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## Publications

### **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, In: 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, In: The EMBO Journal. 41, 23, 15 p., 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 p.

### **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., Kjøge, K., Thøgersen, I. B., Schausser, L., Karlsen, J. L., Andersen, G. R. & Enghild, J. J., May 2022, In: Nature Communications. 13, 1, 15 p., 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., May 2022, In: 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, In: Nature. 571, 7765, p. 366-370 5 p.

### **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, In: IUCrJ. 6, 4, p. 526-531 6 p.

### **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, In: Acta crystallographica Section D: Structural biology. 72, Pt 3, p. 440-445 6 p.

### **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. (ed.). New York: Springer, Vol. 1377. p. 523-39 17 p. (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, In: 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, In: Nature. 495, 7440, p. 265-269 5 p.

**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, In: *Journal of Biological Chemistry*. 287, p. 9454-9460 7 p.

**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, In: *Biological Chemistry*. 393, 4, p. 205-216 12 p.