Description of Additional Supplementary Files

Supplementary Data 1. Euclidean distances between group means of bgPCA analysis A Supplementary Data 2. Euclidean distances between group means of bgPCA analysis B Supplementary Data 3. Euclidean distances between group means of bgPCA analysis C Supplementary Data 4. Euclidean distances between group means of bgPCA analysis D Supplementary Data 5. 3d model of vLCA1 (.ply) * Supplementary Data 6. 3d model of vLCA2 (.ply) * Supplementary Data 7. 3d model of vLCA1b (.ply) * Supplementary Data 8. 3d model of vLCA2b (.ply) * Supplementary Data 9. 3d model of vLCA1NS (.ply) * Supplementary Data 10. 3d model of vLCA1Sub (.ply) * Supplementary Data 11. 3d model of vLCA1Ld (.ply) * Supplementary Data 12. Surface deviation of vLCA1 vs 2 (.ply, see Fig. 3a) * Supplementary Data 13. Surface deviation of vLCA1 vs 1b (.ply, see Supplementary Fig. 3a) * Supplementary Data 14. Surface deviation of vLCA2 vs 2b (.ply, see Supplementary Fig. 3b) * Supplementary Data 15. Surface deviation of vLCA1b vs 2b (.ply, see Supplementary Fig. 3c) * Supplementary Data 16. Surface deviation of vLCA1 vs 1NS (.ply, see Supplementary Fig. 7) * Supplementary Data 17. Surface deviation of vLCA1 vs 1Sub (.ply, see Supplementary Fig. 8) * Supplementary Data 18. Surface deviation of vLCA1 vs 1Ld (.ply, see Supplementary Fig. 9) *

*In order to visualise properly Supplementary Data 5-18, please use the open source Meshlab software [http://www.meshlab.net/#download] or use the R software with the following command lines where X stands for the drive letter and Y stands for the number of the Supplementary Data file (i.e. 5 to 18):

open Libraries

library(rgl)

library(Morpho)

import Mesh

Mesh <- file2mesh('X:/SuppDataY.ply', readcol=TRUE)</pre>

view imported Mesh

open3d()

shade3d(Mesh)