

Carlos Alvarado

Ph.D. Student in Structural Biology, admitted Autumn 2019

Publications

PUBLICATIONS

- **eIF1 and eIF5 dynamically control translation start site fidelity.** *Nature structural & molecular biology*
Grosely, R., Alvarado, C., Ivanov, I. P., Nicholson, O. B., Puglisi, J. D., Dever, T. E., Lapointe, C. P.
2025
- **Conserved long-range interactions are required for stable folding of orthoflaviviral genomic RNA.** *Nucleic acids research*
Palo, M. Z., Ha, B., Lapointe, C. P., Alvarado, C., Janetzko, J., Carette, J. E., Puglisi, J. D., Puglisi, E. V.
2025; 53 (11)
- **Structure-based discovery of hydrocarbon-stapled paxillin peptides that block FAK scaffolding in cancer.** *Nature communications*
Reyes, L., Naser, L., Weiner, W. S., Thifault, D., Stahl, E., McCreary, L., Nott, R., Quick, C., Buchberger, A., Alvarado, C., Rivera, A., Miller, J. A., Khatiwala, et al
2025; 16 (1): 2060
- **eIF1 and eIF5 dynamically control translation start site fidelity.** *bioRxiv : the preprint server for biology*
Grosely, R., Alvarado, C., Ivanov, I. P., Nicholson, O. B., Puglisi, J. D., Dever, T. E., Lapointe, C. P.
2024
- **Long-range RNA interactions in flavivirus replication**
Palo, M. Z., Ha, B., Lapointe, C., Alvarado, C., Puglisi, J. D., Puglisi, E.
CELL PRESS.2024: 85A
- **Impacts of HIV-1 5' UTR structure on mRNA translation initiation**
Stackhouse, C. I., Jackson, L. N., Alvarado, C., Grosely, R., Puglisi, J. D., Puglisi, E.
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- **Rapid 40S scanning and its regulation by mRNA structure during eukaryotic translation initiation.** *Cell*
Wang, J., Shin, B., Alvarado, C., Kim, J., Bohlen, J., Dever, T. E., Puglisi, J. D.
2022
- **eIF5B and eIF1A reorient initiator tRNA to allow ribosomal subunit joining.** *Nature*
Lapointe, C. P., Grosely, R., Sokabe, M., Alvarado, C., Wang, J., Montabana, E., Villa, N., Shin, B., Dever, T. E., Fraser, C. S., Fernandez, I. S., Puglisi, J. D.
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