



## Daniel Richard

Postdoctoral Scholar, Genetics

### Bio

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#### STANFORD ADVISORS

- Anne Brunet, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Targeting immune cells in the aged brain reveals that engineered cytokine IL-10 enhances neurogenesis and improves cognition.** *Immunity*  
Navarro Negredo, P., You, J., Hauptschein, M., Schroer, A. B., Richard, D. J., Abhiraman, G. C., Tsai, A. P., Sun, E. D., Notarangelo, G., Ramirez-Matias, J., Zhou, O. Y., Buckley, M. T., Malacon, et al  
2026
- **Age-related microbiome metabolites alter RNA splicing and chromatin accessibility in the brain.** *bioRxiv : the preprint server for biology*  
Chakraborty, M., Shi, S. M., Porter, I. E., Richard, D. J., Marinov, G. K., Moore, A. A., Blum, J. L., Natarajan, A., Jahng, J. W., Wu, J. C., Lu, S. X., Davidson, S. M., Greenleaf, et al  
2025
- **The evolution of hominin bipedalism in two steps.** *Nature*  
Senevirathne, G., Fernandopulle, S. C., Richard, D., Baumgart, S. L., Christensen, A. L., Fabbri, M., Höppner, J., Jüppner, H., Li, P., Bothe, V., Fröbisch, N., Simcock, I., Arthurs, et al  
2025
- **Complex regulatory interactions at GDF5 shape joint morphology and osteoarthritis disease risk.** *Arthritis & rheumatology (Hoboken, N.J.)*  
Coveney, C. R., Maridas, D., Chen, H., Muthuirulan, P., Liu, Z., Jagoda, E., Yartagadda, S., Movahhedi, M., Proffen, B., Dashtdar, B., Aghaalikhani, M., Richard, D., Rosen, et al  
2025
- **Functional genomics of human skeletal development and the patterning of height heritability** *CELL*  
Richard, D., Muthuirulan, P., Young, M., Yengo, L., Vedantam, S., Marouli, E., Bartell, E., GIANT Consortium, G. T., Hirschhorn, J., Capellini, T. D.  
2025; 188 (1): 15-32.e24
- **Disagreement on foundational principles of biological aging.** *PNAS nexus*  
Gladyshev, V. N., Anderson, B., Barlit, H., Barré, B., Beck, S., Behrouz, B., Belsky, D. W., Chaix, A., Chamoli, M., Chen, B. H., Cheng, K., Chuprin, J., Churchill, et al  
2024; 3 (12): pgae499
- **Lineage-specific differences and regulatory networks governing human chondrocyte development** *ELIFE*  
Richard, D., Pregizer, S., Venkatasubramanian, D., Raftery, R. M., Muthuirulan, P., Liu, Z., Capellini, T. D., Craft, A. M.  
2023; 12
- **Regulatory dissection of the severe COVID-19 risk locus introgressed by Neanderthals** *ELIFE*  
Jagoda, E., Marnetto, D., Senevirathne, G., Gonzalez, V., Baid, K., Montinaro, F., Richard, D., Falzarano, D., LeBlanc, E., Colpitts, C. C., Banerjee, A., Pagani, L., Capellini, et al

2023; 12

● **Joint disease-specificity at the regulatory base-pair level** *NATURE COMMUNICATIONS*

Muthuirulan, P., Zhao, D., Young, M., Richard, D., Liu, Z., Emami, A., Portilla, G., Hosseinzadeh, S., Cao, J., Maridas, D., Sedlak, M., Menghini, D., Cheng, et al

2021; 12 (1): 4161

● **Experimental and natural evidence of SARS-CoV-2-infection-induced activation of type I interferon responses** *ISCIENCE*

Banerjee, A., El-Sayes, N., Budyłowski, P., Jacob, R., Richard, D., Maan, H., Aguiar, J. A., Demian, W. L., Baid, K., D'Agostino, M. R., Ang, J., Murdza, T., Tremblay, et al

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