Sources

- Alpízar-Rodríguez, D., Pluchino, N., Canny, G., Gabay, C., & Finckh, A. (2017). The role of female hormonal factors in the development of rheumatoid arthritis. *Rheumatology (United Kingdom)*, *56*(8), 1254–1263. https://doi.org/10.1093/RHEUMATOLOGY/KEW318
- Baker, K. F., Spierings, J., Brom, M., Radstake, T., Smith, E., Weiss, R., Burmester, G. R., Bijlsma, J. W. J., McInnes, I., Baker, K., Lories, R., Pitzalis, C., Distler, J. H. W., Burmester, G., Cope, A. P., Distler, O., Spierings, J., Hoffmann-Vold, A. M., Radstake, T., ... Vesely, R. (2024). Cure as a treatment target in rheumatoid arthritis and systemic sclerosis—achievable aim or mission impossible? FOREUM stimulates new industry-academia collaboration. *Annals of the Rheumatic Diseases*, *0*, 1–4. https://doi.org/10.1136/ARD-2024-226772
- Blighe, K., Rana, S., & Lewis, M. (2023). EnhancedVolcano: Publication-ready volcano plots with enhanced colouring and labeling (Version 1.24.0) [R package].

 Bioconductor. https://bioconductor.org/packages/EnhancedVolcano/
- Carlson, M. (2023). org.Hs.eg.db: Genome wide annotation for Human (Version 3.20.0) [R package]. Bioconductor. https://bioconductor.org/packages/org.Hs.eg.db/
- Hao, R., Du, H., Guo, L., Tian, F., An, N., Yang, T., Wang, C., Wang, B., & Zhou, Z. (2017). Identification of dysregulated genes in rheumatoid arthritis based on bioinformatics analysis. *PeerJ*, *2017*(3), e3078. https://doi.org/10.7717/PEERJ.3078/SUPP-2
- Ishikawa, Y., & Terao, C. (2020). The Impact of Cigarette Smoking on Risk of Rheumatoid Arthritis: A Narrative Review. *Cells*, *9*(2), 475. https://doi.org/10.3390/CELLS9020475
- Jahid, M., Khan, K. U., Rehan-Ul-Haq, & Ahmed, R. S. (2023). Overview of Rheumatoid Arthritis and Scientific Understanding of the Disease. *Mediterranean Journal of Rheumatology*, *34*(3), 284. https://doi.org/10.31138/MJR.20230801.OO
- Jiang, L. Q., Zhang, R. Di, Musonye, H. A., Zhao, H. Y., He, Y. S., Zhao, C. N., He, T., Tian, T., Gao, Z. X., Fang, Y., Wang, P., Ni, J., & Pan, H. F. (2024). Hormonal and reproductive factors in relation to the risk of rheumatoid arthritis in women: a prospective cohort study with 223 526 participants. RMD Open, 10(1). https://doi.org/10.1136/RMDOPEN-2023-003338
- Liao, Y., Smyth, G. K., & Shi, W. (2019). The Rsubread package for alignment and quantification of RNA sequencing reads. *Nucleic Acids Research*, *47*(8), e47. https://doi.org/10.1093/nar/gkz114
- Love, M. I., Huber, W., & Anders, S. (2014). Moderated estimation of fold change and dispersion for RNA-seq data with DESeq2. *Genome Biology*, 15(12), 550. https://doi.org/10.1186/s13059-014-0550-8
- Luo, W., & Brouwer, C. (2013). Pathview: An R/Bioconductor package for pathway-based data integration and visualization. *Bioinformatics*, 29(14), 1830–1831. https://doi.org/10.1093/bioinformatics/btt285
- Morgan, M., Pagès, H., & Obenchain, V. (2023). Rsamtools: Binary alignment (BAM), FASTA, variant call (BCF) and tabix file import (Version 2.22.0) [R package].

 Bioconductor. https://bioconductor.org/packages/Rsamtools/
- Poudel, D., George, M. D., & Baker, J. F. (2020). The Impact of Obesity on Disease Activity and Treatment Response in Rheumatoid Arthritis. *Current Rheumatology Reports*, 22(9), 56. https://doi.org/10.1007/S11926-020-00933-4
- Pradeepkiran, J. A. (2019). Insights of rheumatoid arthritis risk factors and associations. *Journal of Translational Autoimmunity*, 2, 100012. https://doi.org/10.1016/J.JTAUTO.2019.100012

- R Core Team. (2024). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. https://www.R-project.org/
- Schett, G., Tanaka, Y., & Isaacs, J. D. (2021). Why remission is not enough: underlying disease mechanisms in RA that prevent cure. *Nature Reviews Rheumatology*, *17*(3), 135–144. https://doi.org/10.1038/S41584-020-00543-5;SUBJMETA=1670,1750,256,4023,420,498,692,700;KWRD=INFLAMMATION,PROGNOSIS,RHEUMATOID+ARTHRITIS
- Tenenbaum, D. (2023). KEGGREST: Client-side REST access to KEGG (Version 1.46.0) [R package]. Bioconductor. https://bioconductor.org/packages/KEGGREST/
- Wickham, H. (2016). *ggplot2: Elegant graphics for data analysis*. Springer-Verlag New York. https://ggplot2.tidyverse.org
- Wickham, H., François, R., Henry, L., & Müller, K. (2023). dplyr: A grammar of data manipulation (Version 1.1.4) [R package]. CRAN. https://CRAN.R-project.org/package=dplyr
- Wickham, H., Hester, J., & Bryan, J. (2023). readr: Read rectangular text data (Version 2.1.5) [R package]. CRAN. https://CRAN.R-project.org/package=readr
- Wu, T., Hu, E., Xu, S., Chen, M., Guo, P., Dai, Z., ... & Yu, G. (2021). clusterProfiler 4.0: A universal enrichment tool for interpreting omics data. *The Innovation*, *2*(3), 100141. https://doi.org/10.1016/j.xinn.2021.100141
- Yunt, Z. X., & Solomon, J. J. (2015). Lung Disease in Rheumatoid Arthritis. *Rheumatic Diseases Clinics of North America*, 41(2), 225. https://doi.org/10.1016/J.RDC.2014.12.004