

U of T Biochemistry

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MESSAGE FROM THE CHAIR

February is the shortest month of the year but filled with so much to celebrate. Lunar New Year, which is one of the most important celebrations of the year among East and Southeast Asian cultures - this is the year of the Water Tiger. The (Water) Tiger is action-oriented and represents strength, bravery and clearing away evil.

We also celebrate Black History month and reflect on the many black scientists who have blazed a trail, as well as the current and future scientists. The newly established [Canadian Black Scientists Network \(CBSN\)](#) is a national coalition of Black people possessing or pursuing higher degrees in Science, Technology, Engineering, Mathematics and Medicine/Health (STEMM). CBSN recently held their first conference, "Black Excellence in Science, Technology, Engineering, Mathematics and Medicine/Health" ([BE-STEMM 2022](#)) that was held virtually, and with the University being one of the sponsors and hosted by UTSC.

A huge Congratulations to our own Reinhart Reithmeier, the winner of the CSMB Arthur Wynne Gold Medal for his major contribution to Molecular Biosciences in Canada.

In this edition, we are also providing a list of all 2021 publication by our trainees, staff and faculty where the University of Toronto/Dept. of Biochemistry was included in the affiliations. If we missed any, please accept our apologies and be sure to let us know. Take some time to review the list and read some of these great articles.

Starting Monday February 7th, the University will increase in-person teaching and activities across all our campuses and Faculties, more information can be found at the [U'Together](#) website. Also look to your instructors/coordinators for more specific information.

Welcome back and we look forward to another year together.

Liliana Attisano

For comments/feedback on the newsletter and to provide news to be include in the next issue send an email to biochemistry.office@utoronto.ca. We are always happy to hear from you!



UPCOMING EVENTS

PhD Oral Seminars/Exams

All PhD exams are held online. Interested persons wanting to attend the oral seminar should contact the Students Advisor for approval

Heather Lau's PhD Oral exam: Wednesday March 2, 2022 9:00AM - 12:00PM

PhD Oral Seminar: 9:00-9:45AM
PhD Oral Exam: 10:00AM-12:00PM

Thesis Title: "Strains of self-propagating protein aggregates in the human neurodegenerative diseases"

Members:

Joel Watts (supervisor)
JoAnne McLaurin/Avijit Chakrabarty (supervisory members)

Upcoming Seminar Schedule

February 2022

Feb 2: James Otis (Simon Sharpe) / Fatemeh Mirshafiei Langari (Maynes Lab) – host: Watts

Feb 9: Elaine Thai (JP Julien) / Yifan (Eva) Wang (Alex Palazzo) – host: Pomès

Feb 16: George Connell Speaker – **Chang Liu** – host: Peter Liang

Feb 23: Reading week – no talks

BGSU News

Hello Biochem!

Welcome back everyone! Hope everyone was able to enjoy the holidays and to relax despite the omicron situation. The BGSU, unfortunately, had to cancel our planned pub night/holiday party during December but in January, we had our first virtual event of the year. Thank you everyone who came to our game night on our discord channel! Check out these pictures from one of the games we played. The idea is each player had to draw/write based on the prompt given (telephone but with drawings). A raffle will be drawn for the participants.

Stay tuned for more virtual events coming up! As usual, if you have any ideas for future events, don't hesitate to contact us.

Your BGSU

Facebook: U of T Biochemistry Graduate Student Union – BGSU

Twitter: @yourbgsu

Email: yourbgsu@gmail.com



On January 27th **Fleming Hansen, PhD, FRSC** Professor and Chair of NMR Spectroscopy University College London, UK, gave a **Connell Lecture** on:

"Unleashing the potential for NMR spectroscopy to characterise functions of macromolecules in solution"

COVID-19 planning updates

With the recent updates, please continue to check the below link for the latest information regarding vaccinations, social distancing, masking, and any other policy changes. Guide to Winter Semester: [U'Together](#)

Transcripts News



Hey Biochem, welcome to the new semester! This month we would like to highlight some of the articles that were featured on Transcripts over the past year.

“[An Introduction to Equity, Diversity and Inclusion in STEM](#)” by Alison Mao and Heather Lau

“[Ladies Who Lab--Female Nobel Winners in Chemistry and Medicine](#)” by Mikaela Palandra and Heather Lau

“[Biochemistry Cartoon Series: The War on Antibiotic-Resistant Bacteria](#)” by Chloe Mitchell

“[Model Homo Sapiens](#)” by Kate Jiang

“[From Blue Collar Scientist to Pandemic PI: Getting to know Dr. Spencer Freeman](#)” by Raphaella So

Stay tuned for more cool posts from Transcripts in 2022, and make sure to follow us on Twitter ([@transcriptsblog](#)) and [Instagram](#) or more updates on our work!

Arthur Wynne Gold Medal Awarded to Reinhart Reithmeier



The Canadian Society for Molecular Biosciences (CSMB) Arthur Wynne Gold Medal is presented by the CSMB to an individual who has made a major contribution to molecular biosciences in Canada over their career. [LINK](#)

All CSMB award winners will present lectures at the **65th CSMB Meeting: Membrane Proteins in Health and Disease**, which will take place **April 6 – 10, 2022 in Banff**. More about the meeting here: [65th CSMB Meeting: Membrane Proteins in Health and Disease](#)

[Meeting: Membrane Proteins in Health and Disease](#)

Upcoming Connell Lecture Series:

Wed Feb 16, 2022 @ 12 – 1PM

Chang C. Liu

*Associate Professor of Biomedical Engineering, Chemistry, and Molecular Biology & Biochemistry
Director of the Center for Synthetic Biology University of California Irvine*

“[Genetic Systems for Rapid Mutation, Protein Evolution, and Biology](#)”

VIRTUAL LECTURE. Contact host for details.

Host: Peter Liang
huazhu.liang@mail.utoronto.ca

Wed Mar 9, 2022 @ 12 – 1PM

Michael K. Rosen, Ph.D.

*Investigator, Howard Hughes Medical Institute
Professor and Chair, Dept. of Biophysics UT Southwestern Medical Center*

“[Cell Organization by Liquid-Liquid Phase Separation](#)”

VIRTUAL LECTURE. Contact host for details.

Host: Gaddy Rakhaminov
g.rakhaminov@mail.utoronto.ca



2021 Faculty Publication List

Aboulizadeh, F., Yao, Z., Guan, J., Drecun, L., Pathmanathan, S., Snider, J., Umapathy, G., Kotlyar, M., Jurisica, I., Palmer, R. and Stajlgjar, I. (2021) 'Mapping the Phospho-dependent ALK Interactome to Identify Novel Components in ALK Signaling', *J Mol Biol*, 433(23), pp. 167283.

Abrahão, J., Amaro, B. T., Peres, B. R., Quel, N. G., Aragão, A. Z. B., Morea, E. G. O., Cano, M. I. N., Houry, W. A. and Ramos, C. H. I. (2021) 'Leishmania major RUVBL1 has a hexameric conformation in solution and, in the presence of RUVBL2, forms a heterodimer with ATPase activity', *Arch Biochem Biophys*, 703, pp. 108841.

Ailenberg, M., Kapus, A. and Rotstein, O. D. (2021) 'Improved SARS-CoV-2 PCR detection and genotyping with double-bubble primers', *Biotechniques*, 71(6), pp. 587-597.

Akhshi, T. and Trimble, W. S. (2021) 'A non-canonical Hedgehog pathway initiates ciliogenesis and autophagy', *J Cell Biol*, 220(1).

Al-Ani, A., Toms, D., Sunba, S., Giles, K., Touahri, Y., Schuurmans, C. and Ungrin, M. (2021) 'Scaffold-Free Retinal Pigment Epithelium Microtissues Exhibit Increased Release of PEDF', *Int J Mol Sci*, 22(21).

Alabbas, A., Harvey, E., Kirpalani, A., Teoh, C. W., Mammen, C., Pederson, K., Nemec, R., Davis, T. K., Mathew, A., McCormick, B., Banks, C. A., Frenette, C. H., Clark, D. A., Zimmerman, D., Qirjazi, E., Mac-Way, F., Vorster, H., Antonsen, J. E., Kappel, J. E., MacRae, J. M., Hemmett, J., Tennankore, K. K., Moist, L. M., Copland, M., McCormick, M., Suri, R. S., Singh, R. S., Davison, S. N., Lemaire, M. and Chanchlani, R. (2021a) 'Canadian Association of Paediatric Nephrologists COVID-19 Rapid Response: Home and In-Center Dialysis Guidance', *Can J Kidney Health Dis*, 8, pp. 20543581211053458.

Alabbas, A., Kirpalani, A., Morgan, C., Mammen, C., Licht, C., Phan, V., Wade, A., Harvey, E., Zappitelli, M., Clark, E. G., Hiremath, S., Soroka, S. D., Wald, R., Weir, M. A., Chanchlani, R. and Lemaire, M. (2021b) 'Canadian Association of Paediatric Nephrologists COVID-19 Rapid Response: Guidelines for Management of Acute Kidney Injury in Children', *Can J Kidney Health Dis*, 8, pp. 2054358121990135.

Alderson, T. R. and Kay, L. E. (2021) 'NMR spectroscopy captures the essential role of dynamics in regulating biomolecular function', *Cell*, 184(3), pp. 577-595.

Alizadehgiashi, M., Nemr, C. R., Chekini, M., Pinto Ramos, D., Mittal, N., Ahmed, S. U., Khuu, N., Kelley, S. O. and Kumacheva, E. (2021) 'Multifunctional 3D-Printed Wound Dressings', *ACS Nano*.

Alsowaf, D., Whitney, R., Hewson, S., Jain, P., Chan, V., Kabir, N., Amburgey, K., Noone, D., Lemaire, M., McCoy, B. and Zak, M. (2021) 'The Phenotypic Spectrum of Tuberous Sclerosis Complex: A Canadian Cohort', *Child Neurol Open*, 8, pp. 2329048X211012817.

Andrews, D. W., Judy, K. D., Scott, C. B., Garcia, S., Harshyne, L. A., Kenyon, L., Talekar, K., Flanders, A., Atsina, K. B., Kim, L., Martinez, N., Shi, W., Werner-Wasik, M., Liu, H., Prośniak, M., Curtis, M., Kean, R., Ye, D. Y., Bongiorno, E., Sauma, S., Exley, M. A., Pigott, K. and Hooper, D. C. (2021) 'Phase Ib Clinical Trial of IGV-001 for Patients with Newly Diagnosed Glioblastoma', *Clin Cancer Res*, 27(7), pp. 1912-1922.

Angers, S. (2021) 'Wnt signaling inhibition confers induced synthetic lethality to PARP inhibitors', *EMBO Mol Med*, 13(4), pp. e14002.

Araujo, S. A., Martins, G. H., Quel, N. G., Aragão, A. Z. B., Morea, E. G. O., Borges, J. C., Houry, W. A., Cano, M. I. N. and Ramos, C. H. I. (2021) 'Purification and characterization of a novel and conserved TPR-domain protein that binds both Hsp90 and Hsp70 and is expressed in all developmental stages of Leishmania major', *Biochimie*, 182, pp. 51-60.

Arif, A. A., Huang, Y. H., Freeman, S. A., Atif, J., Dean, P., Lai, J. C. Y., Blanchet, M. R., Wiegand, K. C., McNagny, K. M., Underhill, T. M., Gold, M. R., Johnson, P. and Roskelley, C. D. (2021) 'Inflammation-Induced Metastatic Colonization of the Lung Is Facilitated by Hepatocyte Growth Factor-Secreting Monocyte-Derived Macrophages', *Mol Cancer Res*, 19(12), pp. 2096-2109.

Arshad, H., Patel, Z., Mehrabian, M., Bourkas, M. E. C., Al-Azzawi, Z. A. M., Schmitt-Ulms, G. and Watts, J. C. (2021) 'The aminoglycoside G418 hinders de novo prion infection in cultured cells', *J Biol Chem*, 297(3), pp. 101073.

Atienza, J., Tkachyova, I., Tropak, M., Fan, X. and Schulze, A. (2021) 'Fluorometric coupled enzyme assay for N-sulfotransferase activity of N-deacetylase/N-sulfotransferase (NDST)', *Glycobiology*, 31(9), pp. 1093-1101.

Aynaud, M. M., Hernandez, J. J., Barutcu, S., Braunschweig, U., Chan, K., Pearson, J. D., Trcka, D., Prosser, S. L., Kim, J., Barrios-Rodiles, M., Jen, M., Song, S., Shen, J., Bruce, C., Hazlett, B., Poutanen, S., Attisano, L., Bremner, R., Blencowe, B. J., Mazzulli, T., Han, H., Pelletier, L. and Wrana, J. L. (2021) 'A multiplexed, next generation sequencing platform for high-throughput detection of SARS-CoV-2', *Nat Commun*, 12(1), pp. 1405.

Ayra-Plasencia, J., Ramos-Pérez, C., Santana-Sosa, S., Quevedo, O., Medina-Suárez, S., Matos-Perdomo, E., Zamora-Dorta, M., Brown, G. W., Lisby, M. and Machín, F. (2021) 'Topoisomerase II deficiency leads to a postreplicative structural shift in all *Saccharomyces cerevisiae* chromosomes', *Sci Rep*, 11(1), pp. 14940.

Balakrishnan, A., Belfiore, L., Chu, T. H., Fleming, T., Midha, R., Biernaskie, J. and Schuurmans, C. (2020) 'Insights Into the Role and Potential of Schwann Cells for Peripheral Nerve Repair From Studies of Development and Injury', *Front Mol Neurosci*, 13, pp. 608442.

Bartoszko, J., Li, H., Fitzgerald, J., Ho, L. T. S., Serrick, C., Kahr, W. H. A., Gross, P. L. and Karkouti, K. (2021) 'The association of thrombin generation with bleeding outcomes in cardiac surgery: a prospective observational study', *Can J Anaesth*.

Bateman, T. J., Shah, M., Ho, T. P., Shin, H. E., Pan, C., Harris, G., Fegan, J. E., Islam, E. A., Ahn, S. K., Hooda, Y., Gray-Owen, S. D., Chen, W. and Moraes, T. F. (2021) 'A Slam-dependent hemophore contributes to heme acquisition in the bacterial pathogen *Acinetobacter baumannii*', *Nat Commun*, 12(1), pp. 6270.

Beckerman, M., Harel, C., Michael, I., Klip, A., Bilan, P. J., Gallagher, E. J., LeRoith, D., Lewis, E. C., Karnieli, E. and Levenberg, S. (2021) 'GLUT4-overexpressing engineered muscle constructs as a therapeutic platform to normalize glycemia in diabetic mice', *Sci Adv*, 7(42), pp. eabg3947.

Berg, M. D., Zhu, Y., Ruiz, B. Y., Loll-Krippelber, R., Isaacson, J., San Luis, B. J., Genereaux, J., Boone, C., Villén, J., Brown, G. W. and Brandl, C. J. (2021) 'The amino acid substitution affects cellular response to mistranslation', *G3 (Bethesda)*, 11(10).

Bickers, S. C., Benlekbir, S., Rubinstein, J. L. and Kanelis, V. (2021) 'Structure of Ycf1p reveals the transmembrane domain TMD0 and the regulatory region of ABC transporters', *Proc Natl Acad Sci U S A*, 118(21).

Blanchette, V. S., Zunino, L., Grassmann, V., Barnes, C., Carcao, M. D., Curtin, J., Jackson, S., Khoo, L., Komrska, V., Lillicrap, D., Morfini, M., Romanova, G., Stephens, D., Zapotocka, E., Rand, M. L. and Blatny, J. (2021) 'A Practical, One-Clinic Visit Protocol for Pharmacokinetic Profile Generation with the ADVATE myPKFit Dosing Tool in Severe Hemophilia A Subjects', *Thromb Haemost*, 121(10), pp. 1326-1336.

Blondel-Tepaz, E., Leverage, M., Sokrat, B., Paradis, J. S., Kopic, M., Saha, K., Auffray, C., Lima-Fernandes, E., Zamborlini, A., Poupon, A., Gaboury, L., Findlay, J., Baillie, G. S., Enslin, H., Bouvier, M., Angers, S., Marullo, S. and Scott, M. G. H. (2021) 'The RanBP2/RanGAP1-SUMO complex gates β -arrestin2 nuclear entry to regulate the Mdm2-p53 signaling axis', *Oncogene*, 40(12), pp. 2243-2257.

Boddy, K. C., Zhu, H., D'Costa, V. M., Xu, C., Beyrakhova, K., Cygler, M., Grinstein, S., Coyaud, E., Laurent, E. M. N., St-Germain, J., Raught, B. and Brumell, J. H. (2021) 'Salmonella effector SopD promotes plasma membrane scission by inhibiting Rab10', *Nat Commun*, 12(1), pp. 4707.

Bohn, M. K. and Adeli, K. (2021) 'Physiological and metabolic adaptations in pregnancy: importance of trimester-specific reference intervals to investigate maternal health and complications', *Crit Rev Clin Lab Sci*, pp. 1-17.

Bohn, M. K., Hall, A., Wilson, S., Henderson, T. and Adeli, K. (2021a) 'Pediatric Reference Intervals for Critical Point-of-Care Whole Blood Assays in the CALIPER Cohort of Healthy Children and Adolescents', *Am J Clin Pathol*, 156(6), pp. 1030-1037.

Bohn, M. K., Hall, A., Wilson, S., Taher, J., Sepiashvili, L. and Adeli, K. (2021b) 'Pediatric evaluation of clinical specificity and sensitivity of SARS-CoV-2 IgG and IgM serology assays', *Clin Chem Lab Med*, 59(6), pp. e235-e237.

Bohn, M. K., Horn, P., League, D., Steele, P., Hall, A. and Adeli, K. (2021c) 'Pediatric reference intervals for endocrine markers and fertility hormones in healthy children and adolescents on the Siemens Healthineers Atellica immunoassay system', *Clin Chem Lab Med*, 59(8), pp. 1421-1430.

Bohn, M. K., Horn, P., League, D., Steele, P., Hall, A. and Adeli, K. (2022) 'Pediatric reference intervals for 32 routine biochemical markers using the siemens healthineers atellica® CH assays in healthy children and adolescents', *Clin Biochem*, 99, pp. 69-77.

Bohn, M. K., Lippi, G., Horvath, A. R., Erasmus, R., Grimmler, M., Gramegna, M., Mancini, N., Mueller, R., Rawlinson, W. D., Menezes, M. E., Patru, M. M., Rota, F., Sethi, S., Singh, K., Yuen, K. Y., Wang, C. B., Adeli, K. and COVID-19, I. T. o. (2021d) 'IFCC interim guidelines on rapid point-of-care antigen testing for SARS-CoV-2 detection in asymptomatic and symptomatic individuals', *Clin Chem Lab Med*, 59(9), pp. 1507-1515.

Bohn, M. K., Steele, S., Hall, A., Poonia, J., Jung, B. and Adeli, K. (2021e) 'Cardiac Biomarkers in Pediatrics: An Undervalued Resource', *Clin Chem*, 67(7), pp. 947-958.

Bohn, M. K., Wilson, S., Hall, A. and Adeli, K. (2021f) 'Pediatric reference interval verification for endocrine and fertility hormone assays on the Abbott Alinity system', *Clin Chem Lab Med*, 59(10), pp. 1680-1687.

Bohn, M. K., Wilson, S., Hall, A., Massamiri, Y., Randell, E. and Adeli, K. (2021g) 'Pediatric reference interval verification for common biochemical assays on the Abbott Alinity system', *Clin Chem Lab Med*, 59(9), pp. 1554-1562.

Bolton, C., Smillie, C. S., Pandey, S., Elmentaite, R., Wei, G., Argmann, C., Aschenbrenner, D., James, K. R., McGovern, D. P. B., Macchi, M., Cho, J., Shouval, D. S., Kammermeier, J., Koletzko, S., Bagalopal, K., Capitani, M., Cavounidis, A., Pires, E., Weidinger, C., McCullagh, J., Arkwright, P. D., Haller, W., Siegmund, B., Peters, L., Jostins, L., Travis, S. P. L., Anderson, C. A., Snapper, S., Klein, C., Schadt, E., Zilbauer, M., Xavier, R., Teichmann, S., Muise, A. M., Regev, A. and Uhlig, H. H. (2021) 'An Integrated Taxonomy for Monogenic Inflammatory Bowel Disease', *Gastroenterology*.

Borges, J. P., Mekhail, K., Fairn, G. D., Antonescu, C. N. and Steinberg, B. E. (2021) 'Modulation of Pathological Pain by Epidermal Growth Factor Receptor', *Front Pharmacol*, 12, pp. 642820.

Bosa, L., Batura, V., Colavito, D., Fiedler, K., Gaio, P., Guo, C., Li, Q., Marzollo, A., Mescoli, C., Nambu, R., Pan, J., Perilongo, G., Warner, N., Zhang, S., Kotlarz, D., Klein, C., Snapper, S. B., Walters, T. D., Leon, A., Griffiths, A. M., Cananzi, M. and Muise, A. M. (2021) 'Novel CARMIL2 loss-of-function variants are associated with pediatric inflammatory bowel disease', *Sci Rep*, 11(1), pp. 5945.

- Bourque, D. K., Mellin-Sanchez, L. E., Bullivant, G., Cruz, V., Feigenbaum, A., Hewson, S., Raiman, J., Schulze, A., Siriwardena, K. and Mercimek-Andrews, S. (2021) 'Outcomes of patients with cobalamin C deficiency: A single center experience', *JIMD Rep*, 57(1), pp. 102-114.
- Boutry, M. and Kim, P. K. (2021) 'ORP1L mediated PI(4)P signaling at ER-lysosome-mitochondrion three-way contact contributes to mitochondrial division', *Nat Commun*, 12(1), pp. 5354.
- Brill, J. A. and Wilde, A. (2021) 'A lipid primes the final cut in dividing cells', *Science*, 374(6573), pp. 1318-1319.
- Brown, G. W. and Andrews, B. (2021) 'Setting molecular traps in yeast for identification of anticancer drug targets', *Proc Natl Acad Sci U S A*, 118(18).
- Bélondrade, M., Nicot, S., Mayran, C., Bruyere-Ostells, L., Almela, F., Di Bari, M. A., Levavasseur, E., Watts, J. C., Fournier-Wirth, C., Lehmann, S., Haik, S., Nonno, R. and Bougard, D. (2021) 'Sensitive protein misfolding cyclic amplification of sporadic Creutzfeldt-Jakob disease prions is strongly seed and substrate dependent', *Sci Rep*, 11(1), pp. 4058.
- Calvelo, V. Y., Crisante, D., Elliot, M. and Nodwell, J. R. (2021) 'The ARC2 response in', *Microbiology (Reading)*, 167(5).
- Canton, J., Fairn, G. D. and Jaumouillé, V. (2021) 'Editorial: Phagocytes in Immunity: Linking Material Internalization to Immune Responses and Therapeutic Strategies', *Front Immunol*, 12, pp. 772256.
- Cao, W. X., Karaiskakis, A., Lin, S., Angers, S. and Lipshitz, H. D. (2021) 'The F-box protein Bard (CG14317) targets the Smaug RNA-binding protein for destruction during the Drosophila maternal-to-zygotic transition', *Genetics*.
- Chadwick, J. W., Fine, N., Khoury, W., Tasevski, N., Sun, C. X., Boroumand, P., Klip, A. and Glogauer, M. (2021) 'Tissue-specific murine neutrophil activation states in health and inflammation', *J Leukoc Biol*, 110(1), pp. 187-195.
- Chadwick, S. R., Grinstein, S. and Freeman, S. A. (2021) 'From the inside out: Ion fluxes at the centre of endocytic traffic', *Curr Opin Cell Biol*, 71, pp. 77-86.
- Chadwick, S. R., Wu, J. Z. and Freeman, S. A. (2021) 'Solute Transport Controls Membrane Tension and Organellar Volume', *Cell Physiol Biochem*, 55(S1), pp. 1-24.
- Chan, P. W. Y., Chakrabarti, N., Ing, C., Halgas, O., To, T. K. W., Wälti, M., Petit, A. P., Tran, C., Savchenko, A., Yakunin, A. F., Edwards, E. A., Pomès, R. and Pai, E. F. (2022) 'Defluorination Capability of I-2-Haloacid Dehalogenases in the HAD-Like Hydrolase Superfamily Correlates with Active Site Compactness', *Chembiochem*, 23(1), pp. e202100414.
- Chen, A., Ulloa Severino, L., Panagiotou, T. C., Moraes, T. F., Yuen, D. A., Lavoie, B. D. and Wilde, A. (2021) 'Inhibition of polar actin assembly by astral microtubules is required for cytokinesis', *Nat Commun*, 12(1), pp. 2409.
- Chidiac, R., Abedin, M., Macleod, G., Yang, A., Thibeault, P. E., Blazer, L. L., Adams, J. J., Zhang, L., Roehrich, H., Jo, H. N., Seshagiri, S., Sidhu, S. S., Junge, H. J. and Angers, S. (2021) 'A Norrin/Wnt surrogate antibody stimulates endothelial cell barrier function and rescues retinopathy', *EMBO Mol Med*, 13(7), pp. e13977.
- Chin, D., Deecker, S. R., Ensminger, A. W. and Heinrichs, D. E. (2021a) 'Draft Genome Sequence of Staphylococcus chromogenes ATCC 43764, a Coagulase-Negative Staphylococcus Strain with Antibacterial Potential', *Microbiol Resour Announc*, 10(22), pp. e0049221.

Chin, D., Goncheva, M. I., Flannagan, R. S., Deecker, S. R., Guariglia-Oropeza, V., Ensminger, A. W. and Heinrichs, D. E. (2021b) 'Coagulase-negative staphylococci release a purine analog that inhibits *Staphylococcus aureus* virulence', *Nat Commun*, 12(1), pp. 1887.

Clifford, A., Das, J., Yousefi, H., Mahmud, A., Chen, J. B. and Kelley, S. O. (2021) 'Strategies for Biomolecular Analysis and Continuous Physiological Monitoring', *J Am Chem Soc*, 143(14), pp. 5281-5294.

Codron, P., Letournel, F., Marty, S., Renaud, L., Bodin, A., Duchesne, M., Verny, C., Lenaers, G., Duyckaerts, C., Julien, J. P., Cassereau, J. and Chevrollier, A. (2021) 'Stochastic Optical Reconstruction Microscopy (STORM) reveals the nanoscale organization of pathological aggregates in human brain', *Neuropathol Appl Neurobiol*, 47(1), pp. 127-142.

Cole, G. B., Bateman, T. J. and Moraes, T. F. (2021) 'The surface lipoproteins of gram-negative bacteria: Protectors and foragers in harsh environments', *J Biol Chem*, 296, pp. 100147.

Coles, B. L. K., Labib, M., Poudineh, M., Innes, B. T., Belair-Hickey, J., Gomis, S., Wang, Z., Bader, G. D., Sargent, E. H., Kelley, S. O. and van der Kooy, D. (2021) 'A microfluidic platform enables comprehensive gene expression profiling of mouse retinal stem cells', *Lab Chip*, 21(22), pp. 4464-4476.

Cunning, R., Parker, K. E., Johnson-Sapp, K., Karp, R. F., Wen, A. D., Williamson, O. M., Bartels, E., D'Alessandro, M., Gilliam, D. S., Hanson, G., Levy, J., Lirman, D., Maxwell, K., Million, W. C., Moulding, A. L., Moura, A., Muller, E. M., Nedimyer, K., Reckenbeil, B., van Hooijdonk, R., Dahlgren, C., Kenkel, C., Parkinson, J. E. and Baker, A. C. (2021) 'Census of heat tolerance among Florida's threatened staghorn corals finds resilient individuals throughout existing nursery populations', *Proc Biol Sci*, 288(1961), pp. 20211613.

Dacquay, L. C., Tsang, D., Chan, D., Parkinson, J., Philpott, D. J. and McMillen, D. R. (2021) 'E.coli Nissle increases transcription of flagella assembly and formate hydrogenlyase genes in response to colitis', *Gut Microbes*, 13(1), pp. 1994832.

Dahal, S., Cheng, R., Cheung, P. K., Been, T., Mally, R., Geng, M., Manianis, S., Shkreta, L., Jahanshahi, S., Toutant, J., Chan, R., Park, S., Brockman, M. A., Babu, M., Mubareka, S., Mossman, K., Banerjee, A., Gray-Owen, S., Brown, M., Houry, W. A., Chabot, B., Grierson, D. and Cochrane, A. (2021) 'The Thiazole-5-Carboxamide GPS491 Inhibits HIV-1, Adenovirus, and Coronavirus Replication by Altering RNA Processing/Accumulation', *Viruses*, 14(1).

Dai, D. L., Hasan, S. M. N., Woollard, G., Abbas, Y. M., Bueler, S. A., Julien, J. P., Rubinstein, J. L. and Mazhab-Jafari, M. T. (2021) 'Structural Characterization of Endogenous Tuberos Sclerosis Protein Complex Revealed Potential Polymeric Assembly', *Biochemistry*, 60(23), pp. 1808-1821.

Das, J., Gomis, S., Chen, J. B., Yousefi, H., Ahmed, S., Mahmud, A., Zhou, W., Sargent, E. H. and Kelley, S. O. (2021) 'Reagentless biomolecular analysis using a molecular pendulum', *Nat Chem*, 13(5), pp. 428-434.

Deecker, S. R., Urbanus, M. L., Nicholson, B. and Ensminger, A. W. (2021) 'Legionella pneumophila CRISPR-Cas Suggests Recurrent Encounters with One or More Phages in the Family', *Appl Environ Microbiol*, 87(17), pp. e0046721.

Derichs, N., Taylor-Cousar, J. L., Davies, J. C., Fajac, I., Tullis, E., Nazareth, D., Downey, D. G., Rosenbluth, D., Malfroot, A., Saunders, C., Jensen, R., Solomon, G. M., Vermeulen, F., Kaiser, A., Willmann, S., Saleh, S., Droebner, K., Sandner, P., Bear, C. E., Hoffmann, A., Ratjen, F., Rowe, S. M. and Group, R.-C. S. (2021) 'Riociguat for the treatment of Phe508del homozygous adults with cystic fibrosis', *J Cyst Fibros*, 20(6), pp. 1018-1025.

Di Trani, J. M., Liu, Z., Whitesell, L., Brzezinski, P., Cowen, L. E. and Rubinstein, J. L. (2022) 'Rieske head domain dynamics and indazole-derivative inhibition of *Candida albicans* complex III', *Structure*, 30(1), pp. 129-138.e4.

Diaz, G. A., Schulze, A., McNutt, M. C., Leao-Teles, E., Merritt, J. L., 2nd, Enns, G. M., Batziros, S., Bannick, A., Zori, R. T., Sloan, L. S., Potts, S. L., Bubb, G. and Quinn, A. G. (2021) 'Clinical effect and safety profile of pegzilarginase in patients with arginase 1 deficiency', *J Inherit Metab Dis*, 44(4), pp. 847-856.

Ditlev, J. A. (2021a) 'Membrane-associated phase separation: organization and function emerge from a two-dimensional milieu', *J Mol Cell Biol*, 13(4), pp. 319-324.

Ditlev, J. A. (2021b) 'Voices of the new generation: establishing yourself as a PI in a competitive field', *Nat Rev Mol Cell Biol*, 22(11), pp. 710.

Dixon, C. L. and Fairn, G. D. (2021) 'S-palmitoylation of NOD2 controls its localization to the plasma membrane', *J Lipid Res*, 62, pp. 100097.

Dixon, C. L., Mekhail, K. and Fairn, G. D. (2021) 'Examining the Underappreciated Role of', *Front Immunol*, 12, pp. 659533.

Dou, W., Wang, L., Malhi, M., Liu, H., Zhao, Q., Plakhotnik, J., Xu, Z., Huang, Z., Simmons, C. A., Maynes, J. T. and Sun, Y. (2021) 'A microdevice platform for characterizing the effect of mechanical strain magnitudes on the maturation of iPSC-Cardiomyocytes', *Biosens Bioelectron*, 175, pp. 112875.

Doust, J. A., Bell, K. J. L., Leeflang, M. M. G., Dinnes, J., Lord, S. J., Mallett, S., van de Wijgert, J. H. H. M., Sandberg, S., Adeli, K., Deeks, J. J., Bossuyt, P. M. and Horvath, A. R. (2021) 'Guidance for the design and reporting of studies evaluating the clinical performance of tests for present or past SARS-CoV-2 infection', *BMJ*, 372, pp. n568.

Dover, S., Stephens, S., Schneiderman, J. E., Pullenayegum, E., Wells, G. D., Levy, D. M., Marcuz, J. A., Whitney, K., Schulze, A., Tein, I. and Feldman, B. M. (2021) 'The Effect of Creatine Supplementation on Muscle Function in Childhood Myositis: A Randomized, Double-blind, Placebo-controlled Feasibility Study', *J Rheumatol*, 48(3), pp. 434-441.

Dumas, M. P., Xia, S., Bear, C. E. and Ratjen, F. (2021) 'Perspectives on the translation of in-vitro studies to precision medicine in Cystic Fibrosis', *EBioMedicine*, 73, pp. 103660.

Duong, A., Evstratova, A., Sivitilli, A., Hernandez, J. J., Gosio, J., Wahedi, A., Sondheimer, N., Wrana, J. L., Beaulieu, J. M., Attisano, L. and Andreatza, A. C. (2021) 'Characterization of mitochondrial health from human peripheral blood mononuclear cells to cerebral organoids derived from induced pluripotent stem cells', *Sci Rep*, 11(1), pp. 4523.

Eisenberg, S., Haimov, E., Walpole, G. F. W., Plumb, J., Kozlov, M. M. and Grinstein, S. (2021) 'Mapping the electrostatic profiles of cellular membranes', *Mol Biol Cell*, 32(3), pp. 301-310.

Ereño-Orbea, J., Liu, X., Sicard, T., Kucharska, I., Li, W., Borovsky, D., Cui, H., Feng, Y., Dimitrov, D. S. and Julien, J. P. (2021) 'Structural details of monoclonal antibody m971 recognition of the membrane-proximal domain of CD22', *J Biol Chem*, 297(2), pp. 100966.

Fitzpatrick, A., Andreopoulos, S. and Freedman, L. (2021) 'Enhancing science literacy and communication among the next generation of scientists in an online learning environment', *Biochem Mol Biol Educ*, 49(6), pp. 856-858.

Forman-Kay, J. D., Ditlev, J. A., Nosella, M. L. and Lee, H. O. (2022) 'What are the distinguishing features and size requirements of biomolecular condensates and their implications for RNA-containing condensates?', *RNA*, 28(1), pp. 36-47.

- Forrester, J. D., Colling, K. P., Diaz, J. J., Faliks, B., Kim, P. K., Tessier, J. M., Tung, J. and Huston, J. M. (2021) 'Surgical Infection Society Guidelines for Total Abdominal Colectomy versus Diverting Loop Ileostomy with Antegrade Intra-Colonic Lavage for the Surgical Management of Severe or Fulminant, Non-Perforated', *Surg Infect (Larchmt)*.
- Freeman, S. and Grinstein, S. (2021) 'Promoters and Antagonists of Phagocytosis: A Plastic and Tunable Response', *Annu Rev Cell Dev Biol*, 37, pp. 89-114.
- Frendo-Cumbo, S., Tokarz, V. L., Bilan, P. J., Brumell, J. H. and Klip, A. (2021) 'Communication Between Autophagy and Insulin Action: At the Crux of Insulin Action-Insulin Resistance?', *Front Cell Dev Biol*, 9, pp. 708431.
- Fujiwara, Y., Kawamura, I., Reimer, J. D. and Parkinson, J. E. (2021) 'Zoantharian Endosymbiont Community Dynamics During a Stress Event', *Front Microbiol*, 12, pp. 674026.
- Gai, N., Aoyama, K., Faraoni, D., Goldenberg, N. M., Levin, D. N., Maynes, J. T., McVey, M. J., Munshey, F., Siddiqui, A., Switzer, T. and Steinberg, B. E. (2021) 'General medical publications during COVID-19 show increased dissemination despite lower validation', *PLoS One*, 16(2), pp. e0246427.
- Gai, N., Maynes, J. T. and Aoyama, K. (2021) 'Unique challenges in pediatric anesthesia created by COVID-19', *J Anesth*, 35(3), pp. 345-350.
- Galati, E., Bosio, M. C., Novarina, D., Chiara, M., Bernini, G. M., Mozzarelli, A. M., García-Rubio, M. L., Gómez-González, B., Aguilera, A., Carzaniga, T., Todisco, M., Bellini, T., Nava, G. M., Frigè, G., Sertic, S., Horner, D. S., Baryshnikova, A., Manzari, C., D'Erchia, A. M., Pesole, G., Brown, G. W., Muzi-Falconi, M. and Lazzaro, F. (2021) 'VID22 counteracts G-quadruplex-induced genome instability', *Nucleic Acids Res*, 49(22), pp. 12785-12804.
- Gao, W., Vaezzadeh, N., Chow, K., Chen, H., Lavender, P., Jeronimo, M. D., McAllister, A., Laselva, O., Jiang, J. X., Gage, B. K., Ogawa, S., Ramchandran, A., Bear, C. E., Keller, G. M. and Günther, A. (2021) 'One-Step Formation of Protein-Based Tubular Structures for Functional Devices and Tissues', *Adv Healthc Mater*, 10(8), pp. e2001746.
- Gebregiworgis, T., Kano, Y., St-Germain, J., Radulovich, N., Udaskin, M. L., Mentis, A., Huang, R., Poon, B. P. K., He, W., Valencia-Sama, I., Robinson, C. M., Huestis, M., Miao, J., Yeh, J. J., Zhang, Z. Y., Irwin, M. S., Lee, J. E., Tsao, M. S., Raught, B., Marshall, C. B., Ohh, M. and Ikura, M. (2021) 'The Q61H mutation decouples KRAS from upstream regulation and renders cancer cells resistant to SHP2 inhibitors', *Nat Commun*, 12(1), pp. 6274.
- Ghaffari, S., Jang, E., Naderinabi, F., Sanwal, R., Khosraviani, N., Wang, C., Steinberg, B. E., Goldenberg, N. M., Ikeda, J. and Lee, W. L. (2021) 'Endothelial HMGB1 Is a Critical Regulator of LDL Transcytosis via an SREBP2-SR-BI Axis', *Arterioscler Thromb Vasc Biol*, 41(1), pp. 200-216.
- Ghasempour, S. and Freeman, S. A. (2021) 'The glycocalyx and immune evasion in cancer', *FEBS J*.
- Ghazizadeh, H., Bohn, M. K., Yaghooti-Khorasani, M., Ghaffarian-Zirak, R., Valizadeh, M., Saberi-Karimian, M., Safarian, H., Kamel-Khodabandeh, A., Zare-Feyzabadi, R., Timar, A., Mohammadi-Bajgiran, M., Oladi, M. R., Gachpazan, M., Rohban, M., Esmaily, H., Ferns, G. A., Adeli, K. and Ghayour-Mobarhan, M. (2021a) 'Age and sex-specific reference intervals for prooxidant-antioxidant balance, anti-heat-shock protein 27 (anti-hsp27), and routine laboratory tests in the middle-aged adult population', *Biotechnol Appl Biochem*.
- Ghazizadeh, H., Kathryn Bohn, M., Yaghooti-Khorasani, M., Kamel Khodabandeh, A., Zare-Feyzabadi, R., Timar, A., Mohammadi-Bajgiran, M., Oladi, M. R., Rohban, M., Esmaily, H., Ferns, G. A., Adeli, K. and Ghayour-Mobarhan, M. (2021b) 'Age- and sex-specific reference intervals for superoxide dismutase enzyme and several minerals in a healthy adult cohort', *J Clin Lab Anal*, 35(9), pp. e23897.
- Go, C. D., Knight, J. D. R., Rajasekharan, A., Rathod, B., Hesketh, G. G., Abe, K. T., Youn, J. Y., Samavarchi-Tehrani, P., Zhang, H., Zhu, L. Y., Popiel, E., Lambert, J. P., Coyaud, É., Cheung, S. W. T., Rajendran, D., Wong, C. J.,

Antonicka, H., Pelletier, L., Palazzo, A. F., Shoubridge, E. A., Raught, B. and Gingras, A. C. (2021) 'A proximity-dependent biotinylation map of a human cell', *Nature*, 595(7865), pp. 120-124.

Goh, E. S., Stavropoulos, D. J. and Adeli, K. (2021) 'Defining and Reporting on Critical Values in Genetics: A Laboratory Survey', *J Appl Lab Med*, 6(5), pp. 1299-1304.

Grozavu, I., Stuart, S., Lyakisheva, A., Yao, Z., Pathmanathan, S., Ohh, M. and Stagljar, I. (2022) 'D154Q Mutation does not Alter KRAS Dimerization', *J Mol Biol*, 434(2), pp. 167392.

Grudzinska Pechhacker, M. K., Jacobson, S. G., Drack, A. V., Scipio, M. D., Strubbe, I., Pfeifer, W., Duncan, J. L., Dollfus, H., Goetz, N., Muller, J., Vincent, A. L., Aleman, T. S., Tumber, A., Van Cauwenbergh, C., De Baere, E., Bedoukian, E., Leroy, B. P., Maynes, J. T., Munier, F. L., Tavares, E., Saleh, E., Vincent, A. and Heon, E. (2021) 'Comparative Natural History of Visual Function From Patients With Biallelic Variants in BBS1 and BBS10', *Invest Ophthalmol Vis Sci*, 62(15), pp. 26.

Guilhamon, P., Chesnelong, C., Kushida, M. M., Nikolic, A., Singhal, D., MacLeod, G., Madani Tonekaboni, S. A., Cavalli, F. M., Arlidge, C., Rajakulendran, N., Rastegar, N., Hao, X., Hassam, R., Smith, L. J., Whetstone, H., Coutinho, F. J., Nadorp, B., Ellestad, K. I., Luchman, H. A., Chan, J. A., Shoichet, M. S., Taylor, M. D., Haibe-Kains, B., Weiss, S., Angers, S., Gallo, M., Dirks, P. B. and Lupien, M. (2021) 'Single-cell chromatin accessibility profiling of glioblastoma identifies an invasive cancer stem cell population associated with lower survival', *Elife*, 10.

Guo, H., Courbon, G. M., Bueler, S. A., Mai, J., Liu, J. and Rubinstein, J. L. (2021) 'Structure of mycobacterial ATP synthase bound to the tuberculosis drug bedaquiline', *Nature*, 589(7840), pp. 143-147.

Hall, A., Bohn, M. K., Wilson, S., Higgins, V. and Adeli, K. (2021) 'Continuous reference intervals for 19 endocrine, fertility, and immunochemical markers in the CALIPER cohort of healthy children and adolescents', *Clin Biochem*, 94, pp. 35-41.

Hamid, J. S., Atenafu, E. G., Borkhoff, C. M., Birken, C. S., Maguire, J. L., Bohn, M. K., Adeli, K., Abdelhaleem, M. and Parkin, P. C. (2021) 'Reference intervals for hemoglobin and mean corpuscular volume in an ethnically diverse community sample of Canadian children 2 to 36 months', *BMC Pediatr*, 21(1), pp. 241.

Han, S., Okawa, S., Wilkinson, G. A., Ghazale, H., Adnani, L., Dixit, R., Tavares, L., Faisal, I., Brooks, M. J., Cortay, V., Zinyk, D., Sivitilli, A., Li, S., Malik, F., Illytskyy, Y., Angarica, V. E., Gao, J., Chinchalongporn, V., Oproescu, A. M., Vasan, L., Touahri, Y., David, L. A., Raharjo, E., Kim, J. W., Wu, W., Rahmani, W., Chan, J. A., Kovalchuk, I., Attisano, L., Kurrasch, D., Dehay, C., Swaroop, A., Castro, D. S., Biernaskie, J., Del Sol, A. and Schuurmans, C. (2021) 'Proneural genes define ground-state rules to regulate neurogenic patterning and cortical folding', *Neuron*, 109(18), pp. 2847-2863.e11.

Harkness, R. W., Toyama, Y., Ripstein, Z. A., Zhao, H., Sever, A. I. M., Luan, Q., Brady, J. P., Clark, P. L., Schuck, P. and Kay, L. E. (2021) 'Competing stress-dependent oligomerization pathways regulate self-assembly of the periplasmic protease-chaperone DegP', *Proc Natl Acad Sci U S A*, 118(32).

He, F., Yang, R., Huang, X., Tian, Y., Pei, X., Bohn, M. K., Zou, L., Wang, Y., Li, H., Wang, T., Gu, M., Jiang, T., Chen, X., Zou, H., Wei, H., Tian, W., Tang, T., Adeli, K. and Wang, Z. (2021a) 'Reference Standards for Newborn Screening of Metabolic Disorders by Tandem Mass Spectrometry: A Nationwide Study on Millions of Chinese Neonatal Populations', *Front Mol Biosci*, 8, pp. 719866.

He, S., Stone, T. A. and Deber, C. M. (2021) 'Uncoupling Amphipathicity and Hydrophobicity: Role of Charge Clustering in Membrane Interactions of Cationic Antimicrobial Peptides', *Biochemistry*, 60(34), pp. 2586-2592.

He, W., Batty-Stuart, S., Lee, J. E. and Ohh, M. (2021b) 'HIF-1 α Hydroxyprolines Modulate Oxygen-Dependent Protein Stability Via Single VHL Interface With Comparable Effect on Ubiquitination Rate', *J Mol Biol*, 433(22), pp. 167244.

Higgins, V., White-Al Habeeb, N., Venner, A. A., Bailey, D., Collier, C., Adeli, K. and Harmonisation, C. S. o. C. C. W. G. o. R. I. (2021) 'A Snapshot of Lipid-Reporting Practices in Canadian Clinical Laboratories: An Urgent Need for Harmonisation', *Can J Cardiol*, 37(6), pp. 933-937.

Hogarth, K., Vanama, R. B., Stratmann, G. and Maynes, J. T. (2021) 'Singular and short-term anesthesia exposure in the developing brain induces persistent neuronal changes consistent with chronic neurodegenerative disease', *Sci Rep*, 11(1), pp. 5673.

Horowitz, J. E., Warner, N., Staples, J., Crowley, E., Gosalia, N., Murchie, R., Van Hout, C., Fiedler, K., Welch, G., King, A. K., Reid, J. G., Overton, J. D., Baras, A., Shuldiner, A. R., Griffiths, A., Gottesman, O., Muise, A. M. and Gonzaga-Jauregui, C. (2021) 'Mutation spectrum of NOD2 reveals recessive inheritance as a main driver of Early Onset Crohn's Disease', *Sci Rep*, 11(1), pp. 5595.

Huang, R., Huestis, M., Gan, E. S., Ooi, E. E. and Ohh, M. (2021a) 'Hypoxia and viral infectious diseases', *JCI Insight*, 6(7).

Huang, R., Meens, J., Yuzwa, S., Ailles, L., Ohh, M. and Robinson, C. M. (2021b) 'Side population analysis in clear cell renal cell carcinoma', *Biochem Biophys Res Commun*, 585, pp. 196-202.

Hwang, S., Pan, C., Garcia, B., Davidson, A. R., Moraes, T. F. and Maxwell, K. L. (2021) 'Structural and Mechanistic Insight into CRISPR-Cas9 Inhibition by Anti-CRISPR Protein AcrIIIC4', *J Mol Biol*, 434(5), pp. 167420.

Ikeda, J., Scipione, C. A., Hyduk, S. J., Althagafi, M. G., Atif, J., Dick, S. A., Rajora, M., Jang, E., Emoto, T., Murakami, J., Ikeda, N., Ibrahim, H. M., Polenz, C. K., Gao, X., Tai, K., Jongstra-Bilen, J., Nakashima, R., Epelman, S., Robbins, C. S., Zheng, G., Lee, W. L., MacParland, S. A. and Cybulsky, M. I. (2021) 'Radiation Impacts Early Atherosclerosis by Suppressing Intimal LDL Accumulation', *Circ Res*, 128(4), pp. 530-543.

Imbert, P. R. C., Saric, A., Pedram, K., Bertozzi, C. R., Grinstein, S. and Freeman, S. A. (2021) 'An Acquired and Endogenous Glycocalyx Forms a Bidirectional "Don't Eat" and "Don't Eat Me" Barrier to Phagocytosis', *Curr Biol*, 31(1), pp. 77-89.e5.

Iorio, C., Rourke, J. L., Wells, L., Sakamaki, J. I., Moon, E., Hu, Q., Kin, T. and Screaton, R. A. (2021) 'Silencing the G-protein coupled receptor 3-salt inducible kinase 2 pathway promotes human β cell proliferation', *Commun Biol*, 4(1), pp. 907.

Jain, A., Huang, R., Lee, J., Jawa, N., Lim, Y. J., Guron, M., Abish, S., Boutros, P. C., Brudno, M., Carleton, B., Cuvelier, G. D. E., Gunaratnam, L., Ho, C., Adeli, K., Kuruvilla, S., Lajoie, G., Liu, G., Nathan, P. C., Rod Rassekh, S., Rieder, M., Waikar, S. S., Welch, S. A., Weir, M. A., Winkvist, E., Wishart, D. S., Zorzi, A. P., Blydt-Hansen, T., Zappitelli, M. and Urquhart, B. (2021) 'A Canadian Study of Cisplatin Metabolomics and Nephrotoxicity (ACCENT): A Clinical Research Protocol', *Can J Kidney Health Dis*, 8, pp. 20543581211057708.

Jaqaman, K. and Ditlev, J. A. (2021) 'Biomolecular condensates in membrane receptor signaling', *Curr Opin Cell Biol*, 69, pp. 48-54.

Jiang, D., Banh, R., Gamal El-Din, T. M., Tonggu, L., Lenaeus, M. J., Pomès, R., Zheng, N. and Catterall, W. A. (2021a) 'Open-state structure and pore gating mechanism of the cardiac sodium channel', *Cell*, 184(20), pp. 5151-5162.e11.

Jiang, D., Tonggu, L., Gamal El-Din, T. M., Banh, R., Pomès, R., Zheng, N. and Catterall, W. A. (2021b) 'Structural basis for voltage-sensor trapping of the cardiac sodium channel by a deathstalker scorpion toxin', *Nat Commun*, 12(1), pp. 128.

Jiang, J. X., Wellhauser, L., Laselva, O., Utkina, I., Bozoky, Z., Gunawardena, T., Ngan, Z., Xia, S., Di Paola, M., Eckford, P. D. W., Ratjen, F., Moraes, T. J., Parkinson, J., Wong, A. P. and Bear, C. E. (2021c) 'A new platform for

high-throughput therapy testing on iPSC-derived lung progenitor cells from cystic fibrosis patients', *Stem Cell Reports*, 16(11), pp. 2825-2837.

Ju, Y., Ben-David, Y., Rotin, D. and Zacksenhaus, E. (2021) 'Inhibition of eEF2K synergizes with glutaminase inhibitors or 4EBP1 depletion to suppress growth of triple-negative breast cancer cells', *Sci Rep*, 11(1), pp. 9181.

Kay, L. E. (2021) 'A life writ large: Chris Dobson 1949-2019', *J Magn Reson*, 326, pp. 106947.

Kelso, S., Orlicky, S., Beenstock, J., Ceccarelli, D. F., Kurinov, I., Gish, G. and Sicheri, F. (2021) 'Bipartite binding of the N terminus of Skp2 to cyclin A', *Structure*, 29(9), pp. 975-988.e5.

Kerur, B., Benchimol, E. I., Fiedler, K., Stahl, M., Hyams, J., Stephens, M., Lu, Y., Pfefferkorn, M., Alkhouri, R., Strople, J., Kelsen, J., Siebold, L., Goyal, A., Rosh, J. R., LeLeiko, N., Van Limbergen, J., Guerrero, A. L., Maltz, R., Karam, L., Crowley, E., Griffiths, A., Heyman, M. B., Deneau, M., Benkov, K., Noe, J., Mouton, D., Pappa, H., Galanko, J. A., Snapper, S., Muise, A. M. and Kappelman, M. D. (2021) 'Natural History of Very Early Onset Inflammatory Bowel Disease in North America: A Retrospective Cohort Study', *Inflamm Bowel Dis*, 27(3), pp. 295-302.

Kessler, N., Akabayov, S. R., Moseri, A., Cohen, L. S., Sakhapov, D., Bolton, D., Fridman, B., Kay, L. E., Naider, F. and Anglister, J. (2021) 'Allovalency observed by transferred NOE: interactions of sulfated tyrosine residues in the N-terminal segment of CCR5 with the CCL5 chemokine', *FEBS J*, 288(5), pp. 1648-1663.

Khan, H., Jain, S., Gallant, R. C., Syed, M. H., Zamzam, A., Al-Omran, M., Rand, M. L., Ni, H., Abdin, R. and Qadura, M. (2021a) 'Plateletworks', *J Pers Med*, 11(8).

Khan, H., Zamzam, A., Gallant, R. C., Syed, M. H., Rand, M. L., Ni, H., Forbes, T. L., Al-Omran, M. and Qadura, M. (2021b) 'Aspirin nonsensitivity in patients with vascular disease: Assessment by light transmission aggregometry (aspirin nonsensitivity in vascular patients)', *Res Pract Thromb Haemost*, 5(8), pp. e12618.

Khanna, O., Fathi Kazerooni, A., Farrell, C. J., Baldassari, M. P., Alexander, T. D., Karsy, M., Greenberger, B. A., Garcia, J. A., Sako, C., Evans, J. J., Judy, K. D., Andrews, D. W., Flanders, A. E., Sharan, A. D., Dicker, A. P., Shi, W. and Davatzikos, C. (2021) 'Machine Learning Using Multiparametric Magnetic Resonance Imaging Radiomic Feature Analysis to Predict Ki-67 in World Health Organization Grade I Meningiomas', *Neurosurgery*, 89(5), pp. 928-936.

Kim, M. J., Febbraro, D., Farkona, S., Gillmore, T., Son, J. E., Regeenes, R., Chang, H. H., Pollock-Tahir, E., Yang, J., Park, Y. J., Sivasubramaniyam, T., Oh, S. J., Saraon, P., Stagljar, I., Rocheleau, J. V., Hui, C. C., Caniggia, I., Hao, Z., Mak, T. W., Konvalinka, A. and Woo, M. (2021a) 'Distinct roles of UVRAG and EGFR signaling in skeletal muscle homeostasis', *Mol Metab*, 47, pp. 101185.

Kim, P. K., Halbrook, C. J., Kerk, S. A., Radyk, M., Wisner, S., Kremer, D. M., Sajjakulnukit, P., Andren, A., Hou, S. W., Trivedi, A., Thurston, G., Anand, A., Yan, L., Salamanca-Cardona, L., Welling, S. D., Zhang, L., Pratt, M. R., Keshari, K. R., Ying, H. and Lyssiotis, C. A. (2021b) 'Hyaluronic acid fuels pancreatic cancer cell growth', *Elife*, 10.

Kim, T. H., Payliss, B. J., Nosella, M. L., Lee, I. T. W., Toyama, Y., Forman-Kay, J. D. and Kay, L. E. (2021c) 'Interaction hot spots for phase separation revealed by NMR studies of a CAPRIN1 condensed phase', *Proc Natl Acad Sci U S A*, 118(23).

Knoverek, C. R., Mallimadugula, U. L., Singh, S., Rennella, E., Frederick, T. E., Yuwen, T., Raavicharla, S., Kay, L. E. and Bowman, G. R. (2021) 'Opening of a cryptic pocket in β -lactamase increases penicillinase activity', *Proc Natl Acad Sci U S A*, 118(47).

Kofler, M. and Kapus, A. (2021) 'Nucleocytoplasmic Shuttling of the Mechanosensitive Transcription Factors MRTF and YAP /TAZ', *Methods Mol Biol*, 2299, pp. 197-216.

Kumar, S. and Julien, J. P. (2021) 'TDP-43 triggers immune response via mitochondrial DNA release', *Cell Res*, 31(4), pp. 379-380.

Kumar, S., Phaneuf, D., Cordeau, P., Boutej, H., Kriz, J. and Julien, J. P. (2021) 'Induction of autophagy mitigates TDP-43 pathology and translational repression of neurofilament mRNAs in mouse models of ALS/FTD', *Mol Neurodegener*, 16(1), pp. 1.

Kumar, S., Phaneuf, D. and Julien, J. P. (2021) 'Withaferin-A Treatment Alleviates TAR DNA-Binding Protein-43 Pathology and Improves Cognitive Function in a Mouse Model of FTLD', *Neurotherapeutics*, 18(1), pp. 286-296.

Labib, M. and Kelley, S. O. (2021) 'Circulating tumor cell profiling for precision oncology', *Mol Oncol*, 15(6), pp. 1622-1646.

Labib, M., Wang, Z., Ahmed, S. U., Mohamadi, R. M., Duong, B., Green, B., Sargent, E. H. and Kelley, S. O. (2021) 'Tracking the expression of therapeutic protein targets in rare cells by antibody-mediated nanoparticle labelling and magnetic sorting', *Nat Biomed Eng*, 5(1), pp. 41-52.

Labibi, B., Bashkurov, M., Christova, T. and Attisano, L. (2021) 'High-content imaging and analysis to quantify the nuclear to cytoplasmic ratio of TGF β and hippo effectors in mammalian cells', *STAR Protoc*, 2(3), pp. 100632.

Lam, E., Higgins, V., Zhang, L., Chan, M. K., Bohn, M. K., Trajcevski, K., Liu, P., Adeli, K. and Nathan, P. C. (2021) 'Normative Values of High-Sensitivity Cardiac Troponin T and N-Terminal pro-B-Type Natriuretic Peptide in Children and Adolescents: A Study from the CALIPER Cohort', *J Appl Lab Med*, 6(2), pp. 344-353.

Laselva, O., Ardelean, M. C. and Bear, C. E. (2021) 'Phenotyping Rare CFTR Mutations Reveal Functional Expression Defects Restored by TRIKAFTA', *J Pers Med*, 11(4).

Laselva, O., Bartlett, C., Gunawardena, T. N. A., Ouyang, H., Eckford, P. D. W., Moraes, T. J., Bear, C. E. and Gonska, T. (2021a) 'Rescue of multiple class II CFTR mutations by elexacaftor+tezacaftor+ivacaftor mediated in part by the dual activities of elexacaftor as both corrector and potentiator', *Eur Respir J*, 57(6).

Laselva, O., Bartlett, C., Popa, A., Ouyang, H., Gunawardena, T. N. A., Gonska, T., Moraes, T. J. and Bear, C. E. (2021b) 'Emerging preclinical modulators developed for F508del-CFTR have the potential to be effective for ORKAMBI resistant processing mutants', *J Cyst Fibros*, 20(1), pp. 106-119.

Laselva, O., Qureshi, Z., Zeng, Z. W., Petrotchenko, E. V., Ramjeesingh, M., Hamilton, C. M., Huan, L. J., Borchers, C. H., Pomès, R., Young, R. and Bear, C. E. (2021c) 'Identification of binding sites for ivacaftor on the cystic fibrosis transmembrane conductance regulator', *iScience*, 24(6), pp. 102542.

Latreille, E. and Lee, W. L. (2021) 'Interactions of Influenza and SARS-CoV-2 with the Lung Endothelium: Similarities, Differences, and Implications for Therapy', *Viruses*, 13(2).

Lau, H. H. C., Ingelsson, M. and Watts, J. C. (2021) 'The existence of A β strains and their potential for driving phenotypic heterogeneity in Alzheimer's disease', *Acta Neuropathol*, 142(1), pp. 17-39.

Law, J. C., Koh, W. H., Budyłowski, P., Lin, J., Yue, F., Abe, K. T., Rathod, B., Girard, M., Li, Z., Rini, J. M., Mubareka, S., McGeer, A., Chan, A. K., Gingras, A. C., Watts, T. H. and Ostrowski, M. (2021) 'Systematic Examination of Antigen-Specific Recall T Cell Responses to SARS-CoV-2 versus Influenza Virus Reveals a Distinct Inflammatory Profile', *J Immunol*, 206(1), pp. 37-50.

Lee-Sundlov, M. M., Burns, R. T., Kim, T. O., Grozovsky, R., Giannini, S., Rivadeneyra, L., Zheng, Y., Glabere, S. H., Kahr, W. H. A., Abdi, R., Despotovic, J. M., Wang, D. and Hoffmeister, K. M. (2021) 'Immune cells surveil aberrantly sialylated O-glycans on megakaryocytes to regulate platelet count', *Blood*, 138(23), pp. 2408-2424.

Lemaire, M. (2021) 'Novel Fanconi renotubular syndromes provide insights in proximal tubule pathophysiology', *Am J Physiol Renal Physiol*, 320(2), pp. F145-F160.

Lemaire, M., Noone, D., Lapeyraque, A. L., Licht, C. and Frémeaux-Bacchi, V. (2021) 'Inherited Kidney Complement Diseases', *Clin J Am Soc Nephrol*, 16(6), pp. 942-956.

Lerner, S., Eilam, R., Adler, L., Baruteau, J., Kreiser, T., Tsoory, M., Brandis, A., Mehlman, T., Ryten, M., Botia, J. A., Ruiz, S. G., Garcia, A. C., Dionisi-Vici, C., Ranucci, G., Spada, M., Mazkereth, R., McCarter, R., Izem, R., Balmat, T. J., Richesson, R., Gazit, E., Nagamani, S. C. S. and Erez, A. (2021) 'ASL expression in ALDH1A1(+) neurons in the substantia nigra metabolically contributes to neurodegenerative phenotype', *Hum Genet*, 140(10), pp. 1471-1485.

Leung, G., Zhou, Y., Ostrowski, P., Mylvaganam, S., Boroumand, P., Mulder, D. J., Guo, C., Muise, A. M. and Freeman, S. A. (2021a) 'ARPC1B binds WASP to control actin polymerization and curtail tonic signaling in B cells', *JCI Insight*, 6(23).

Leung, L. Y. T., Khan, S., Budyłowski, P., Li, Z., Goroshko, S., Liu, Y., Dong, S., Carlyle, J. R., Rini, J. M., Ostrowski, M. and Ehrhardt, G. R. A. (2021b) 'Detection and Neutralization of SARS-CoV-2 Using Non-conventional Variable Lymphocyte Receptor Antibodies of the Evolutionarily Distant Sea Lamprey', *Front Immunol*, 12, pp. 659071.

Levin, M. D., Bianconi, S., Smith, A., Cawley, N. X., Do, A. D., Hammond, D., Grafstein, J. F., Thurm, A., Miller, J., Perreault, J., Noguchi, A., Springer, D., Kozel, B. A., Spurney, C. F., Wassif, C. A., Yu, Z. X., Schulze, A., Porter, F. D. and Hannah-Shmouni, F. (2021) 'X-linked creatine transporter deficiency results in prolonged QTc and increased sudden death risk in humans and disease model', *Genet Med*, 23(10), pp. 1864-1872.

Levin-Kravets, O., Kordonsky, A., Shusterman, A., Biswas, S., Persaud, A., Elias, S., Langut, Y., Florentin, A., Simpson-Lavy, K. J., Yariv, E., Avishid, R., Srur, M., Almog, O., Marshanski, T., Kadosh, S., Ben David, N., Manori, B., Fischer, Z., Lilly, J., Borisova, E., Ambrozkiwicz, M. C., Tarabykin, V., Kupiec, M., Thaker, M., Rotin, D. and Prag, G. (2021) 'Split Chloramphenicol Acetyl-Transferase Assay Reveals Self-Ubiquitylation-Dependent Regulation of UBE3B', *J Mol Biol*, 433(23), pp. 167276.

Li, X., Qin, Z., Fu, H., Li, T., Peng, R., Li, Z., Rini, J. M. and Liu, X. (2021) 'Enhancing the performance of paper-based electrochemical impedance spectroscopy nanobiosensors: An experimental approach', *Biosens Bioelectron*, 177, pp. 112672.

Liotti, F., Kumar, N., Prevede, N., Marotta, M., Sorriento, D., Ieranò, C., Ronchi, A., Marino, F. Z., Moretti, S., Colella, R., Puxeddu, E., Paladino, S., Kano, Y., Ohh, M., Scala, S. and Melillo, R. M. (2021) 'PD-1 blockade delays tumor growth by inhibiting an intrinsic SHP2/Ras/MAPK signalling in thyroid cancer cells', *J Exp Clin Cancer Res*, 40(1), pp. 22.

Lippi, G., Adeli, K. and Plebani, M. (2021) 'Commercial immunoassays for detection of anti-SARS-CoV-2 spike and RBD antibodies: urgent call for validation against new and highly mutated variants', *Clin Chem Lab Med*.

Liu, M., Das, A. K., Lincoff, J., Sasmal, S., Cheng, S. Y., Vernon, R. M., Forman-Kay, J. D. and Head-Gordon, T. (2021a) 'Configurational Entropy of Folded Proteins and Its Importance for Intrinsically Disordered Proteins', *Int J Mol Sci*, 22(7).

Liu, Y., Budyłowski, P., Dong, S., Li, Z., Goroshko, S., Leung, L. Y. T., Grunebaum, E., Campisi, P., Propst, E. J., Wolter, N. E., Rini, J. M., Zia, A., Ostrowski, M. and Ehrhardt, G. R. A. (2021b) 'SARS-CoV-2-Reactive Mucosal B Cells in the Upper Respiratory Tract of Uninfected Individuals', *J Immunol*, 207(10), pp. 2581-2588.

Loh, T. P., Lord, S. J., Bell, K., Bohn, M. K., Lim, C. Y., Markus, C., Fares Taie, H., Adeli, K., Lippi, G., Sandberg, S. and Horvath, A. (2021) 'Setting minimum clinical performance specifications for tests based on disease prevalence

and minimum acceptable positive and negative predictive values: Practical considerations applied to COVID-19 testing', *Clin Biochem*, 88, pp. 18-22.

Longo, J., Smirnov, P., Li, Z., Branchard, E., van Leeuwen, J. E., Licht, J. D., Haibe-Kains, B., Andrews, D. W., Keats, J. J., Pugh, T. J., Trudel, S. and Penn, L. Z. (2021a) 'The mevalonate pathway is an actionable vulnerability of t(4;14)-positive multiple myeloma', *Leukemia*, 35(3), pp. 796-808.

Longo, N., Diaz, G. A., Lichter-Konecki, U., Schulze, A., Inbar-Feigenberg, M., Conway, R. L., Bannick, A. A., McCandless, S. E., Zori, R., Hainline, B., Ah Mew, N., Canavan, C., Vescio, T., Kok, T., Porter, M. H. and Berry, S. A. (2021b) 'Glycerol phenylbutyrate efficacy and safety from an open label study in pediatric patients under 2 months of age with urea cycle disorders', *Mol Genet Metab*, 132(1), pp. 19-26.

Lourenco, C., Resetca, D., Redel, C., Lin, P., MacDonald, A. S., Ciaccio, R., Kenney, T. M. G., Wei, Y., Andrews, D. W., Sunnerhagen, M., Arrowsmith, C. H., Raught, B. and Penn, L. Z. (2021) 'MYC protein interactors in gene transcription and cancer', *Nat Rev Cancer*, 21(9), pp. 579-591.

Lu, W. T., Trost, C. N., Müller-Esparza, H., Randau, L. and Davidson, A. R. (2021) 'Anti-CRISPR AcrIF9 functions by inducing the CRISPR-Cas complex to bind DNA non-specifically', *Nucleic Acids Res*, 49(6), pp. 3381-3393.

Luders, A., Blankenstein, O., Brockow, I., Ensenauer, R., Lindner, M., Schulze, A. and Nennstiel, U. (2021) 'Neonatal Screening for Congenital Metabolic and Endocrine Disorders- Results From Germany for the Years 2006-2018', *Dtsch Arztebl Int*, 118(7), pp. 101-108.

Lv, F., Qi, F., Zhang, Z., Wen, M., Kale, J., Piai, A., Du, L., Wang, S., Zhou, L., Yang, Y., Wu, B., Liu, Z., Del Rosario, J., Pogmore, J., Chou, J. J., Andrews, D. W., Lin, J. and OuYang, B. (2021) 'An amphipathic Bax core dimer forms part of the apoptotic pore wall in the mitochondrial membrane', *EMBO J*, 40(14), pp. e106438.

Ma, Y., Chen, K., Xia, F., Atwal, R., Wang, H., Ahmed, S. U., Cardarelli, L., Lui, I., Duong, B., Wang, Z., Wells, J. A., Sidhu, S. S. and Kelley, S. O. (2021) 'Phage-Based Profiling of Rare Single Cells Using Nanoparticle-Directed Capture', *ACS Nano*, 15(12), pp. 19202-19210.

Mabanglo, M. F., Bhandari, V. and Houry, W. A. (2021) 'Substrates and interactors of the ClpP protease in the mitochondria', *Curr Opin Chem Biol*.

Mabrouk, M. T., Chiem, K., Rujas, E., Huang, W. C., Jahagirdar, D., Quinn, B., Surendran Nair, M., Nissly, R. H., Cavener, V. S., Boyle, N. R., Sornberger, T. A., Kuchipudi, S. V., Ortega, J., Julien, J. P., Martinez-Sobrido, L. and Lovell, J. (2021) 'Lyophilized, thermostable Spike or RBD immunogenic liposomes induce protective immunity against SARS-CoV-2 in mice', *Sci Adv*, 7(49), pp. eabj1476.

Maher, M. J. and Ernst, O. P. (2021) 'Insane in the membrane: developments in protein folding, protein transport, and signaling by GPCRs', *Curr Opin Struct Biol*, 69, pp. vi-viii.

Mahmoud, B. K., Hamed, A. N. E., Samy, M. N., Abdelmohsen, U. R., Attia, E. Z., Fawzy, M. A., Refaey, R. H., Salem, M. A., Pimentel-Elardo, S. M., Nodwell, J. R., Desoukey, S. Y. and Kamel, M. S. (2021) 'Metabolomic profiling and biological investigation of', *Nat Prod Res*, 35(22), pp. 4632-4637.

Malhi, M., Norris, M. J., Duan, W., Moraes, T. J. and Maynes, J. T. (2021) 'Statin-mediated disruption of Rho GTPase prenylation and activity inhibits respiratory syncytial virus infection', *Commun Biol*, 4(1), pp. 1239.

Marcyk, P. T., LeBlanc, E. V., Kuntz, D. A., Xue, A., Ortiz, F., Trilles, R., Bengtson, S., Kenney, T. M. G., Huang, D. S., Robbins, N., Williams, N. S., Krysan, D. J., Privé, G. G., Whitesell, L., Cowen, L. E. and Brown, L. E. (2021) 'Fungal-Selective Resorcylate Aminopyrazole Hsp90 Inhibitors: Optimization of Whole-Cell Anticryptococcal Activity and Insights into the Structural Origins of Cryptococcal Selectivity', *J Med Chem*, 64(2), pp. 1139-1169.

Martínez-Matías, N., Chorna, N., González-Crespo, S., Villanueva, L., Montes-Rodríguez, I., Melendez-Aponte, L. M., Roche-Lima, A., Carrasquillo-Carrión, K., Santiago-Cartagena, E., Rymond, B. C., Babu, M., Stagljar, I. and Rodríguez-Medina, J. R. (2021) 'Toward the discovery of biological functions associated with the mechanosensor Mtl1p of *Saccharomyces cerevisiae* via integrative multi-OMICs analysis', *Sci Rep*, 11(1), pp. 7411.

Marwaha, A., Ibrahim, J., Rice, T., Hamwi, N., Rupar, C. A., Cresswell, D., Prasad, C. and Schulze, A. (2021) 'Two cases of carbonic anhydrase VA deficiency-An ultrarare metabolic decompensation syndrome presenting with hyperammonemia, lactic acidosis, ketonuria, and good clinical outcome', *JIMD Rep: Vol. 1*. United States: (c) 2020 The Authors. JIMD Reports published by John Wiley & Sons Ltd on behalf of SSIEM., pp. 9-14.

Matveyenko, A., Sieck, G. and Klip, A. (2021) 'A Century of Insulin: Outstanding Physiological Breakthroughs', *Physiology (Bethesda)*, 36(4), pp. 197-200.

Maxson, M. E., Sarantis, H., Volchuk, A., Brumell, J. H. and Grinstein, S. (2021) 'Rab5 regulates macropinocytosis by recruiting the inositol 5-phosphatases OCRL and Inpp5b that hydrolyse PtdIns(4,5)P2', *J Cell Sci*, 134(7).

Maxwell, K. L. (2021) 'Cyclic pyrimidines jump on the anti-phage bandwagon', *Cell*, 184(23), pp. 5691-5693.

McCallum, M., Tammam, S., Rubinstein, J. L., Burrows, L. L. and Howell, P. L. (2021) 'CryoEM map of *Pseudomonas aeruginosa* PilQ enables structural characterization of TsaP', *Structure*, 29(5), pp. 457-466.e4.

Mehrabi, P., Bücker, R., Bourenkov, G., Ginn, H. M., von Stetten, D., Müller-Werkmeister, H. M., Kuo, A., Morizumi, T., Eger, B. T., Ou, W. L., Oghbaey, S., Sarracini, A., Besaw, J. E., Pare-Labrosse, O., Meier, S., Schikora, H., Tellkamp, F., Marx, A., Sherrell, D. A., Axford, D., Owen, R. L., Ernst, O. P., Pai, E. F., Schulz, E. C. and Miller, R. J. D. (2021) 'Serial femtosecond and serial synchrotron crystallography can yield data of equivalent quality: A systematic comparison', *Sci Adv*, 7(12).

Mejdani, M., Pawluk, A., Maxwell, K. L. and Davidson, A. R. (2021) 'Anti-CRISPR AcrI-E2 Binds the Type I-E CRISPR-Cas Complex But Does Not Block DNA Binding', *J Mol Biol*, 433(3), pp. 166759.

Menon, S., Kofoed, R. H., Nabhouh, F., Xhima, K., Al-Fahoum, Y., Langman, T., Mount, H. T. J., Shihabuddin, L. S., Sardi, S. P., Fraser, P. E., Watts, J. C., Aubert, I. and Tandon, A. (2021) 'Viral alpha-synuclein knockdown prevents spreading synucleinopathy', *Brain Commun*, 3(4), pp. fcab247.

Mergenthaler, P., Hariharan, S., Pemberton, J. M., Lourenco, C., Penn, L. Z. and Andrews, D. W. (2021) 'Rapid 3D phenotypic analysis of neurons and organoids using data-driven cell segmentation-free machine learning', *PLoS Comput Biol*, 17(2), pp. e1008630.

Meyer, K. J. and Nodwell, J. R. (2021) 'Biology and applications of co-produced, synergistic antimicrobials from environmental bacteria', *Nat Microbiol*, 6(9), pp. 1118-1128.

Miranda, M. Z., Lichner, Z., Szász, K. and Kapus, A. (2021) 'MRTF: Basic Biology and Role in Kidney Disease', *Int J Mol Sci*, 22(11).

Moe, A., Di Trani, J., Rubinstein, J. L. and Brzezinski, P. (2021a) 'Cryo-EM structure and kinetics reveal electron transfer by 2D diffusion of cytochrome', *Proc Natl Acad Sci U S A*, 118(11).

Moe, A., Kovalova, T., Król, S., Yanofsky, D. J., Bott, M., Sjöstrand, D., Rubinstein, J. L., Högbom, M. and Brzezinski, P. (2021b) 'The respiratory supercomplex from *C. glutamicum*', *Structure*.

Mohr, S., Kenny, A., Lam, S. T. Y., Morgan, M. B., Smibert, C. A., Lipshitz, H. D. and Macdonald, P. M. (2021) 'Opposing roles for Egalitarian and Staufén in transport, anchoring and localization of oskar mRNA in the *Drosophila* oocyte', *PLoS Genet*, 17(4), pp. e1009500.

Montaño-Rendón, F., Grinstein, S. and Walpole, G. F. W. (2021) 'Monitoring Phosphoinositide Fluxes and Effectors During Leukocyte Chemotaxis and Phagocytosis', *Front Cell Dev Biol*, 9, pp. 626136.

Moradinazar, M., Najafi, F., Pasdar, Y., Hamzeh, B., Shakiba, E., Bohn, M. K., Adeli, K. and Rahimi, Z. (2021) 'Establishing hematological reference intervals in healthy adults: Ravansar non-communicable disease cohort study, Iran', *Int J Lab Hematol*, 43(2), pp. 199-209.

Morris, A. J., Jackson, L., Cw Yau, Y., Reichhardt, C., Beaudoin, T., Uwumarenogie, S., Guttman, K. M., Lynne Howell, P., Parsek, M. R., Hoffman, L. R., Nguyen, D., DiGiandomenico, A., Guttman, D. S., Wozniak, D. J. and Waters, V. J. (2021) 'The role of Psl in the failure to eradicate *Pseudomonas aeruginosa* biofilms in children with cystic fibrosis', *NPJ Biofilms Microbiomes*, 7(1), pp. 63.

Muhanna, N., Eu, D., Chan, H. H. L., Douglas, C., Townson, J. L., Di Grappa, M. A., Mohamadi, R. M., Kelley, S. O., Bratman, S. V. and Irish, J. C. (2021) 'Cell-free DNA and circulating tumor cell kinetics in a pre-clinical head and neck Cancer model undergoing radiation therapy', *BMC Cancer*, 21(1), pp. 1075.

Mylvaganam, S., Freeman, S. A. and Grinstein, S. (2021) 'The cytoskeleton in phagocytosis and macropinocytosis', *Curr Biol*, 31(10), pp. R619-R632.

Nambu, R. and Muise, A. M. (2020) 'Advanced Understanding of Monogenic Inflammatory Bowel Disease', *Front Pediatr*, 8, pp. 618918.

Nambu, R., Warner, N., Mulder, D. J., Kotlarz, D., McGovern, D. P. B., Cho, J., Klein, C., Snapper, S. B., Griffiths, A. M., Iwama, I. and Muise, A. M. (2021) 'A Systematic Review of Monogenic Inflammatory Bowel Disease', *Clin Gastroenterol Hepatol*.

Nilvebrant, J., Ereño-Orbea, J., Gorelik, M., Julian, M. C., Tessier, P. M., Julien, J. P. and Sidhu, S. S. (2021) 'Systematic Engineering of Optimized Autonomous Heavy-Chain Variable Domains', *J Mol Biol*, 433(21), pp. 167241.

North, O. I. and Davidson, A. R. (2021) 'Phage Proteins Required for Tail Fiber Assembly Also Bind Specifically to the Surface of Host Bacterial Strains', *J Bacteriol*, 203(3).

Nosella, M. L., Tereshchenko, M., Pritišanac, I., Chong, P. A., Toretsky, J. A., Lee, H. O. and Forman-Kay, J. D. (2021) '-Linked-', *J Am Chem Soc*, 143(30), pp. 11520-11534.

Nowak-Choi, K., Palmer, J. D., Casey, J., Chitale, A., Kalchman, I., Buss, E., Keith, S. W., Hegarty, S. E., Curtis, M., Solomides, C., Shi, W., Judy, K., Andrews, D. W., Farrell, C. and Werner-Wasik, M. (2021) 'Resected WHO grade I meningioma and predictors of local control', *J Neurooncol*, 152(1), pp. 145-151.

Offenbacher, J., Kim, P. K., Nguyen, V. and Meltzer, J. A. (2021a) 'Association of thoracic cage fractures and pericardial effusion in blunt trauma', *Am J Emerg Med*, 50, pp. 729-732.

Offenbacher, J., Liu, R., Venitelli, Z., Martin, D., Fogel, K., Nguyen, V. and Kim, P. K. (2021b) 'Hemopericardium and Cardiac Tamponade After Blunt Thoracic Trauma: A Case Series and the Essential Role of Cardiac Ultrasound', *J Emerg Med*, 61(3), pp. e40-e45.

Ogawa, M., Jiang, J. X., Xia, S., Yang, D., Ding, A., Laselva, O., Hernandez, M., Cui, C., Higuchi, Y., Suemizu, H., Dorrell, C., Grompe, M., Bear, C. E. and Ogawa, S. (2021) 'Generation of functional ciliated cholangiocytes from human pluripotent stem cells', *Nat Commun*, 12(1), pp. 6504.

Olevsko, I., Szederkenyi, K., Corridon, J., Au, A., Delhomme, B., Bastien, T., Fernandes, J., Yip, C., Oheim, M. and Salomon, A. (2021) 'A simple, inexpensive and multi-scale 3-D fluorescent test sample for optical sectioning microscopies', *Microsc Res Tech*, 84(11), pp. 2625-2635.

Oproescu, A. M., Han, S. and Schuurmans, C. (2021) 'New Insights Into the Intricacies of Proneural Gene Regulation in the Embryonic and Adult Cerebral Cortex', *Front Mol Neurosci*, 14, pp. 642016.

Oren, Y. S., Avizur-Barchad, O., Ozeri-Galai, E., Elgrabli, R., Schirelman, M. R., Blinder, T., Stampfer, C. D., Ordan, M., Laselva, O., Cohen-Cymbereknoh, M., Kerem, E., Bear, C. E. and Kerem, B. (2021) 'Antisense oligonucleotide splicing modulation as a novel Cystic Fibrosis therapeutic approach for the W1282X nonsense mutation', *J Cyst Fibros*.

Orrell, K. E. and Melnyk, R. A. (2021a) 'Large Clostridial Toxins: Mechanisms and Roles in Disease', *Microbiol Mol Biol Rev*, 85(3), pp. e0006421.

Orrell, K. E. and Melnyk, R. A. (2021b) 'Translocation expands the scope of the large clostridial toxin family', *Trends Biochem Sci*, 46(12), pp. 953-959.

Ortin-Martinez, A., Yan, N. E., Tsai, E. L. S., Comanita, L., Gurdita, A., Tachibana, N., Liu, Z. C., Lu, S., Dolati, P., Pokrajac, N. T., El-Sehemy, A., Nickerson, P. E. B., Schuurmans, C., Bremner, R. and Wallace, V. A. (2021) 'Photoreceptor nanotubes mediate the in vivo exchange of intracellular material', *EMBO J*, 40(22), pp. e107264.

Ostan, N. K. H., Moraes, T. F. and Schryvers, A. B. (2021) 'Lactoferrin receptors in Gram-negative bacteria: an evolutionary perspective', *Biochem Cell Biol*, 99(1), pp. 102-108.

Ouahed, J., Kelsen, J. R., Spessott, W. A., Kooshesh, K., Sanmillan, M. L., Dawany, N., Sullivan, K. E., Hamilton, K. E., Slowik, V., Nejentsev, S., Neves, J. F., Flores, H., Chung, W. K., Wilson, A., Anyane-Yeboah, K., Wou, K., Jain, P., Field, M., Tollefson, S., Dent, M. H., Li, D., Naito, T., McGovern, D. P. B., Kwong, A. C., Taliaferro, F., Ordovas-Montanes, J., Horwitz, B. H., Kotlarz, D., Klein, C., Evans, J., Dorsey, J., Warner, N., Elkadri, A., Muise, A. M., Goldsmith, J., Thompson, B., Engelhardt, K. R., Cant, A. J., Hambleton, S., Barclay, A., Toth-Petroczy, A., Vuzman, D., Carmichael, N., Bodea, C., Cassa, C. A., Devoto, M., Maas, R. L., Behrens, E. M., Giraudo, C. G. and Snapper, S. B. (2021) 'Variants in STXBP3 are Associated with Very Early Onset Inflammatory Bowel Disease, Bilateral Sensorineural Hearing Loss and Immune Dysregulation', *J Crohns Colitis*, 15(11), pp. 1908-1919.

Pal, T., Wessén, J., Das, S. and Chan, H. S. (2021) 'Subcompartmentalization of polyampholyte species in organelle-like condensates is promoted by charge-pattern mismatch and strong excluded-volume interaction', *Phys Rev E*, 103(4-1), pp. 042406.

Palander, O., Lam, A., Collins, R. F., Moraes, T. J. and Trimble, W. S. (2021) 'Nonredundant roles of DIAPHs in primary ciliogenesis', *J Biol Chem*, 296, pp. 100680.

Palazzo, A. F. and Kang, Y. M. (2021) 'GC-content biases in protein-coding genes act as an "mRNA identity" feature for nuclear export', *Bioessays*, 43(2), pp. e2000197.

Pan, C., Zimmer, A., Shah, M., Huynh, M. S., Lai, C. C., Sit, B., Hooda, Y., Curran, D. M. and Moraes, T. F. (2021) 'Actinobacillus utilizes a binding protein-dependent ABC transporter to acquire the active form of vitamin B', *J Biol Chem*, 297(3), pp. 101046.

Panichnantakul, P., Patel, A., Tse, E. Y. W. and Wyatt, H. D. M. (2021) 'An open-source platform to quantify subnuclear foci and protein colocalization in response to replication stress', *DNA Repair (Amst)*, 105, pp. 103156.

Parashar, A., Gourgas, O., Lau, K., Li, J., Muiznieks, L., Sharpe, S., Davis, E., Cerruti, M. and Murshed, M. (2021) 'Elastin calcification in in vitro models and its prevention by MGP's N-terminal peptide', *J Struct Biol*, 213(1), pp. 107637.

Park, S., Song, J., Baek, I. J., Jang, K. Y., Han, C. Y., Jun, D. W., Kim, P. K., Raught, B. and Jin, E. J. (2021) 'Loss of Acot12 contributes to NAFLD independent of lipolysis of adipose tissue', *Exp Mol Med*, 53(7), pp. 1159-1169.

- Parupudi, A., Chaturvedi, S. K., Adão, R., Harkness, R. W., Dragulin-Otto, S., Kay, L. E., Esfandiary, R., Zhao, H. and Schuck, P. (2021) 'Global multi-method analysis of interaction parameters for reversibly self-associating macromolecules at high concentrations', *Sci Rep*, 11(1), pp. 5741.
- Patel, P. O., Baylis, A. L., Hickey, S. E., Stanek, J., Kirschner, R. E., Rand, M. L. and Kumar, R. (2021a) 'Bleeding Severity and Phenotype in 22q11.2 Deletion Syndrome-A Cross-Sectional Investigation', *J Pediatr*, 235, pp. 220-225.
- Patel, P. S., Abraham, K. J., Guturi, K. K. N., Halaby, M. J., Khan, Z., Palomero, L., Ho, B., Duan, S., St-Germain, J., Algouneh, A., Mateo, F., El Ghamrasni, S., Barbour, H., Barnes, D. R., Beesley, J., Sanchez, O., Berman, H. K., Brown, G. W., Affar, E. B., Chenevix-Trench, G., Antoniou, A. C., Arrowsmith, C. H., Raught, B., Pujana, M. A., Mekhail, K., Hakem, A. and Hakem, R. (2021b) 'RNF168 regulates R-loop resolution and genomic stability in BRCA1/2-deficient tumors', *J Clin Invest*, 131(3).
- Pathmanathan, S., Grozavu, I., Lyakisheva, A. and Stajlgjar, I. (2021) 'Drugging the undruggable proteins in cancer: A systems biology approach', *Curr Opin Chem Biol*.
- Pavarotti, M. A., Tokarz, V., Frenedo-Cumbo, S., Bilan, P. J., Liu, Z., Zanni-Ruiz, E., Mayorga, L. S. and Klip, A. (2021) 'Complexin-2 redistributes to the membrane of muscle cells in response to insulin and contributes to GLUT4 translocation', *Biochem J*, 478(2), pp. 407-422.
- Payliss, B. J., Patel, A., Sheppard, A. C. and Wyatt, H. D. M. (2021) 'Exploring the Structures and Functions of Macromolecular SLX4-Nuclease Complexes in Genome Stability', *Front Genet*, 12, pp. 784167.
- Pearson, J. D., Trcka, D., Lu, S., Hyduk, S. J., Jen, M., Aynaud, M. M., Hernández, J. J., Peidis, P., Barrios-Rodiles, M., Chan, K., Woodgett, J., Mazzulli, T., Attisano, L., Pelletier, L., Cybulsky, M. I., Wrana, J. L. and Bremner, R. (2021) 'Comparison of SARS-CoV-2 indirect and direct RT-qPCR detection methods', *Virology*, 18(1), pp. 99.
- Pemberton, J. M., Pogmore, J. P. and Andrews, D. W. (2021) 'Neuronal cell life, death, and axonal degeneration as regulated by the BCL-2 family proteins', *Cell Death Differ*, 28(1), pp. 108-122.
- Petre, M. A., Levin, D. N., Englesakis, M., Maynes, J. T., Pechlivanoglou, P. and Aoyama, K. (2021) 'Dexmedetomidine vs. total intravenous anaesthesia in paediatric emergence delirium: A network meta-analysis', *Eur J Anaesthesiol*, 38(11), pp. 1111-1123.
- Pluthero, F. G. and Kahr, W. H. A. (2021) 'Gray platelet syndrome: NBEAL2 mutations are associated with pathology beyond megakaryocyte and platelet function defects', *J Thromb Haemost*, 19(2), pp. 318-322.
- Pogmore, J. P., Uehling, D. and Andrews, D. W. (2021) 'Pharmacological Targeting of Executioner Proteins: Controlling Life and Death', *J Med Chem*, 64(9), pp. 5276-5290.
- Popovic, A., Bourdon, C., Wang, P. W., Guttman, D. S., Soofi, S., Bhutta, Z. A., Bandsma, R. H. J., Parkinson, J. and Pell, L. G. (2021) 'Micronutrient supplements can promote disruptive protozoan and fungal communities in the developing infant gut', *Nat Commun*, 12(1), pp. 6729.
- Proppe, A. H., Johnston, A., Teale, S., Mahata, A., Quintero-Bermudez, R., Jung, E. H., Grater, L., Cui, T., Filleter, T., Kim, C. Y., Kelley, S. O., De Angelis, F. and Sargent, E. H. (2021) 'Multication perovskite 2D/3D interfaces form via progressive dimensional reduction', *Nat Commun*, 12(1), pp. 3472.
- Prosniak, M., Harshyne, L. A., Gorky, J., Curtis, M. T., Kenyon, L. C., Schwaber, J. S., Lebrun, A., Kean, R. B., Andrews, D. W. and Hooper, D. C. (2021) 'Systemic Immune Bias Delineates Malignant Astrocytoma Survival Cohorts', *J Immunol*, 206(7), pp. 1483-1492.

Pugliese, M., Tingley, K., Chow, A., Pallone, N., Smith, M., Chakraborty, P., Geraghty, M. T., Irwin, J. K., Mitchell, J. J., Stockler, S., Nicholls, S. G., Offringa, M., Rahman, A., Tessier, L. A., Butcher, N. J., Iverson, R., Lamoureux, M., Clifford, T. J., Hutton, B., Paik, K., Tao, J., Skidmore, B., Coyle, D., Duddy, K., Dyack, S., Greenberg, C. R., Jain Ghai, S., Karp, N., Korngut, L., Kronick, J., MacKenzie, A., MacKenzie, J., Maranda, B., Potter, M., Prasad, C., Schulze, A., Sparkes, R., Taljaard, M., Trakadis, Y., Walia, J. and Potter, B. K. (2021) 'Core Outcome Sets for Medium-Chain Acyl-CoA Dehydrogenase Deficiency and Phenylketonuria', *Pediatrics*, 148(2).

Raman, S., Buongervino, S. N., Lane, M. V., Zhelev, D. V., Zhu, Z., Cui, H., Martinez, B., Martinez, D., Wang, Y., Upton, K., Patel, K., Rathi, K. S., Navia, C. T., Harmon, D. B., Li, Y., Pawel, B., Dimitrov, D. S., Maris, J. M., Julien, J. P. and Bosse, K. R. (2021) 'A GPC2 antibody-drug conjugate is efficacious against neuroblastoma and small-cell lung cancer via binding a conformational epitope', *Cell Rep Med*, 2(7), pp. 100344.

Rauwolf, P., Millard, S. K., Wong, N., Witt, A., Davies, T. J., Cahill, A. M., Madden, G. J., Parkinson, J. A. and Rogers, R. D. (2021) "'Just not knowing" can make life sweeter (and saltier): Reward uncertainty alters the sensory experience and consumption of palatable food and drinks', *J Exp Psychol Gen*, 150(10), pp. 2015-2035.

Reichenwallner, J., Liu, B., Balo, A. R., Ou, W. L. and Ernst, O. P. (2021) 'Electron paramagnetic resonance spectroscopy on G-protein-coupled receptors: Adopting strategies from related model systems', *Curr Opin Struct Biol*, 69, pp. 177-186.

Reichheld, S. E., Muiznieks, L. D., Huynh, Q., Wang, N., Ing, C., Miao, M., Sitarz, E. E., Pomès, R., Sharpe, S. and Keeley, F. W. (2021) 'The evolutionary background and functional consequences of the rs2071307 polymorphism in human tropoelastin', *Biopolymers*, 112(2), pp. e23414.

Reisman, B. J., Guo, H., Ramsey, H. E., Wright, M. T., Reinfeld, B. I., Ferrell, P. B., Sulikowski, G. A., Rathmell, W. K., Savona, M. R., Plate, L., Rubinstein, J. L. and Bachmann, B. O. (2021) 'Apoptolidin family glycomacrolides target leukemia through inhibition of ATP synthase', *Nat Chem Biol*.

Rizzolo, K., Yu, A. Y. H., Ologbenla, A., Kim, S. R., Zhu, H., Ishimori, K., Thibault, G., Leung, E., Zhang, Y. W., Teng, M., Haniszewski, M., Miah, N., Phanse, S., Minic, Z., Lee, S., Caballero, J. D., Babu, M., Tsai, F. T. F., Saio, T. and Houry, W. A. (2021a) 'Author Correction: Functional cooperativity between the trigger factor chaperone and the ClpXP proteolytic complex', *Nat Commun*, 12(1), pp. 2753.

Rizzolo, K., Yu, A. Y. H., Ologbenla, A., Kim, S. R., Zhu, H., Ishimori, K., Thibault, G., Leung, E., Zhang, Y. W., Teng, M., Haniszewski, M., Miah, N., Phanse, S., Minic, Z., Lee, S., Caballero, J. D., Babu, M., Tsai, F. T. F., Saio, T. and Houry, W. A. (2021b) 'Functional cooperativity between the trigger factor chaperone and the ClpXP proteolytic complex', *Nat Commun*, 12(1), pp. 281.

Rosa, N., Ivanova, H., Wagner, L. E., Kale, J., La Rovere, R., Welkenhuyzen, K., Louros, N., Karamanou, S., Shabardina, V., Lemmens, I., Vandermarliere, E., Hamada, K., Ando, H., Rousseau, F., Schymkowitz, J., Tavernier, J., Mikoshiba, K., Economou, A., Andrews, D. W., Parys, J. B., Yule, D. I. and Bultynck, G. (2021) 'Bcl-xL acts as an inhibitor of IP', *Cell Death Differ*.

Rosin, J. M., Marsters, C. M., Malik, F., Far, R., Adhani, L., Schuurmans, C., Pittman, Q. J. and Kurrasch, D. M. (2021) 'Embryonic Microglia Interact with Hypothalamic Radial Glia during Development and Upregulate the TAM Receptors MERTK and AXL following an Insult', *Cell Rep*, 34(1), pp. 108587.

Ross, J. E., Zhang, B. M., Lee, K., Mohan, S., Branchford, B. R., Bray, P., Dugan, S. N., Freson, K., Heller, P. G., Kahr, W. H. A., Lambert, M. P., Luchtman-Jones, L., Luo, M., Perez Botero, J., Rondina, M. T., Ryan, G., Westbury, S., Bergmeier, W. and Di Paola, J. (2021) 'Specifications of the variant curation guidelines for ITGA2B/ITGB3: ClinGen Platelet Disorder Variant Curation Panel', *Blood Adv*, 5(2), pp. 414-431.

Rothenbroker, M., McConnell, E. M., Gu, J., Urbanus, M. L., Samani, S. E., Ensminger, A. W., Filipe, C. D. M. and Li, Y. (2021) 'Selection and Characterization of an RNA-Cleaving DNase Activated by Legionella pneumophila', *Angew Chem Int Ed Engl*, 60(9), pp. 4782-4788.

Rotin, D. and Staub, O. (2021) 'Function and Regulation of the Epithelial Na', *Compr Physiol*, 11(3), pp. 2017-2045.

Ruiz-Riquelme, A., Mao, A., Barghash, M. M., Lau, H. H. C., Stuart, E., Kovacs, G. G., Nilsson, K. P. R., Fraser, P. E., Schmitt-Ulms, G. and Watts, J. C. (2021) 'A β 43 aggregates exhibit enhanced prion-like seeding activity in mice', *Acta Neuropathol Commun*, 9(1), pp. 83.

Rujas, E., Kucharska, I., Tan, Y. Z., Benlekber, S., Cui, H., Zhao, T., Wasney, G. A., Budyłowski, P., Guvenc, F., Newton, J. C., Sicard, T., Semesi, A., Muthuraman, K., Nouanesengsy, A., Aschner, C. B., Prieto, K., Bueler, S. A., Youssef, S., Liao-Chan, S., Glanville, J., Christie-Holmes, N., Mubareka, S., Gray-Owen, S. D., Rubinstein, J. L., Treanor, B. and Julien, J. P. (2021a) 'Multivalency transforms SARS-CoV-2 antibodies into ultrapotent neutralizers', *Nat Commun*, 12(1), pp. 3661.

Rujas, E., Leaman, D. P., Insausti, S., Carravilla, P., García-Porrás, M., Largo, E., Morillo, I., Sánchez-Eugenia, R., Zhang, L., Cui, H., Iloro, I., Elortza, F., Julien, J. P., Eggeling, C., Zwick, M. B., Caaveiro, J. M. M. and Nieva, J. L. (2021b) 'Focal accumulation of aromaticity at the CDRH3 loop mitigates 4E10 polyreactivity without altering its HIV neutralization profile', *iScience*, 24(9), pp. 102987.

Sander, C. L., Luu, J., Kim, K., Furkert, D., Jang, K., Reichenwallner, J., Kang, M., Lee, H. J., Eger, B. T., Choe, H. W., Fiedler, D., Ernst, O. P., Kim, Y. J., Palczewski, K. and Kiser, P. D. (2021) 'Structural evidence for visual arrestin priming via complexation of phosphoinositols', *Structure*.

Sanwal, R., Joshi, K., Ditmans, M., Tsai, S. S. H. and Lee, W. L. (2021) 'Ultrasound and Microbubbles for Targeted Drug Delivery to the Lung Endothelium in ARDS: Cellular Mechanisms and Therapeutic Opportunities', *Biomedicines*, 9(7).

Saraon, P., Pathmanathan, S., Snider, J., Lyakisheva, A., Wong, V. and Stagljar, I. (2021a) 'Receptor tyrosine kinases and cancer: oncogenic mechanisms and therapeutic approaches', *Oncogene*, 40(24), pp. 4079-4093.

Saraon, P., Snider, J., Schormann, W., Rai, A., Radulovich, N., Sánchez-Osuna, M., Coulombe-Huntington, J., Huard, C., Mohammed, M., Lima-Fernandes, E., Thériault, B., Halabelian, L., Chan, M., Joshi, D., Drecun, L., Yao, Z., Pathmanathan, S., Wong, V., Lyakisheva, A., Aboulzadeh, F., Niu, L., Li, F., Kiyota, T., Subramanian, R., Joseph, B., Aman, A., Prakesch, M., Isaac, M., Mamai, A., Poda, G., Vedadi, M., Marcellus, R., Uehling, D., Leighl, N., Sacher, A., Samaržija, M., Jakopović, M., Arrowsmith, C., Tyers, M., Tsao, M. S., Andrews, D., Al-Awar, R. and Stagljar, I. (2021b) 'Chemical Genetics Screen Identifies COPB2 Tool Compounds That Alters ER Stress Response and Induces RTK Dysregulation in Lung Cancer Cells', *J Mol Biol*, 433(23), pp. 167294.

Saric, A. and Freeman, S. A. (2020) 'Endomembrane Tension and Trafficking', *Front Cell Dev Biol*, 8, pp. 611326.

Saric, A. and Freeman, S. A. (2021) 'Solutes as controllers of endomembrane dynamics', *Nat Rev Mol Cell Biol*, 22(4), pp. 237-238.

Saric, A., Freeman, S. A., Williamson, C. D., Jarnik, M., Guardia, C. M., Fernandopulle, M. S., Gershlick, D. C. and Bonifacino, J. S. (2021) 'SNX19 restricts endolysosome motility through contacts with the endoplasmic reticulum', *Nat Commun*, 12(1), pp. 4552.

Sartelli, M. and Coccolini, F. and Kluger, Y. and Agastra, E. and Abu-Zidan, F. M. and Abbas, A. E. S. and Ansaloni, L. and Adesunkanmi, A. K. and Atanasov, B. and Augustin, G. and Bala, M. and Baraket, O. and Baral, S. and Biffi, W. L. and Boermeester, M. A. and Ceresoli, M. and Cerutti, E. and Chiara, O. and Cicuttin, E. and Chiarugi, M. and Coimbra, R. and Colak, E. and Corsi, D. and Cortese, F. and Cui, Y. and Damaskos, D. and De' Angelis, N. and Delibegovic, S. and Demetrashvili, Z. and De Simone, B. and de Jonge, S. W. and Dhingra, S. and Di Bella, S.

and Di Marzo, F. and Di Saverio, S. and Dogjani, A. and Duane, T. M. and Enani, M. A. and Fugazzola, P. and Galante, J. M. and Gachabayov, M. and Ghnnam, W. and Gkiokas, G. and Gomes, C. A. and Griffiths, E. A. and Hardcastle, T. C. and Hecker, A. and Herzog, T. and Kabir, S. M. U. and Karamarkovic, A. and Khokha, V. and Kim, P. K. and Kim, J. I. and Kirkpatrick, A. W. and Kong, V. and Koshy, R. M. and Kryvoruchko, I. A. and Inaba, K. and Isik, A. and Iskandar, K. and Ivatury, R. and Labricciosa, F. M. and Lee, Y. Y. and Leppäniemi, A. and Litvin, A. and Luppi, D. and Machain, G. M. and Maier, R. V. and Marinis, A. and Marmorale, C. and Marwah, S. and Mesina, C. and Moore, E. E. and Moore, F. A. and Negoi, I. and Olaoye, I. and Ordoñez, C. A. and Ouadii, M. and Peitzman, A. B. and Perrone, G. and Pikoulis, M. and Pintar, T. and Pipitone, G. and Podda, M. and Raşa, K. and Ribeiro, J. and Rodrigues, G. and Rubio-Perez, I. and Sall, I. and Sato, N. and Sawyer, R. G. and Segovia Lohse, H. and Sganga, G. and Shelat, V. G. and Stephens, I. and Sugrue, M. and Tarasconi, A. and Tochie, J. N. and Tolonen, M. and Tomadze, G. and Ulrych, J. and Vereczkei, A. and Viaggi, B. and Gurioli, C. and Casella, C. and Pagani, L. and Baiocchi, G. L. and Catena, F. (2021) 'WSES/GAIS/SIS-E/WSIS/AAST global clinical pathways for patients with intra-abdominal infections', *World J Emerg Surg*, 16(1), pp. 49.

Schenkel, M., Treff, A., Deber, C. M., Krainer, G. and Schlierf, M. (2021) 'Heat treatment of thioredoxin fusions increases the purity of α -helical transmembrane protein constructs', *Protein Sci*, 30(9), pp. 1974-1982.

Selesny, S., Nguyen, V., O'Donnell, P., Kim, P. K., DiSalvo, P. and Hoffman, R. S. (2021) 'Young Female With Seizure', *Ann Emerg Med*, 78(4), pp. 500-548.

Sepiashvili, L., Alli, Z., Bohn, M. K., Hall, A., Karin, A., Murata, K. and Adeli, K. (2021) 'Complex biological patterns of soluble cytokines and CD163 in childhood necessitating age-specific reference intervals for evidence-based clinical interpretation', *Clin Biochem*, 98, pp. 35-41.

Shabani, N., Kamel Khodabandeh, A., Kathryn Bohn, M., Ghazizadeh, H., Saberi-Karimian, M., Ghafarian Zirak, R., Emamian, M., Haddadi Aval, A., Fazli, Y., Tayefi, M., Esmaily, H., Ferns, G. A., Rahnama, G., Manavi, N. M., Adeli, K. and Ghayour-Mobarhan, M. (2021) 'Normative serum lipid profiles in the Iranian adult population', *Int J Clin Pract*, 75(2), pp. e13829.

Shah, M., Taylor, V. L., Bona, D., Tsao, Y., Stanley, S. Y., Pimentel-Elardo, S. M., McCallum, M., Bondy-Denomy, J., Howell, P. L., Nodwell, J. R., Davidson, A. R., Moraes, T. F. and Maxwell, K. L. (2021) 'A phage-encoded anti-activator inhibits quorum sensing in *Pseudomonas aeruginosa*', *Mol Cell*, 81(3), pp. 571-583.e6.

Shao, Z., Masuho, I., Tumber, A., Maynes, J. T., Tavares, E., Ali, A., Hewson, S., Schulze, A., Kannu, P., Martemyanov, K. A. and Vincent, A. (2021a) 'Extended Phenotyping and Functional Validation Facilitate Diagnosis of a Complex Patient Harboring Genetic Variants in', *Genes (Basel)*, 12(9).

Shao, Z., Masuho, I., Tumber, A., Maynes, J. T., Tavares, E., Ali, A., Hewson, S., Schulze, A., Kannu, P., Martemyanov, K. A. and Vincent, A. (2021b) 'Extended Phenotyping and Functional Validation Facilitate Diagnosis of a Complex Patient Harboring Genetic Variants in MCCC1 and GNB5 Causing Overlapping Phenotypes', *Genes (Basel)*, 12(9).

Shen, Q., Wang, Y. E. and Palazzo, A. F. (2021) 'Crosstalk between nucleocytoplasmic trafficking and the innate immune response to viral infection', *J Biol Chem*, 297(1), pp. 100856.

Shen, Q., Wang, Y. E., Truong, M., Mahadevan, K., Wu, J. J., Zhang, H., Li, J., Smith, H. W., Smibert, C. A. and Palazzo, A. F. (2021) 'RanBP2/Nup358 enhances miRNA activity by sumoylating Argonautes', *PLoS Genet*, 17(2), pp. e1009378.

Shioji, N., Aoyama, K., Englesakis, M., Annich, G. and Maynes, J. T. (2021) 'Multisystem inflammatory syndrome in children during the coronavirus disease pandemic of 2019: a review of clinical features and acute phase management', *J Anesth*, 35(4), pp. 563-570.

Sinton, D. and Kelley, S. O. (2021) 'AbCellera's success is unprecedented: what have we learned?', *Lab Chip*, 21(12), pp. 2330-2332.

Sivitilli, A., Ghiasi, P. and Attisano, L. (2021) 'Production of Phenotypically Uniform Human Cerebral Organoids from Pluripotent Stem Cells', *Bio Protoc*, 11(8), pp. e3985.

Skendelas, J. P., Alemany, V. S., Au, V., Rao, D., McNelis, J. and Kim, P. K. (2021) 'Appendiceal adenocarcinoma found by surgery for acute appendicitis is associated with older age', *BMC Surg*, 21(1), pp. 228.

Sklavounos, A. A., Nemr, C. R., Kelley, S. O. and Wheeler, A. R. (2021) 'Bacterial classification and antibiotic susceptibility testing on an integrated microfluidic platform', *Lab Chip*, 21(21), pp. 4208-4222.

Song, J., Li, J. and Chan, H. S. (2021) 'Small-Angle X-ray Scattering Signatures of Conformational Heterogeneity and Homogeneity of Disordered Protein Ensembles', *J Phys Chem B*, 125(24), pp. 6451-6478.

Soroor, F., Kim, M. S., Palander, O., Balachandran, Y., Collins, R. F., Benlekbir, S., Rubinstein, J. L. and Trimble, W. S. (2021) 'Revised subunit order of mammalian septin complexes explains their in vitro polymerization properties', *Mol Biol Cell*, 32(3), pp. 289-300.

Speight, P., Rozycki, M., Venugopal, S., Szászi, K., Kofler, M. and Kapus, A. (2021) 'Myocardin-related transcription factor and serum response factor regulate cilium turnover by both transcriptional and local mechanisms', *iScience*, 24(7), pp. 102739.

Srivastava, R. A. K., Hurley, T. R., Oniciu, D., Adeli, K. and Newton, R. S. (2021) 'Discovery of analogues of non- β oxidizable long-chain dicarboxylic fatty acids as dual inhibitors of fatty acids and cholesterol synthesis: Efficacy of lead compound in hyperlipidemic hamsters reveals novel mechanism', *Nutr Metab Cardiovasc Dis*, 31(8), pp. 2490-2506.

Srivastava, R. A. K., Hurley, T. R., Oniciu, D., Adeli, K. and Newton, R. S. (2022) 'Corrigendum to "Discovery of analogues of non- β oxidizable long-chain dicarboxylic fatty acids as dual inhibitors of fatty acids and cholesterol synthesis: Efficacy of lead compound in hyperlipidemic hamsters reveals novel mechanism" [Nutr Metabol Cardiovasc Dis 31 (2021) 2490-2703]', *Nutr Metab Cardiovasc Dis*, 32(1), pp. 290-293.

Strigli, A., Gopalakrishnan, S., Zeissig, Y., Basic, M., Wang, J., Schwerd, T., Doms, S., Peuker, K., Hartwig, J., Harder, J., Hönscheid, P., Arnold, P., Kurth, T., Rost, F., Petersen, B. S., Forster, M., Franke, A., Kelsen, J. R., Rohlf, M., Klein, C., Muise, A. M., Warner, N., Nambu, R., Mayerle, J., Török, H. P., Linkermann, A., Muders, M. H., Baretton, G. B., Hampe, J., Aust, D. E., Baines, J. F., Bleich, A. and Zeissig, S. (2021) 'Deficiency in X-linked inhibitor of apoptosis protein promotes susceptibility to microbial triggers of intestinal inflammation', *Sci Immunol*, 6(65), pp. eabf7473.

Sugiyama, M. G., Cui, H., Redka, D. S., Karimzadeh, M., Rujas, E., Maan, H., Hayat, S., Cheung, K., Misra, R., McPhee, J. B., Viirre, R. D., Haller, A., Botelho, R. J., Karshafian, R., Sabatinos, S. A., Fairn, G. D., Madani Tonekaboni, S. A., Windemuth, A., Julien, J. P., Shahani, V., MacKinnon, S. S., Wang, B. and Antonescu, C. N. (2021) 'Multiscale interactome analysis coupled with off-target drug predictions reveals drug repurposing candidates for human coronavirus disease', *Sci Rep*, 11(1), pp. 23315.

Sylow, L., Tokarz, V. L., Richter, E. A. and Klip, A. (2021) 'The many actions of insulin in skeletal muscle, the paramount tissue determining glycemia', *Cell Metab*, 33(4), pp. 758-780.

Tammineni, E. R., Figueroa, L., Kraeva, N., Manno, C., Ibarra, C. A., Klip, A., Riazi, S. and Rios, E. (2022) 'Fragmentation and roles of junctophilin1 in muscle of patients with cytosolic leak of stored calcium', *J Gen Physiol*, 154(9).

Tan, J. M. J., Garner, M. E., Regeimbal, J. M., Greene, C. J., Márquez, J. D. R., Ammendolia, D. A., McCluggage, A. R. R., Li, T., Wu, K. J., Cemma, M., Ostrowski, P. P., Raught, B., Diamond, M. S., Grinstein, S., Yates, R. M., Higgins, D. E. and Brumell, J. H. (2021) 'Listeria exploits IFITM3 to suppress antibacterial activity in phagocytes', *Nat Commun*, 12(1), pp. 4999.

Tanita, K., Sakura, F., Nambu, R., Tsumura, M., Imanaka, Y., Ohnishi, H., Kato, Z., Pan, J., Hoshino, A., Suzuki, K., Yasutomi, M., Umetsu, S., Okada, C., Takagi, M., Imai, K., Ohara, O., Muise, A. M., Okada, S., Morio, T. and Kanegane, H. (2021a) 'Clinical and Immunological Heterogeneity in Japanese Patients with Gain-of-Function Variants in STAT3', *J Clin Immunol*, 41(4), pp. 780-790.

Tanita, K., Sakura, F., Nambu, R., Tsumura, M., Imanaka, Y., Ohnishi, H., Kato, Z., Pan, J., Hoshino, A., Suzuki, K., Yasutomi, M., Umetsu, S., Okada, C., Takagi, M., Imai, K., Ohara, O., Muise, A. M., Okada, S., Morio, T. and Kanegane, H. (2021b) 'Correction to: Clinical and Immunological Heterogeneity in Japanese Patients with Gain-of-Function Variants in STAT3', *J Clin Immunol*, 41(4), pp. 791-794.

Thammisetty, S. S., Renaud, L., Picher-Martel, V., Weng, Y. C., Calon, F., Saikali, S., Julien, J. P. and Kriz, J. (2021) 'Targeting TDP-43 Pathology Alleviates Cognitive and Motor Deficits Caused by Chronic Cerebral Hypoperfusion', *Neurotherapeutics*, 18(2), pp. 1095-1112.

Tiwari, V. P., Toyama, Y., De, D., Kay, L. E. and Vallurupalli, P. (2021) 'The A39G FF domain folds on a volcano-shaped free energy surface via separate pathways', *Proc Natl Acad Sci U S A*, 118(46).

Tokarz, V. L., Delgado-Olguín, P. and Klip, A. (2021) 'Deprogram and reprogram to solve the riddle of insulin resistance', *J Clin Invest*, 131(21).

Tong, K. I., Yoon, S., Isaev, K., Bakhtiari, M., Lackraj, T., He, M. Y., Joynt, J., Silva, A., Xu, M. C., Privé, G. G., He, H. H., Tiedemann, R. E., Chavez, E. A., Chong, L. C., Boyle, M., Scott, D. W., Steidl, C. and Kridel, R. (2021) 'Combined EZH2 Inhibition and IKAROS Degradation Leads to Enhanced Antitumor Activity in Diffuse Large B-cell Lymphoma', *Clin Cancer Res*.

Toyama, Y., Harkness, R. W. and Kay, L. E. (2021) 'Dissecting the role of interprotomer cooperativity in the activation of oligomeric high-temperature requirement A2 protein', *Proc Natl Acad Sci U S A*, 118(35).

Toyama, Y., Harkness, R. W., Lee, T. Y. T., Maynes, J. T. and Kay, L. E. (2021) 'Oligomeric assembly regulating mitochondrial HtrA2 function as examined by methyl-TROSY NMR', *Proc Natl Acad Sci U S A*, 118(11).

Toyama, Y. and Kay, L. E. (2021) 'Probing allosteric interactions in homo-oligomeric molecular machines using solution NMR spectroscopy', *Proc Natl Acad Sci U S A*, 118(50).

Tu, Y. X. I., Sydor, A. M., Coyaud, E., Laurent, E. M. N., Dyer, D., Mellouk, N., St-Germain, J., Vernon, R. M., Forman-Kay, J. D., Li, T., Hua, R., Zhao, K., Ridgway, N. D., Kim, P. K., Raught, B. and Brumell, J. H. (2021) 'Global Proximity Interactome of the Human Macroautophagy Pathway', *Autophagy*, pp. 1-13.

Tyler, P. M., Bucklin, M. L., Zhao, M., Maher, T. J., Rice, A. J., Ji, W., Warner, N., Pan, J., Morotti, R., McCarthy, P., Griffiths, A., van Rossum, A. M. C., Hollink, I. H. I. M., Dalm, V. A. S. H., Catanzaro, J., Lakhani, S. A., Muise, A. M. and Lucas, C. L. (2021) 'Human autoinflammatory disease reveals ELF4 as a transcriptional regulator of inflammation', *Nat Immunol*, 22(9), pp. 1118-1126.

Uhlig, H. H., Charbit-Henrion, F., Kotlarz, D., Shouval, D. S., Schwerd, T., Strisciuglio, C., de Ridder, L., van Limbergen, J., Macchi, M., Snapper, S. B., Ruemmele, F. M., Wilson, D. C., Travis, S. P. L., Griffiths, A. M., Turner, D., Klein, C., Muise, A. M., Russell, R. K. and ESPGHAN, P. I. P. g. o. (2021) 'Clinical Genomics for the Diagnosis of Monogenic Forms of Inflammatory Bowel Disease: A Position Paper From the Paediatric IBD Porto Group of European Society of Paediatric Gastroenterology, Hepatology and Nutrition', *J Pediatr Gastroenterol Nutr*, 72(3), pp. 456-473.

van der Werf-'t Lam, A. S., van Haeringen, A., Rinnen, T., Robles de Medina, R. M., Wilde, A. A. M., Hennekam, R. C. and Barge-Schaapveld, D. Q. C. M. (2022) 'Andersen-Tawil syndrome: Overlapping clinical features with Noonan syndrome?', *Eur J Med Genet*, 65(1), pp. 104382.

Vasan, L., Park, E., David, L. A., Fleming, T. and Schuurmans, C. (2021) 'Direct Neuronal Reprogramming: Bridging the Gap Between Basic Science and Clinical Application', *Front Cell Dev Biol*, 9, pp. 681087.

Wakefield, C. B., Lee, V. R., Johnston, D., Boroumand, P., Pillon, N. J., Sayedyahosseini, S., O'Donnell, B. L., Tang, J., Sanchez-Pupo, R. E., Barr, K. J., Gros, R., Flynn, L., Borradaile, N. M., Klip, A., Beier, F. and Penuela, S. (2021) 'Pannexin 3 deletion reduces fat accumulation and inflammation in a sex-specific manner', *Int J Obes (Lond)*.

Wang, L., Aschenbrenner, D., Zeng, Z., Cao, X., Mayr, D., Mehta, M., Capitani, M., Warner, N., Pan, J., Li, Q., Zuo, T., Cohen-Kedar, S., Lu, J., Ardy, R. C., Mulder, D. J., Dissanayake, D., Peng, K., Huang, Z., Li, X., Wang, Y., Wang, X., Li, S., Bullers, S., Gammage, A. N., Warnatz, K., Schiefer, A. I., Krivan, G., Goda, V., Kahr, W. H. A., Lemaire, M., Lu, C. Y., Siddiqui, I., Surette, M. G., Kotlarz, D., Engelhardt, K. R., Griffin, H. R., Rottapel, R., Decaluwe, H., Laxer, R. M., Proietti, M., Hambleton, S., Elcombe, S., Guo, C. H., Grimbacher, B., Dotan, I., Ng, S. C., Freeman, S. A., Snapper, S. B., Klein, C., Boztug, K., Huang, Y., Li, D., Uhlig, H. H., Muise, A. M. and Consortium, G. E. R. (2021) 'Gain-of-function variants in SYK cause immune dysregulation and systemic inflammation in humans and mice', *Nat Genet*, 53(4), pp. 500-510.

Wang, Z., Sargent, E. H. and Kelley, S. O. (2021) 'Ultrasensitive Detection and Depletion of Rare Leukemic B Cells in T Cell Populations via Immunomagnetic Cell Ranking', *Anal Chem*, 93(4), pp. 2327-2335.

Wessén, J., Pal, T., Das, S., Lin, Y. H. and Chan, H. S. (2021) 'A Simple Explicit-Solvent Model of Polyampholyte Phase Behaviors and Its Ramifications for Dielectric Effects in Biomolecular Condensates', *J Phys Chem B*, 125(17), pp. 4337-4358.

Westman, J. and Grinstein, S. (2020) 'Determinants of Phagosomal pH During Host-Pathogen Interactions', *Front Cell Dev Biol*, 8, pp. 624958.

Williams, D., Mehrabian, M., Arshad, H., Eid, S., Sackmann, C., Zhao, W., Wang, X., Ghodrati, F., Verkuyl, C. E., Watts, J. C. and Schmitt-Ulms, G. (2021) 'The cellular prion protein interacts with and promotes the activity of Na,K-ATPases', *PLoS One*, 16(11), pp. e0258682.

Wilson, S., Bohn, M. K. and Adeli, K. (2021) 'POCT: An Inherently Ideal Tool in Pediatric Laboratory Medicine', *EJIFCC*, 32(2), pp. 145-157.

Wilson, S., Bohn, M. K., Hall, A., Higgins, V., Abdelhaleem, M. and Adeli, K. (2021) 'Continuous reference curves for common hematology markers in the CALIPER cohort of healthy children and adolescents on the Sysmex XN-3000 system', *Int J Lab Hematol*, 43(6), pp. 1394-1402.

Xia, S., Bozóky, Z., Di Paola, M., Laselva, O., Ahmadi, S., Jiang, J. X., Pitstick, A. L., Jiang, C., Rotin, D., Mayhew, C. N., Jones, N. L. and Bear, C. E. (2021) 'High-Throughput Functional Analysis of CFTR and Other Apically Localized Proteins in iPSC-Derived Human Intestinal Organoids', *Cells*, 10(12).

Yan, B. R., Li, T., Coyaud, E., Laurent, E. M. N., St-Germain, J., Zhou, Y., Kim, P. K., Raught, B. and Brumell, J. H. (2021) 'C5orf51 is a component of the MON1-CCZ1 complex and controls RAB7A localization and stability during mitophagy', *Autophagy*, pp. 1-12.

Yanofsky, D. J., Di Trani, J. M., Król, S., Abdelaziz, R., Bueler, S. A., Imming, P., Brzezinski, P. and Rubinstein, J. L. (2021) 'Structure of mycobacterial CIII', *Elife*, 10.

Yao, Z., Drecun, L., Aboulizadeh, F., Kim, S. J., Li, Z., Wood, H., Valcourt, E. J., Manguiat, K., Plenderleith, S., Yip, L., Li, X., Zhong, Z., Yue, F. Y., Closas, T., Snider, J., Tomic, J., Drews, S. J., Drebot, M. A., McGeer, A., Ostrowski, M., Mubareka, S., Rini, J. M., Owen, S. and Stagljar, I. (2021) 'A homogeneous split-luciferase assay for rapid and sensitive detection of anti-SARS CoV-2 antibodies', *Nat Commun*, 12(1), pp. 1806.

Ye, Z., Hu, W., Wu, B., Zhang, Y., Lei, C., Williams, I., Shouval, D. S., Kanegane, H., Kim, K. M., de Ridder, L., Shah, N., Ling, G., Yerushalmi, B., Kotlarz, D., Snapper, S., Horn, R., Klein, C., Muise, A. M., Huang, Y. and Uhlig, H. H. (2021) 'Predictive Prenatal Diagnosis for Infantile-onset Inflammatory Bowel Disease Because of Interleukin-10 Signalling Defects', *J Pediatr Gastroenterol Nutr*, 72(2), pp. 276-281.

Yip, C. M. (2021) 'Molecular wayfinding: Mapping transport dynamics', *APL Bioeng*, 5(1), pp. 010401.

Yousefi, H., Mahmud, A., Chang, D., Das, J., Gomis, S., Chen, J. B., Wang, H., Been, T., Yip, L., Coomes, E., Li, Z., Mubareka, S., McGeer, A., Christie, N., Gray-Owen, S., Cochrane, A., Rini, J. M., Sargent, E. H. and Kelley, S. O. (2021) 'Detection of SARS-CoV-2 Viral Particles Using Direct, Reagent-Free Electrochemical Sensing', *J Am Chem Soc*, 143(4), pp. 1722-1727.

Zhemkov, V., Ditlev, J. A., Lee, W. R., Wilson, M., Liou, J., Rosen, M. K. and Bezprozvanny, I. (2021) 'The role of sigma 1 receptor in organization of endoplasmic reticulum signaling microdomains', *Elife*, 10.

Zhou, S., Petterson, P., Huang, J., Brzezinski, P., Pomès, R., Mäler, L. and Ädelroth, P. (2021) 'NMR Structure and Dynamics Studies of Yeast Respiratory Supercomplex Factor 2', *Structure*, 29(3), pp. 275-283.e4.