

Stanford

Kaavya Krishna Kumar

Instructor, Molecular & Cellular Physiology

Bio

ACADEMIC APPOINTMENTS

- Instructor, Molecular & Cellular Physiology
- Member (Staff), Cardiovascular Institute

Publications

PUBLICATIONS

- **Stepwise activation of a metabotropic glutamate receptor.** *Nature*

Krishna Kumar, K., Wang, H., Habrian, C., Latorraca, N. R., Xu, J., O'Brien, E. S., Zhang, C., Montabana, E., Koehl, A., Marqusee, S., Isacoff, E. Y., Kobilka, B. K.
2024

- **Structural basis for activation of CB1 by an endocannabinoid analog.** *Nature communications*

Krishna Kumar, K., Robertson, M. J., Thadhani, E., Wang, H., Suomivuori, C. M., Powers, A. S., Ji, L., Nikas, S. P., Dror, R. O., Inoue, A., Makriyannis, A., Skiniotis, G., Kobilka, et al
2023; 14 (1): 2672

- **The ubiquitination status of the glucagon receptor determines signal bias.** *The Journal of biological chemistry*

Kaur, S., Sokrat, B., Capozzi, M. E., El, K., Bai, Y., Jazic, A., Han, B., Krishna Kumar, K., D'Alessio, D. A., Campbell, J. E., Bouvier, M., Shenoy, S. K.
2023; 299 (5): 104690

- **Negative allosteric modulation of the glucagon receptor by RAMP2.** *Cell*

Krishna Kumar, K., O'Brien, E. S., Habrian, C. H., Latorraca, N. R., Wang, H., Tuneew, I., Montabana, E., Marqusee, S., Hilger, D., Isacoff, E. Y., Mathiesen, J. M., Kobilka, B. K.
2023; 186 (7): 1465-1477.e18

- **Negative allosteric modulation of the glucagon receptor by RAMP2**

O'Brien, E. S., Kumar, K., Habrian, C., Latorraca, N. R., Wang, H., Tuneew, I., Montabana, E., Marqusee, S., Hilger, D., Isacoff, E. Y., Mathiesen, J. M., Kobilka, B. K.
CELL PRESS.2023; 161A

- **Negative allosteric modulation of the glucagon receptor by RAMP2.** *Biophysical journal*

O'Brien, E. S., Krishna Kumar, K., Habrian, C., Latorraca, N. R., Wang, H., Tuneew, I., Montabana, E., Marqusee, S., Hilger, D., Isacoff, E. Y., Mathiesen, J. M., Kobilka, B. K.
2023; 122 (3S1): 161a

- **Conformational transitions of a neuropeptidergic receptor-Gi1 complex.** *Nature*

Kato, H. E., Zhang, Y., Hu, H., Suomivuori, C., Kadji, F. M., Aoki, J., Krishna Kumar, K., Fonseca, R., Hilger, D., Huang, W., Latorraca, N. R., Inoue, A., Dror, et al
2019

- **Selective modulation of the cannabinoid type 1 (CB1) receptor as an emerging platform for the treatment of neuropathic pain.** *MedChemComm*

Banister, S. D., Krishna Kumar, K., Kumar, V., Kobilka, B. K., Malhotra, S. V.
2019; 10 (5): 647-659

- **Selective modulation of the cannabinoid type 1 (CB1) receptor as an emerging platform for the treatment of neuropathic pain** *MEDCHEMCOMM*

Banister, S. D., Kumar, K., Kumar, V., Kobilka, B. K., Malhotra, S. V.

2019; 10 (5): 647–59

● **Structure of a Signaling Cannabinoid Receptor 1-G Protein Complex *CELL***

Kumar, K., Shalev-Benami, M., Robertson, M. J., Hu, H., Banister, S. D., Hollingsworth, S. A., Latorraca, N. R., Kato, H. E., Hilger, D., Maeda, S., Weis, W. I., Farrens, D. L., Dror, et al

2019; 176 (3): 448-+

● **Structure of a Signaling Cannabinoid Receptor 1-G Protein Complex. *Cell***

Krishna Kumar, K., Shalev-Benami, M., Robertson, M. J., Hu, H., Banister, S. D., Hollingsworth, S. A., Latorraca, N. R., Kato, H. E., Hilger, D., Maeda, S., Weis, W. I., Farrens, D. L., Dror, et al

2018