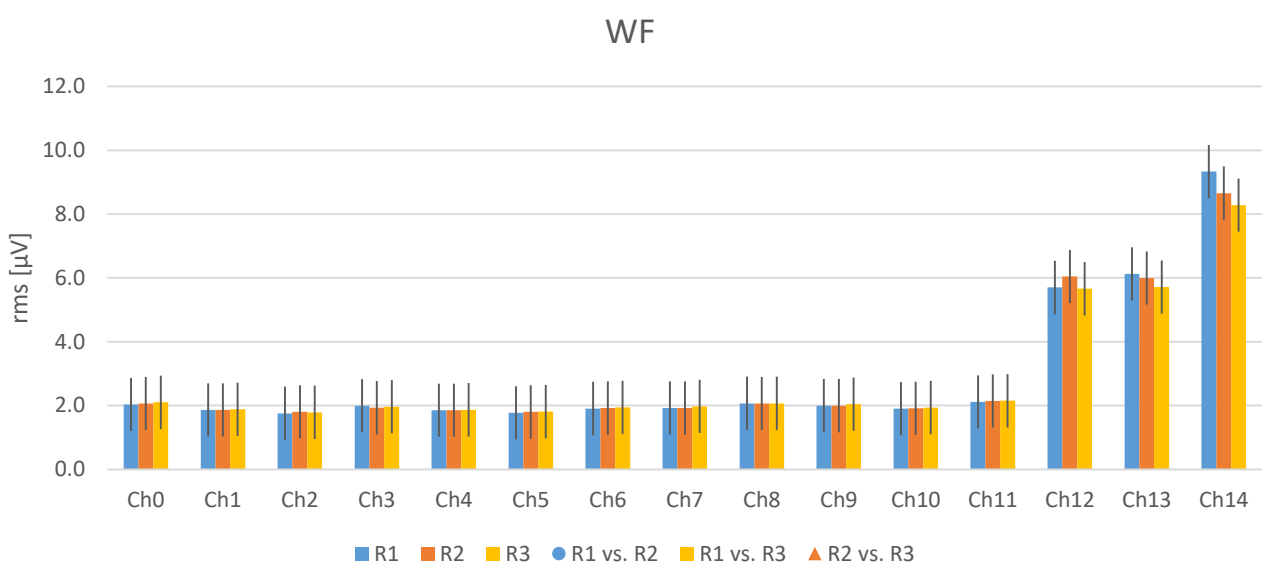
Depressing lower lips
(DLL)

Exercise At rest (R)



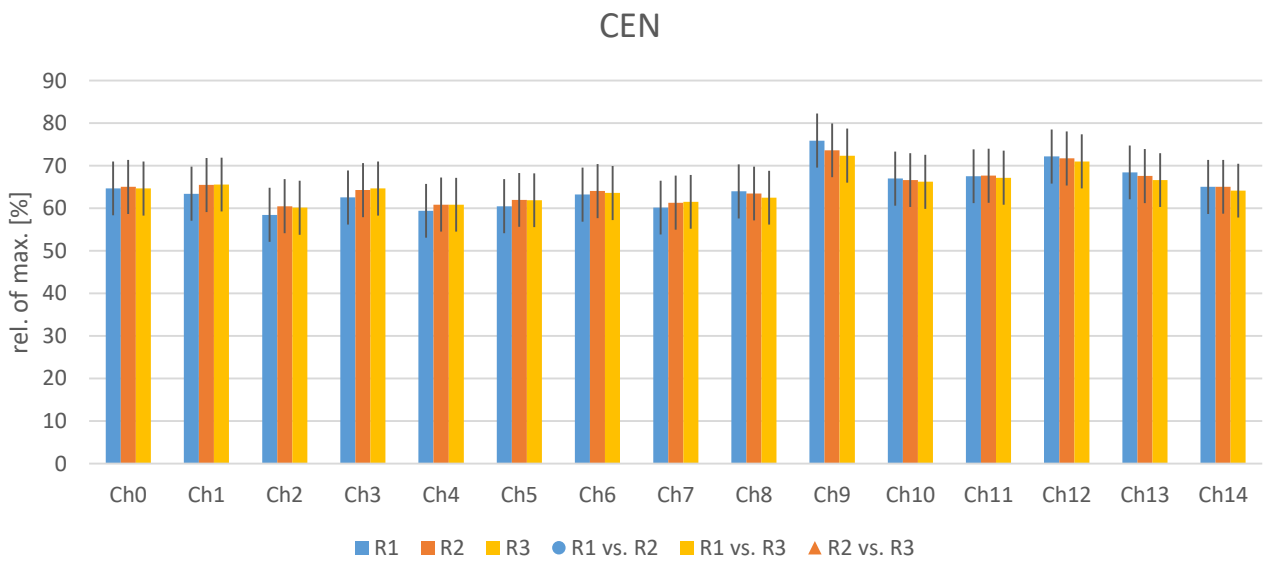
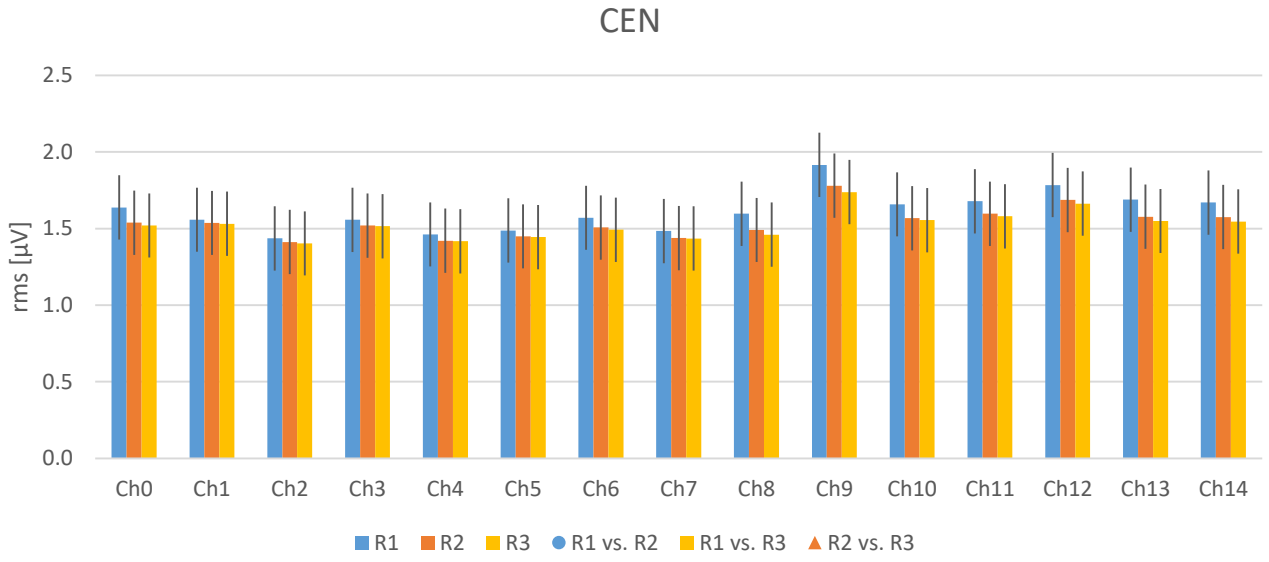
Exercise

Wrinkling of the forehead (WF)



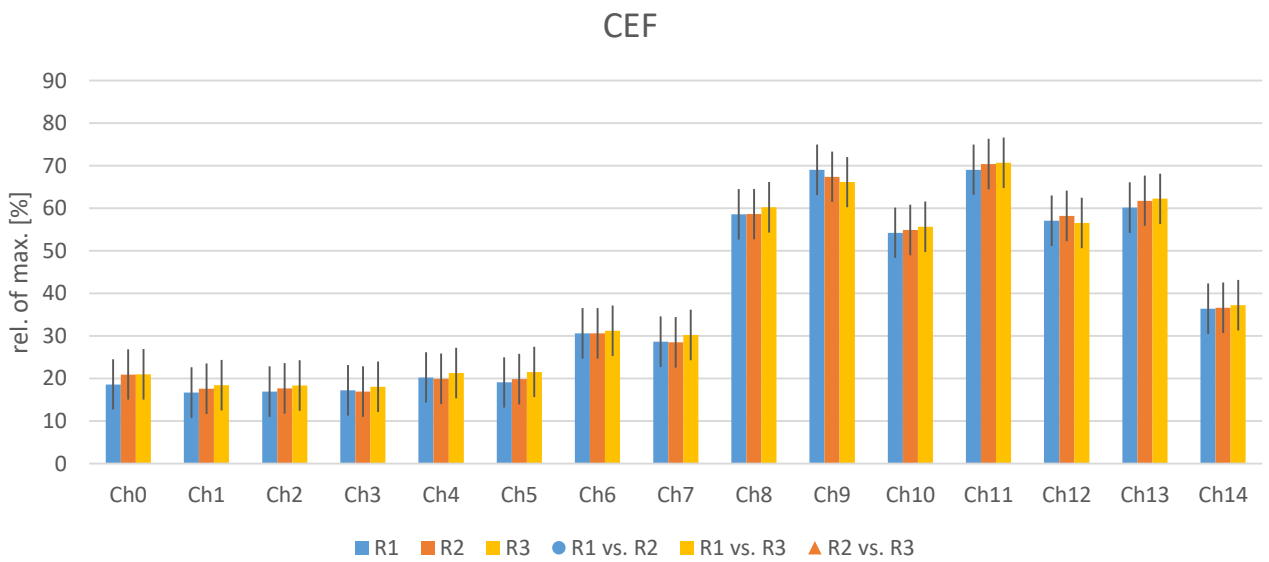
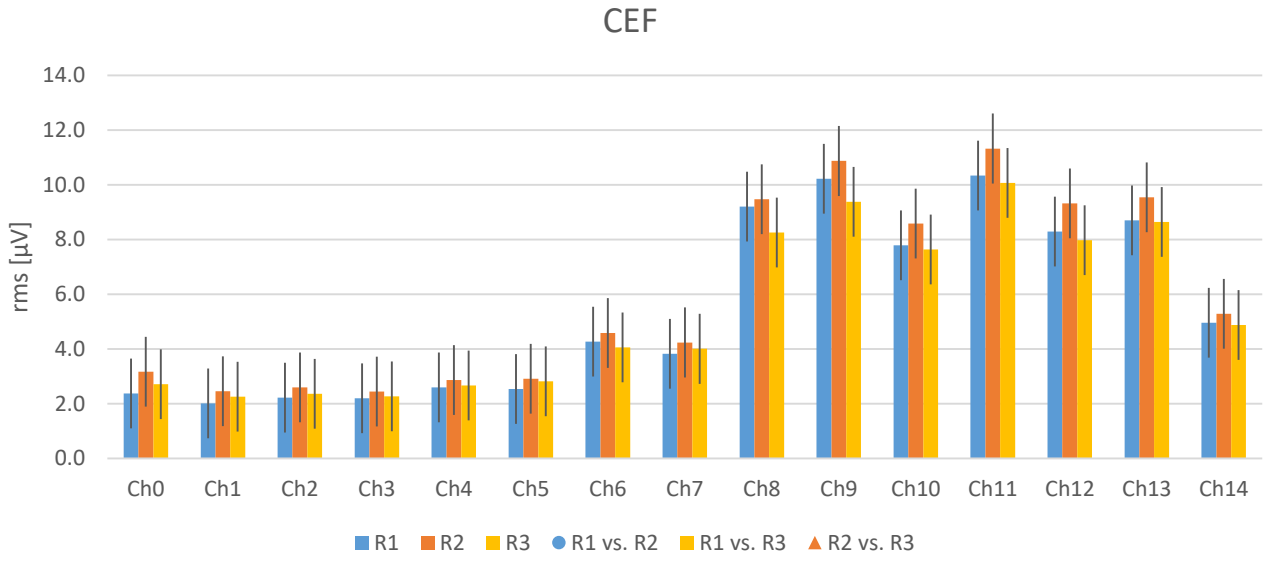
Exercise

Closing the eyes normally (CEN)



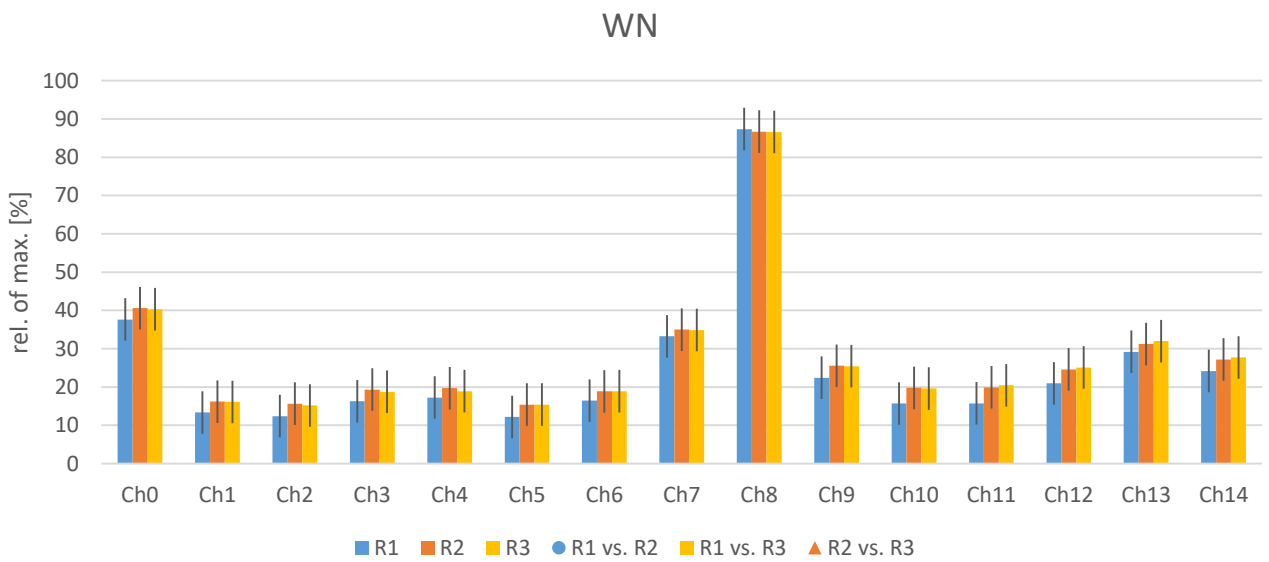
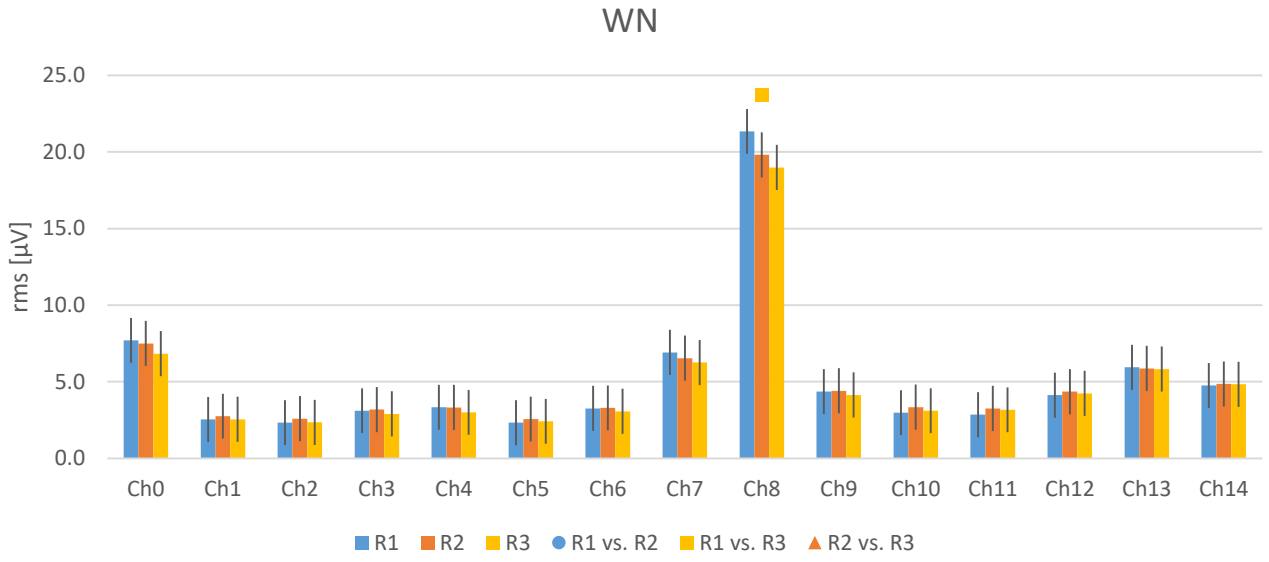
Exercise

Closing the eyes forcefully (CEF)



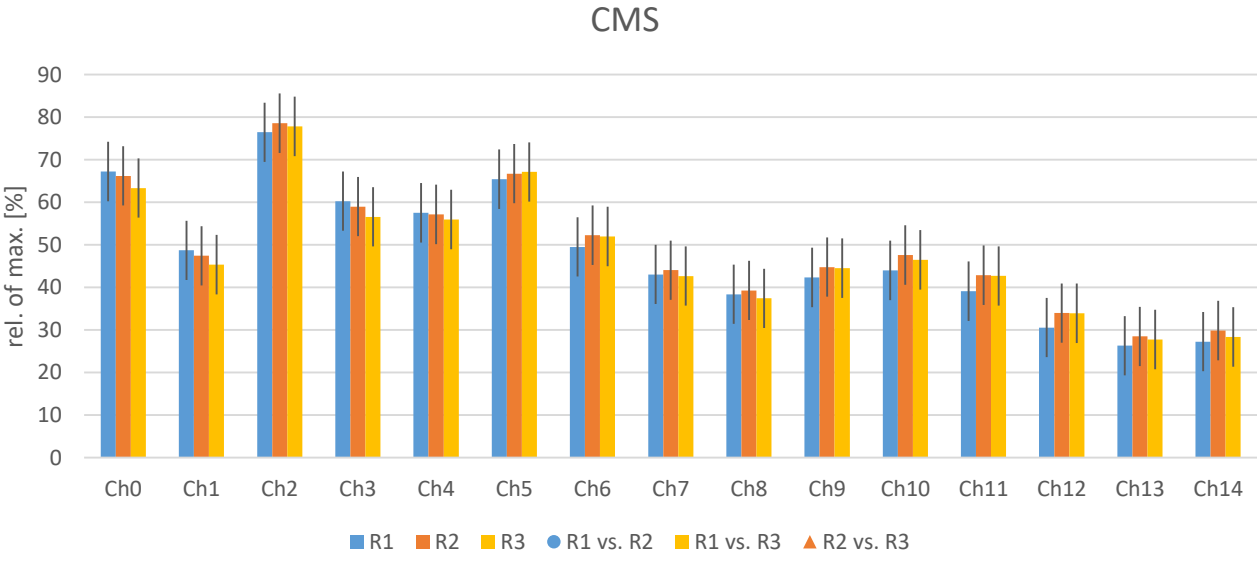
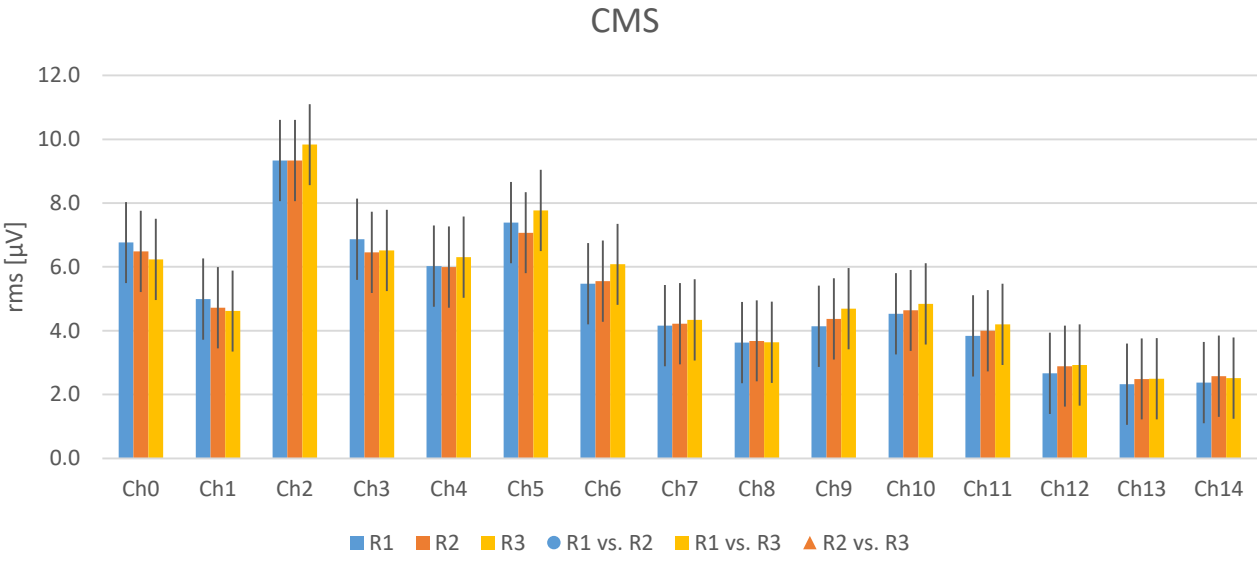
Exercise

Wrinkling of the nose (WN)



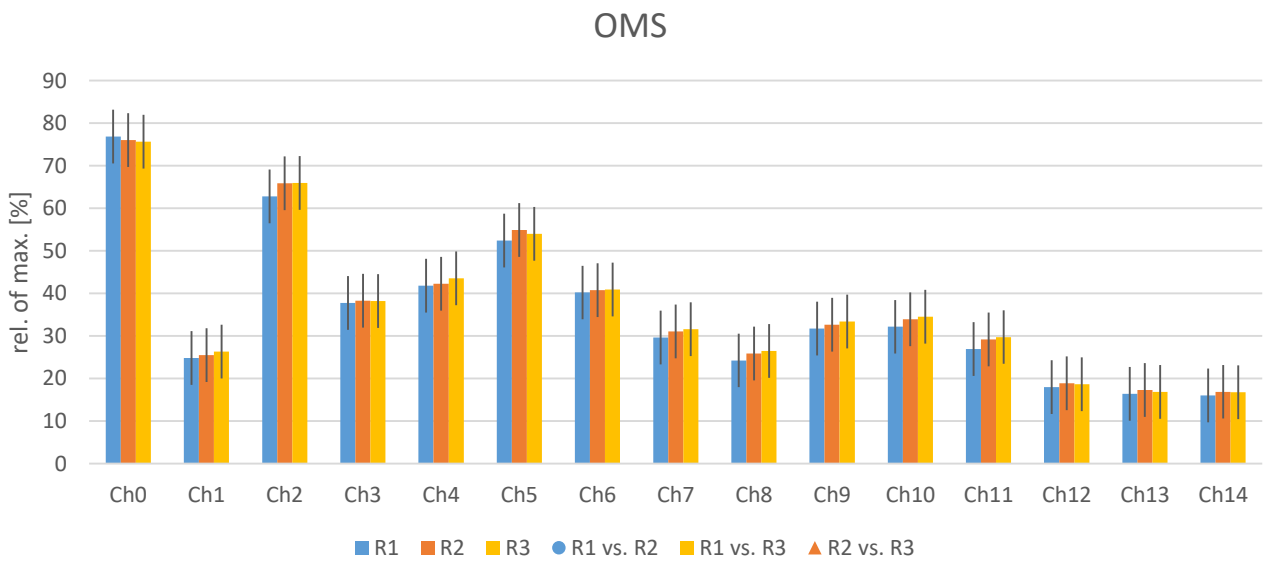
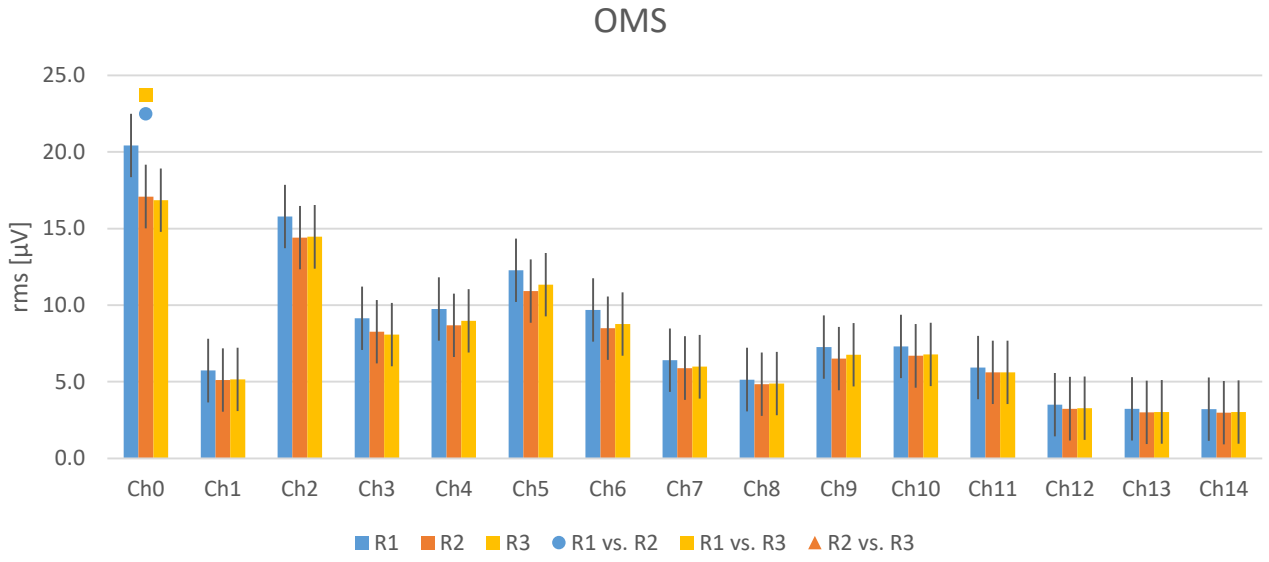
Exercise

Closed mouth smiling (CMS)

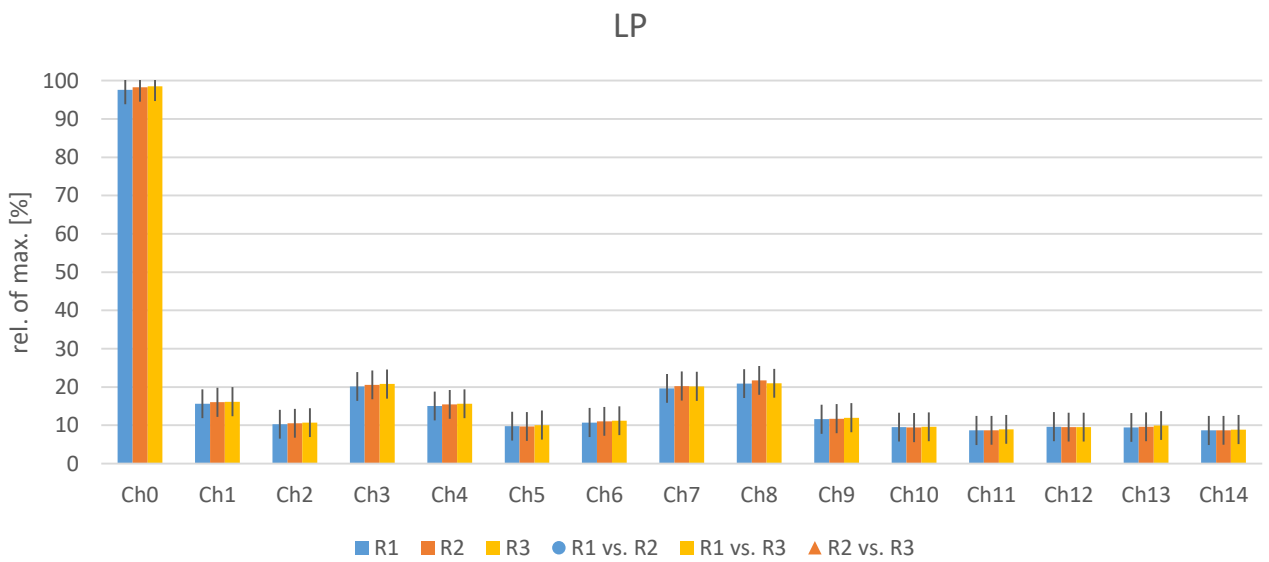
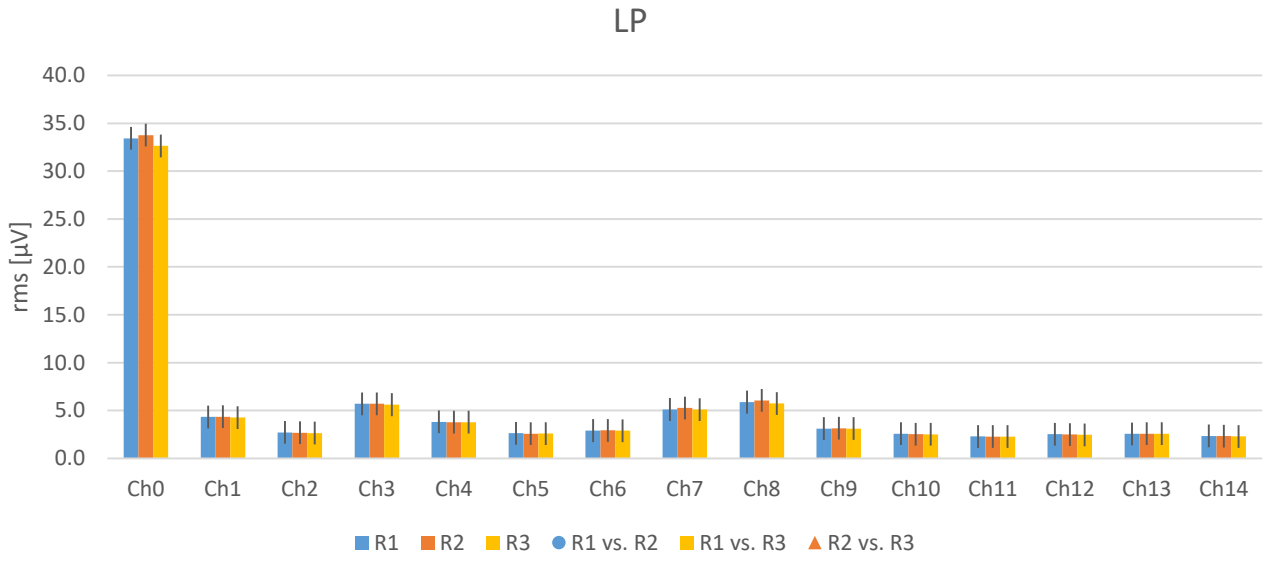


Exercise

Open mouth smiling (OMS)

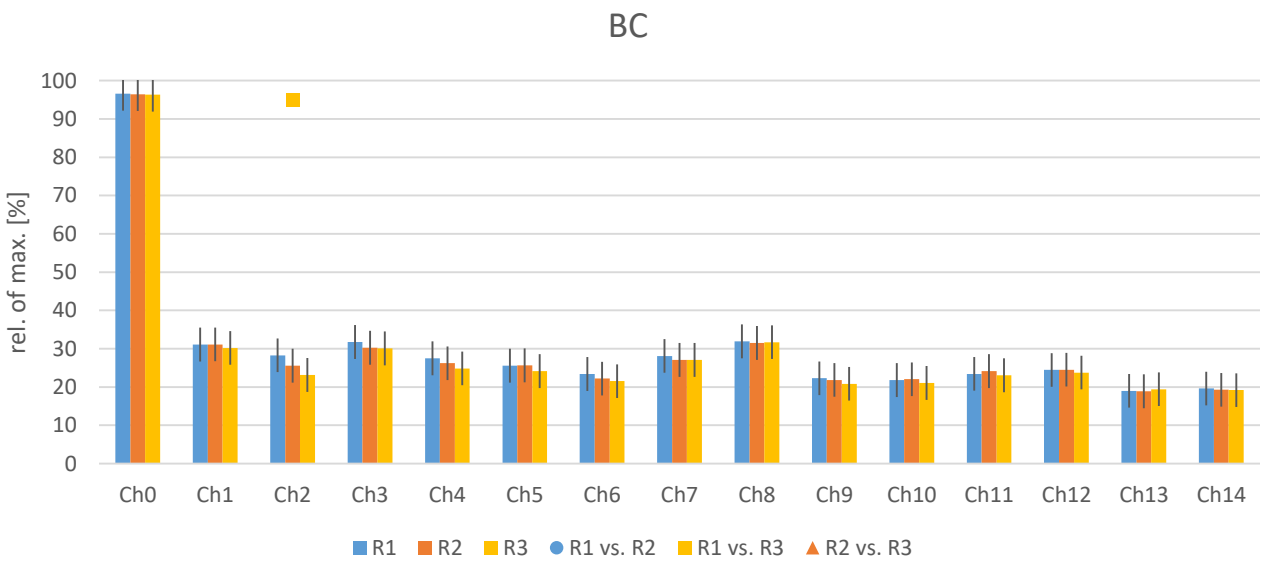
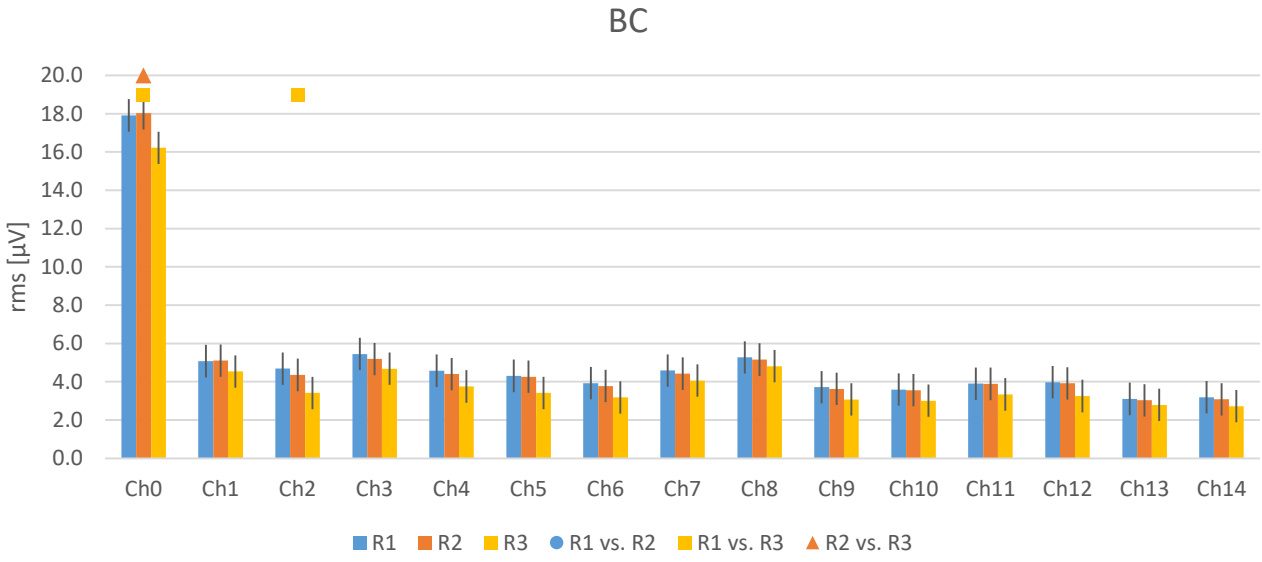


Exercise Lip puckering (LP)



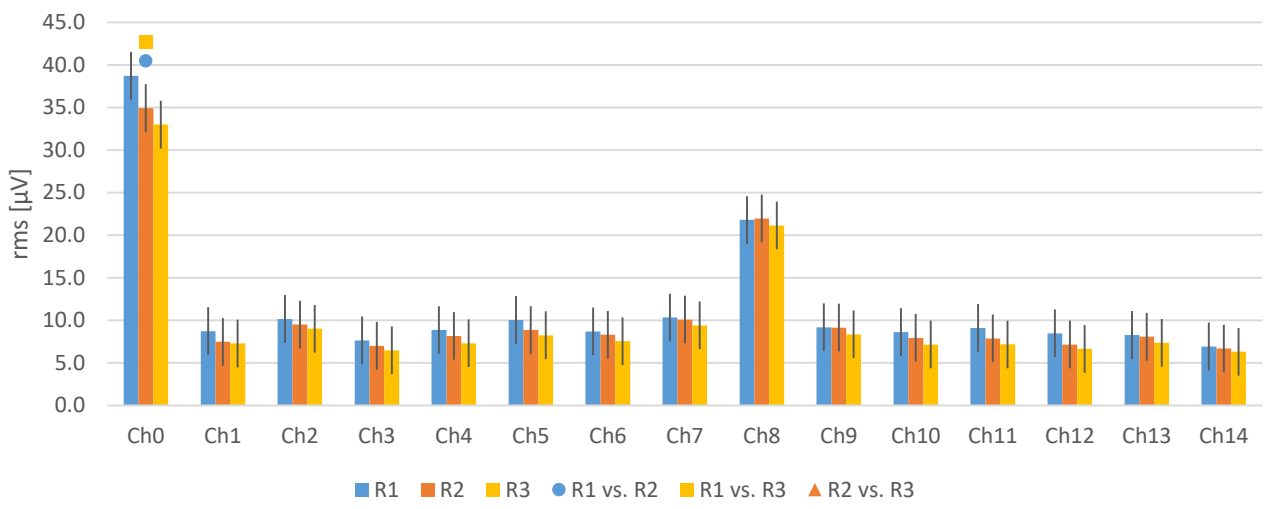
Exercise

Blowing-out the cheeks (BC)

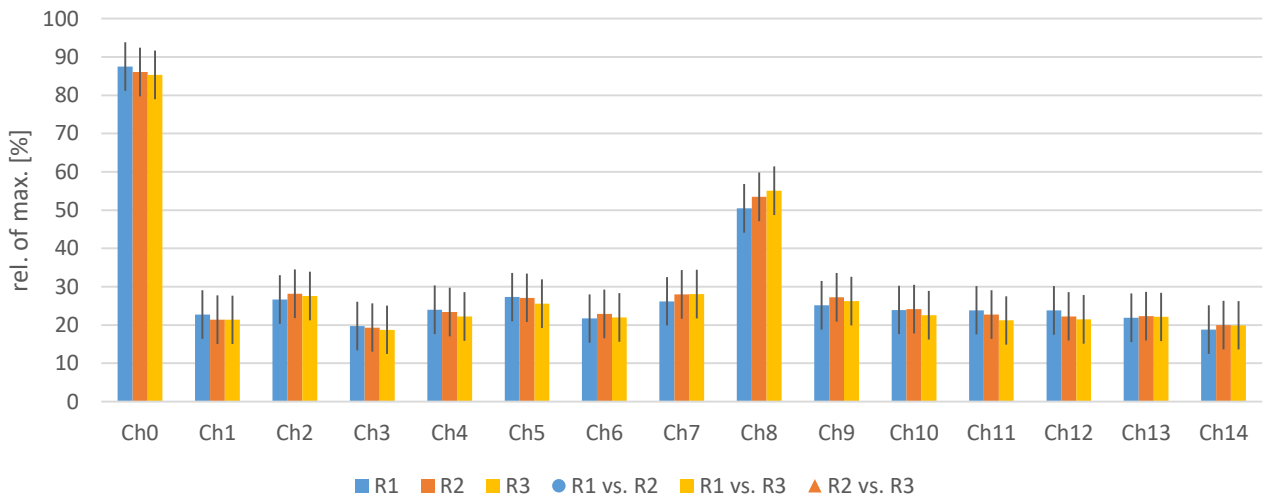


Exercise Snarling (S)

S



S



Exercise

Depressing the lower lips (DLL)

