
Publications and Contributions

1. Book Chapter

- 2012 Forer, L., Schönherr, S., **Weissensteiner, H.**, Specht, G., Kronenberg, F., Kloss-Brandstätter, A., "Cloud Computing". In: *Computational Medicine*. Springer Vienna, pp. 27–36.

2. Journals

- 2017 Coassin, S., Erhart, G., **Weissensteiner, H.**, Araújo, M. E. G., Lamina, C., Schönherr, S., Forer, L., Haun, M., Losso, J. L., Köttgen, A., Schmidt, K., Utermann, G., Peters, A., Gieger, C., Strauch, K., Finkenedt, A., Bale, R., Zoller, H., Paulweber, B., Eckardt, K.-U., Hüttenhofer, A., Huber, L. A., Kronenberg, F., "A novel but frequent variant in LPA KIV-2 is associated with a pronounced Lp(a) and cardiovascular risk reduction". In: *European Heart Journal*.

- 2016 Forer, L., Afgan, E., **Weissensteiner, H.**, Davidovic, D., Specht, G., Kronenberg, F., Schoenherr, S., "Cloudflow-enabling faster biomedical pipelines with MapReduce and Spark". In: *Scalable Computing: Practice and Experience* 17.2, pp. 103–114.

Weissensteiner, H., Forer, L., Fuchsberger, C., Schöpf, B., Kloss-Brandstätter, A., Specht, G., Kronenberg, F., Schönherr, S., "mtDNA-Server: next-generation sequencing data analysis of human mitochondrial DNA in the cloud". In: *Nucleic Acids Research*, gkw247.

Weissensteiner, H., Pacher, D., Kloss-Brandstätter, A., Forer, L., Specht, G., Bandelt, H.-J., Kronenberg, F., Salas, A., Schönherr, S., "HaploGrep 2: mitochondrial haplogroup classification in the era of high-throughput sequencing". In: *Nucleic Acids Research*, gkw233.

- 2015 Kehdy, F. S. G., Gouveia, M. H., Machado, M., Magalhães, W. C. S., Horimoto, A. R., Horta, B. L., Moreira, R. G., Leal, T. P., Scliar, M. O., Soares-Souza, G. B., Rodrigues-Souza, F., Araújo, G. S., Zamudio, R., Sant Anna, H. P., Santos, H. C., Duarte, N. E., Fiaccone, R. L., Figueiredo, C. a., Silva, T. M., Costa, G. N. O., Beleza, S., Berg, D. E., Cabrera, L., Debortoli, G., Duarte, D., Ghirotto, S., Gilman, R. H., Gonçalves, V. F., Marrero, A. R., Muniz, Y. C., **Weissensteiner, H.**, Yeager, M., Rodrigues, L. C., Barreto, M. L., Lima-Costa, M. F., Pereira, A. C., Rodrigues, M. R., Tarazona-Santos, E., "Origin and dynamics of admixture in Brazilians and its effect on the pattern of deleterious mutations". In: *Proceedings of the National Academy of Sciences* 112.28, pp. 8696–8701.

- Kloss-Brandstätter, A., **Weissensteiner, H.**, Erhart, G., Schäfer, G., Forer, L., Schönherr, S., Pacher, D., Seifarth, C., Stöckl, A., Fendt, L., Sottas, I., Klocker, H., Huck, C. W., Rasse, M., Kronenberg, F., Kloss, F. R., "Validation of next-generation sequencing of entire mitochondrial genomes and the diversity of mitochondrial DNA mutations in oral squamous cell carcinoma". In: *PloS One* 10.8, e0135643.
- Raschenberger, J., Kollerits, B., Titze, S., Koettgen, A. K., Baerthlein, B. B., Ekici, A. B., Forer, L., Sch, S., Schönherr, **Weissensteiner, H.**, Haun, M., Wanner, C., Eckardt, K.-U., Kronenberg, F., "Association of relative telomere length with cardiovascular disease in a large chronic kidney disease cohort: the GCKD study". In: *Atherosclerosis* 242.2, pp. 529–534.
- Raschenberger, J., Kollerits, B., Titze, S., Köttgen, A., Bärthlein, B., Ekici, A. B., Forer, L., Schönherr, S., **Weissensteiner, H.**, Haun, M., Wanner, C., Eckardt, K.-U., Kronenberg, F., "Do telomeres have a higher plasticity than thought? Results from the German Chronic Kidney Disease (GCKD) study as a high-risk population". In: *Experimental Gerontology* 72, pp. 162–166.
- 2014 Lamina, C., Linsenmeyer, J., **Weissensteiner, H.**, Kollerits, B., Meisinger, C., Rantner, B., Stöckl, D., Stadler, M., Klein-Weigel, P., Peters, A., "Correlation between a positive family risk score and peripheral artery disease in one case-control and two population-based studies". In: *Atherosclerosis* 237.1, pp. 243–250.
- Summerer, M., Horst, J., Erhart, G., **Weissensteiner, H.**, Schönherr, S., Pacher, D., Forer, L., Horst, D., Manhart, A., Horst, B., Sanguansermsri, T., Kloss-Brandstätter, A., "Large-scale mitochondrial DNA analysis in Southeast Asia reveals evolutionary effects of cultural isolation in the multi-ethnic population of Myanmar". In: *BMC Evolutionary Biology* 14.1, p. 17.
- 2013 **Weissensteiner, H.**, Haun, M., Schönherr, S., Neuner, M., Forer, L., Specht, G., Kloss-Brandstätter, A., Kronenberg, F., Coassin, S., "SNPflow: a lightweight application for the processing, storing and automatic quality checking of genotyping assays". In: *PloS One* 8.3, e59508.
- 2012 Schönherr, S., Forer, L., **Weissensteiner, H.**, Kronenberg, F., Specht, G., Kloss-Brandstätter, A., "Cloudgene: A graphical execution platform for MapReduce programs on private and public clouds". In: *BMC Bioinformatics* 13.1, p. 200.
- 2011 Kloss-Brandstätter, A., Pacher, D., Schönherr, S., **Weissensteiner, H.**, Binna, R., Specht, G., Kronenberg, F., "HaploGrep: a fast and reliable algorithm for automatic classification of mitochondrial DNA haplogroups". In: *Human Mutation* 32.1, pp. 25–32.
- 2010 Forer, L., Schönherr, S., **Weissensteiner, H.**, Haider, F., Kluckner, T., Gieger, C., Wichmann, H.-E., Specht, G., Kronenberg, F., Kloss-Brandstätter, A., "CONAN: copy number variation analysis software for genome-wide association studies". In: *BMC Bioinformatics* 11.1, p. 318.

Weissensteiner, H., Schönherr, S., Specht, G., Kronenberg, F., Brandstätter, A., "eCOMPAGT integrates mtDNA: import, validation and export of mitochondrial DNA profiles for population genetics, tumour dynamics and genotype-phenotype association studies". In: *BMC Bioinformatics* 11.1, p. 122.

- 2009 Schönherr, S., **Weissensteiner, H.**, Coassin, S., Specht, G., Kronenberg, F., Brandstätter, A., "eCOMPAGT—efficient combination and management of phenotypes and genotypes for genetic epidemiology". In: *BMC Bioinformatics* 10.1, p. 139.

3. Conference Proceedings

- 2015 Forer, L., Afgan, E., **Weissensteiner, H.**, Davidović, D., Specht, G., Kronenberg, F., Schönherr, S., "Cloudflow-A framework for mapreduce pipeline development in biomedical research". In: *Information and Communication Technology, Electronics and Microelectronics (MIPRO), 2015 38th International Convention on*. IEEE, pp. 172–177.
- 2014 Forer, L., Lipic, T., Schönherr, S., **Weissensteiner, H.**, Davidovic, D., Kronenberg, F., Afgan, E., "Delivering bioinformatics mapreduce applications in the cloud". In: *Information and Communication Technology, Electronics and Microelectronics (MIPRO), 2014 37th International Convention on*. IEEE, pp. 373–377.
- 2011 Schönherr, S., Forer, L., **Weissensteiner, H.**, Kronenberg, F., Specht, G., Kloss-Brandstätter, A., "A feedback guided interface for elastic computing." In: *Grundlagen von Datenbanken*, pp. 109–114.