



## Konstantin Kahnert

Postdoctoral Scholar, Bioengineering

### Bio

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#### STANFORD ADVISORS

- Emma Lundberg, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Generative machine learning unlocks the first proteome-wide image of human cells.** *bioRxiv : the preprint server for biology*  
Sun, H., Kahnert, K., Hansen, J. N., Leineweber, W., Li, M., Feng, W., Ballllosera, F., Axelsson, U., Ouyang, W., Lundberg, E.  
2026
- **An Unbiased Molecular Characterization of Peripartum Cardiomyopathy Hearts Identifies Mast Cell Chymase as a New Diagnostic Candidate** *MOLECULAR & CELLULAR PROTEOMICS*  
Mulvey, J. F., Sailer, C., Achter, J. S., Milburn, G. N., Bretherton, R. C., Kahnert, K., Bilir, S., Hvid, H., Pyke, C., Gustafsson, F., Adamo, L., Campbell, K. S., Herum, et al  
2026; 25 (2): 101510
- **SubCell: Proteome-aware vision foundation models for microscopy capture single-cell biology.** *bioRxiv : the preprint server for biology*  
Gupta, A., Wefers, Z., Kahnert, K., Hansen, J. N., Misra, M. K., Leineweber, W., Cesnik, A., Lu, D., Axelsson, U., Ballllosera, F., Altman, R. B., Karaletsos, T., Lundberg, et al  
2025
- **Intrinsic heterogeneity of primary cilia revealed through spatial proteomics.** *Cell*  
Hansen, J. N., Sun, H., Kahnert, K., Westenius, E., Johannesson, A., Villegas, C., Le, T., Tzavlaki, K., Winsnes, C., Pohjanen, E., Mäkineniemi, A., Fall, J., Ballllosera Navarro, et al  
2025
- **Rare and Common Genetic Variation Underlying Atrial Fibrillation Risk.** *JAMA cardiology*  
Vad, O. B., Monfort, L. M., Paludan-Muller, C., Kahnert, K., Diederichsen, S. Z., Andreasen, L., Lotta, L. A., Nielsen, J. B., Lundby, A., Svendsen, J. H., Olesen, M. S., Geisinger MyCode Community Health Initiative and the Regeneron Genetics Center (RGC) Research Team, Baras, A., et al  
2024
- **Proteomics couples electrical remodelling to inflammation in a murine model of heart failure with sinus node dysfunction** *CARDIOVASCULAR RESEARCH*  
Kahnert, K., Soattin, L., Mills, R., Wilson, C., Maurya, S., Sorrentino, A., Al-Othman, S., Tikhomirov, R., van de Vegte, Y., Hansen, F., Achter, J., Hu, W., Zi, et al  
2024
- **Beta-blocker/ACE inhibitor therapy differentially impacts the steady state signaling landscape of failing and non-failing hearts** *SCIENTIFIC REPORTS*  
Sorrentino, A., Bagwan, N., Linscheid, N., Poulsen, P. C., Kahnert, K., Thomsen, M. B., Delmar, M., Lundby, A.  
2022; 12 (1): 4760