

## Courtney Smith

- MD Student, expected graduation Spring 2027
- Ph.D. Student in Genetics, admitted Autumn 2019

### Publications

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#### PUBLICATIONS

- **Buffering of gene dosage response curves for human complex traits.** *Cell genomics*  
Milind, N., Smith, C. J., Zhu, H., Gjorgjieva, T., Spence, J. P., Pritchard, J. K.  
2026: 101221
- **A Pilot Study Evaluating Traditional and Artificial Intelligence (AI)-Generated Bedside Art Interventions in Hospital Care.** *Journal of patient experience*  
Smith, B. R., Toomer, L. A., Vu, E., Collins, B., Ivec, A. E., Sayle, C., Smith, C. J., Shi, J., Ambler, M., Lin, B.  
2026; 13: 23743735261423084
- **AI-Quantified Patient Frailty Predicts Clinical Response to CAR-T**  
Smith, C. J., Fettahoglu, A., Johnston, A., Smith, B. R., Mikkilinenni, L., Sidana, S., Weng, W., Frank, M., Dahiya, S., Smith, M., Chaudhari, A., Miklos, D. B., Boutin, et al  
ELSEVIER SCIENCE INC.2026
- **Specificity, length and luck drive gene rankings in association studies.** *Nature*  
Spence, J. P., Mostafavi, H., Ota, M., Milind, N., Gjorgjieva, T., Smith, C. J., Simons, Y. B., Sella, G., Pritchard, J. K.  
2025
- **Simple scaling laws control the genetic architectures of human complex traits.** *PLoS biology*  
Simons, Y. B., Mostafavi, H., Zhu, H., Smith, C. J., Pritchard, J. K., Sella, G.  
2025; 23 (10): e3003402
- **Buffering and non-monotonic behavior of gene dosage response curves for human complex traits.** *medRxiv : the preprint server for health sciences*  
Milind, N., Smith, C. J., Zhu, H., Gjorgjieva, T., Spence, J. P., Pritchard, J. K.  
2025
- **Haplotype analysis reveals pleiotropic disease associations in the HLA region.** *American journal of human genetics*  
Smith, C. J., Strausz, S., Spence, J. P., Ollila, H. M., Pritchard, J. K.  
2025
- **Lisocabtagene Maraleucel for Richter's Transformation-A Case Series.** *EJHaem*  
Smith, C. J., Goyal, A., Smith, B. R., Lee, D., Jensen, A., Alexander, J., Smith, M., Frank, M., Dahiya, S., Miklos, D., Bharadwaj, S.  
2025; 6 (2): e270011
- **Specificity, length, and luck: How genes are prioritized by rare and common variant association studies.** *bioRxiv : the preprint server for biology*  
Spence, J. P., Mostafavi, H., Ota, M., Milind, N., Gjorgjieva, T., Smith, C. J., Simons, Y. B., Sella, G., Pritchard, J. K.  
2024
- **Haplotype Analysis Reveals Pleiotropic Disease Associations in the HLA Region.** *medRxiv : the preprint server for health sciences*  
Smith, C. J., Strausz, S., Spence, J. P., Ollila, H. M., Pritchard, J. K.  
2024
- **Transcriptomics and chromatin accessibility in multiple African population samples.** *bioRxiv : the preprint server for biology*

DeGorter, M. K., Goddard, P. C., Karakoc, E., Kundu, S., Yan, S. M., Nachun, D., Abell, N., Aguirre, M., Carstensen, T., Chen, Z., Durrant, M., Dwaracherla, V. R., Feng, et al  
2023

- **Annals Graphic Medicine - Preparing for a Genomic Future.** *Annals of internal medicine*  
Smith, C. J., Smith, B. R.  
2023
- **Factors of transurethral incision effectiveness for ureteroceles in pediatric patients: A 28-year, single-institution retrospective review.** *Journal of pediatric urology*  
Smith, B. R., Smith, C. J., Sharma, K., Sheth, K. R.  
2023
- **Integrative analysis of metabolite GWAS illuminates the molecular basis of pleiotropy and genetic correlation.** *eLife*  
Smith, C. J., Sinnott-Armstrong, N., Cichonska, A., Julkunen, H., Fauman, E. B., Wurtz, P., Pritchard, J. K.  
2022; 11
- **Genetic interactions drive heterogeneity in causal variant effect sizes for gene expression and complex traits.** *American journal of human genetics*  
Patel, R. A., Musharoff, S. A., Spence, J. P., Pimentel, H., Tcheandjieu, C., Mostafavi, H., Sinnott-Armstrong, N., Clarke, S. L., Smith, C. J., V.A. Million Veteran Program,,, Durda, P. P., Taylor, K. D., et al  
2022
- **Short-Term Dairy Product Elimination and Reintroduction Minimally Perturbs the Gut Microbiota in Self-Reported Lactose-Intolerant Adults.** *mBio*  
Smith, C. J., Dethlefsen, L., Gardner, C., Nguyen, L., Feldman, M., Costello, E. K., Kolodny, O., Relman, D. A.  
2022: e0105122