

Jesper Lykkegaard Karlsen
Akademisk medarbejder
Institut for Molekylærbiologi og Genetik - Strukturel Biologi
Gustav Wiedes Vej 10, 3135, 209
8000, Aarhus C
Danmark
E-mail: jlk@mb.au.dk
Mobil: 50906203



Publikationer

Structural remodelling of the carbon-phosphorus lyase machinery by a dual ABC ATPase

Amstrup, S. K., Ong, S. C., Sofos, N., Karlsen, J. L., Skjerning, R. B., Boesen, T., Enghild, J. J., Hove-Jensen, B. & Brodersen, D. E., feb. 2023, I: Nature Communications. 14, 1001.

Cryo-EM structure of the human NKCC1 transporter reveals mechanisms of ion coupling and specificity

Neumann, C., Rosenbaek, L. L., Flygaard, R. K., Habeck, M., Karlsen, J. L., Wang, Y., Lindorff-Larsen, K., Gad, H. H., Hartmann, R., Lyons, J. A., Fenton, R. A. & Nissen, P., dec. 2022, I: The EMBO Journal. 41, 23, 15 s., e110169.

Structural remodelling of the carbon-phosphorus lyase machinery by a dual ABC ATPase

Amstrup, S. K., Sofos, N. E., Karlsen, J. L., Skjerning, R. B., Boesen, T., Enghild, J. J., Hove-Jensen, B. & Brodersen, D. E., jun. 2022, bioRxiv, 34 s.

Cryo-EM structures of human A2ML1 elucidate the protease-inhibitory mechanism of the A2M family

Nielsen, N. S., Zarantonello, A., Harwood, S. L., Jensen, K. T., Kjølge, K., Thøgersen, I. B., Schausser, L., Karlsen, J. L., Andersen, G. R. & Enghild, J. J., maj 2022, I: Nature Communications. 13, 1, 15 s., 3033.

Structural Remodelling of the Carbon-Phosphorus Enzymatic Machinery by a Dual ATP-Binding Cassette Module

Brodersen, D. E., Amstrup, S. K., Sofos, N. E., Karlsen, J., Skjerning, R., Boesen, T., Enghild, J. J. & Jensen, B. H., maj 2022, I: The FASEB Journal. 36, S1

Structure and autoregulation of a P4-ATPase lipid flippase

Timcenko, M., Lyons, J. A., Janulienė, D., Ulstrup, J. J., Dieudonné, T., Montigny, C., Ash, M. R., Karlsen, J. L., Boesen, T., Kühlbrandt, W., Lenoir, G., Moeller, A. & Nissen, P., jul. 2019, I: Nature. 571, 7765, s. 366-370 5 s.

Namdinator - Automatic molecular dynamics flexible fitting of structural models into cryo-EM and crystallography experimental maps

Kidmose, R. T., Juhl, J., Nissen, P., Boesen, T., Karlsen, J. L. & Pedersen, B. P., 2019, I: IUCrJ. 6, 4, s. 526-531 6 s.

Initiating heavy-atom-based phasing by multi-dimensional molecular replacement

Pedersen, B. P., Gourdon, P., Liu, X., Karlsen, J. L. & Nissen, P., 1 mar. 2016, I: Acta crystallographica Section D: Structural biology. 72, Pt 3, s. 440-445 6 s.

How to Compare, Analyze, and Morph Between Crystal Structures of Different Conformations: The P-Type ATPase Example

Karlsen, J. L. & Bublitz, M., 2016, *Methods in Molecular Biology: Methods and Protocols*. Bublitz, M. (red.). New York: Springer, Bind 1377. s. 523-39 17 s. (Methods in molecular biology (Clifton, N.J.)).

Initiating Heavy-atom Based Phasing by Multi-Dimensional Molecular Replacement

Pedersen, B. P., Gourdon, P., Liu, X., Lykkegaard Karlsen, J. & Nissen, P., 28 mar. 2014, I: arXiv. 1403.7484

The sarcolipin-bound calcium pump stabilizes calcium sites exposed to the cytoplasm

Winther, A.-M. L., Bublitz, M., Karlsen, J. L., Møller, J. V., Hansen, J. B., Nissen, P. & Buch-Pedersen, M. J., 14 mar. 2013, I: Nature. 495, 7440, s. 265-269 5 s.

The crystal structure of the interleukin 21 receptor bound to interleukin 21 reveals that a sugar chain interacting with the WSXWS motif is an integral part of the interleukin 21 receptor

Hamming, O. J., Kang, L., Svensson, A., Karlsen, J. L., Rahbek-Nielsen, H., Paludan, S. R., Hjorth, S. A., Bondensgaard, K. & Hartmann, R., 16 mar. 2012, I: *Journal of Biological Chemistry*. 287, s. 9454-9460 7 s.

Structural models of the human copper P-type ATPases ATP7A and ATP7B

Gourdon, P., Sitsel, O., Karlsen, J. L., Møller, L. B. & Nissen, P., 1 mar. 2012, I: *Biological Chemistry*. 393, 4, s. 205-216 12 s.