

## **NCDIR Presentations (Y9)**

1. Aitchison JD. Bioinformatics Panelist, 7th Annual UW TB Symposium University of Washington, South Lake Union Campus, Seattle, WA, USA, May 5, 2023.
2. Aitchison JD. "Exploiting viral induced vulnerabilities to combat infectious diseases", Speaker, Gordon Research Conference, RI, USA, June 12-17, 2022.
3. Chait BT. "Highly synergistic combinations of nanobodies that target SARS-CoV-2 and are resistant to escape". invited talk at the 14th Australian Peptide Conference, Vovo Gold Coast, Queensland, Australia, May 8-13, 2022.
4. Chait BT. and Aitchison JD. "Disrupting life science: How VHH antibodies will shape future research". Science Webinar, May 25, 2022, Virtual.
5. Fernandez-Martinez J. "One ring to rule them all? Structural Diversity of the Nuclear Pore Complex." Invited oral presentation, 14th International Conference on Nucleocytoplasmic Transport. Esterel Resort, Quebec, Canada. September 18-23, 2022
6. Fernandez-Martinez J. "Integrative Structural Characterization of Macromolecular Assemblies". Lecture, Biozentrum Molecular Biophysics PhD Course. Basel, Switzerland. October 20th, 2022.
7. Fernandez-Martinez J. "One Ring to Rule Them All? Comprehensive Structure and Functional Adaptations of the Nuclear Pore Complex". Invited oral presentation. Biozentrum Research Seminar, Basel, Switzerland. October 19th, 2022.
8. Fernandez-Martinez J. "Comprehensive Structure and Functional Adaptations of the Nuclear Pore Complex". Invited oral presentation, 8th International Iberian Biophysics Congress. Bilbao, Bizkaia, Spain. 20 - 21 June 2022.
9. Fernandez-Martinez J. Bio-Protocol Webinar, "New Tools of the Trade in Life Sciences: Technologies that Enable Breakthroughs" Series: "Isolation and Characterization of Endogenous Nuclear Pore Complexes". Webinar. February 15th, 2023.
10. Jacobs EY. "Using the Suzuki Method as a Framework for Improving Inclusive Excellence in Biochemistry". SJU Chemistry Faculty Meeting on Pedagogy, St. John's University, New York, NY, USA. Aug. 29th, 2022.
11. Jacobs EY. "Using Crosslinking Mass Spectrometry and Integrative Modeling to Map Epitopes of Potent Anti-Viral Nanobodies that Target Sars-CoV-2 Variant". ASMS 2022 (American Society for Mass Spectrometry annual meeting), Minneapolis MN, USA. June 5-9th, 2022.
12. LaCava J. "Protein and RNA interactomes of endogenous line-1 macromolecules". The Mobile DNA Conference (FASEB), Dublin, Ireland. June 8, 2022
13. LaCava J. "Endogenous LINE-1-associated RNA granules have unique composition and may be translationally active." Invited talk, Erasmus MC, Erasmus University Rotterdam, Rotterdam, the Netherlands. May 13, 2022
14. LaCava J. "Endogenous LINE-1-associated RNA granules have unique composition and may be translationally active." Invited talk, Hubrecht Institute, Utrecht, the Netherlands. May 12, 2022
15. LaCava J. "Multi-omic analyses of endogenous LINE-1-associated ribonucleoprotein indicates active translation and unique composition compared to other ribonucleoprotein granules". The Multiple facets of RNA in development and disease conference. Parc Valrose, Nice, France. March 16-18, 2022

16. Mast FD. "Experimental methods for identifying synergistic nanobody combinations that neutralize SARS-CoV-2" invited speaker, Bioprotocol webinars, Virtual. October 19, 2022
17. Obado S. invited talk "An alternative Mode of mRNA Export Revealed by the Study of Trypanosome Nuclear Pore Complexes". Center for Global Infectious Disease Research, Seattle Children's Research Institute, Seattle, WA, USA. March 28, 2022
18. Obado S. Stein M, Hegoduseva E, Zhang W, Glover L, Hutchison S, Paris Z, Chait BT, Field FC. Rout MP. "Molecular and Functional Dissection of Distinct mRNA Export Pathways." Cold Spring Harbor Meetings & Courses Program "Genome Organization & Nuclear Function". Cold Spring Harbor, NY, USA. May 3 - 7, 2022
19. Obado S. "Mex67 paralogs mediate division of labor in trypanosome RNA processing and export." 14th International Conference on Nucleocytoplasmic Transport. Esterel Resort, Quebec, Canada. September 18-23, 2022
20. Obado S. "An Alternative Mode of mRNA Export Revealed by the Study of Trypanosome Nuclear Pore Complexes". Invited talk, NIH Seminar Series on the Nuclear Pore, Nuclear Transport and Nuclear Envelope, November 29, 2022
21. Olinares PDB, Niu Y, Tao X, Vaisey G, Alwaseem H, MacKinnon R, Chait BT. "Native mass spectrometry characterization of the membrane protein TACAN" (poster) 2nd COMPPA Symposium on Membrane Protein Production and Analysis, New York City, New York, June 20-22, 2022
22. Olinares PDB, Kang JY, Llewellyn E, Chiu C, Chen J, Malone B, Saecker RM, Campbell EA, Darst SA, Chait BT. "Native mass spectrometry-based screening for optimal sample preparation in single particle cryo-EM" (Talk). The 2022 Rockefeller University Pels Family Center Chemical and Structural Biology Retreat, New York, New York, October 11 - 12, 2022
23. Rout MP. "Structural Dynamics of the Nuclear Pore Complex." 14th International Conference on Nucleocytoplasmic Transport. Esterel Resort, Montreal, Quebec, Canada. September 18-23, 2022.
24. Rout MP. "A Tour of the Pore: Insights into the Architecture and Function Adaptations of the Nuclear Pore Complex" The Rockefeller University Monday Lecture Series, New York, NY, USA. October 3, 2022
25. Rout MP. "Nuclear Pore Complex Structure and Transport". oral presentation at Genome Organization & Nuclear Function, Cold Spring Harbor, NY, USA. May 3 - 7, 2022
26. Rout MP. "A Tour of the Pore: Insights into the Architecture and Function Adaptations of the Nuclear Pore Complex". Invited talk at the Max Gruber Lectures, University of Groningen, Groningen, The Netherlands, October 25, 2022
27. Rout MP. "Nuclear Pore Complex Structure and Transport". Invited talk, the third Telluride Science Town Talk, "Tiny Gatekeepers of the Nano Universe: How Nuclear Pores in our Cells Separate Friend from Foe." Telluride, CO, USA. June 21, 2022
28. Sali A. "Integrative structural biology". Speaker at the NS184 Nobel Symposia on "Towards characterizing the human 3D-proteome", Stockholm, Sweden, May 19-22, 2022.
29. Sali A. "Integrative structural biology". Organizer and Speaker at the 32nd World Molecular Engineering Network Conference, Cabo San Lucas, Mexico, May 7-10, 2022.
30. Sali A. "Integrative structural biology". Speaker at the ACS Annual meeting, Barry Honig 80th birthday symposium, San Diego, CA, USA. March 20-24, 2022.

31. Udi Y. "Approaches to study the Nuclear Pore Complex in cancer". The Rockefeller University Annual Anderson Center for Cancer Research Retreat, Tarrytown, NY, USA. April 18-19, 2023
32. Van Eeuwen T. "Structure of a Transposon Reverse Transcriptase and Flanking Linkers Reveals Evidence of a Billion-Year Arms Race". The Rockefeller University Annual Anderson Center for Cancer Research Retreat, Tarrytown, NY, USA. April 18-19, 2023
33. Webb B. "Integrative modeling of macromolecular structures and networks"; EMBO, Practical Course in Practical integrative structural biology, Hamburg, Germany, November 6-13, 2022.

#### **NCDIR videoconferences (Y9)**

34. Wang J. "Improvements of Mass Spectrometric Pipeline in VHH Identification". March 10, 2022
35. Tempkin J. "Spatiotemporal integrative modeling of NPC assembly and transport". May 12, 2022
36. Van Eeuwen T. "Functional and structural characterization of structural variations and mRNP export by the Nuclear Pore Complex." June 9, 2022
37. Caffalette C. "Studying nucleocytoplasmic transport of large cargoes using nanometer-scale model particles". August 11, 2022
38. Xie S. "Dissecting the effects of O-glycosylation on protein-protein interactions in human cells". September 8, 2022
39. Jacobs E. "Structural Characterization of Bm86 Homolog Antigens". October 13, 2022
40. LaCava J. "Characterization of L1-Ribonucleoprotein Particles". November 10, 2022
41. Olinares PDB "Capturing protein complexes in action by native MS-based reaction monitoring". December 8, 2022
42. Olivier P. "Development of large repertoire of nanobodies to SARS-CoV2 spike". Jan 12, 2023
43. Udi Y. "Tools to study the mammalian NPC". Feb. 9, 2023
44. Molloy K. "Studying the Adipose Tissue Secretome to Identify Mediators of Cardio-Metabolic Health". March 9, 2023
45. Mast F. "Peroxisome in humans - roles in antiviral innate immune signaling". April 13, 2023

#### **NCDIR Presentations (Y8)**

1. Caffalette C. "Static and dynamic: The mysterious duality of nuclear basket proteins". The Institute for Systems Genetics at NYU Langone Health, New York, NY. January 20, 2022
2. Chait BT. "From Simplified Ionizations to Non-Target Screening Quantitation without Standards". Pittcon 2021 Symposium on Frontier Research in Mass Spectrometry, virtual, March 11, 2021
3. Chait BT. "The long road to proteomics". US HUPO 2021 Lifetime Achievement Award Address, virtual, March 12, 2021
4. Chait BT. "Addressing challenging problems in proteomic research". Princeton University, Butler Seminar, virtual, March 12, 2021

5. Daldegan Rezende J, Olinares PDB; Chait BT, Jacobs EY. "Identification of novel phosphorylation sites in SARS-CoV-2 Nucleocapsid protein". 69th American Society for Mass Spectrometry Conference, Philadelphia, PA. October 31 -November 4, 2021 (Poster)
6. Fridy P. "Nanobodies as proteomic tools for Dysferlin." Jain Foundation Webinar: Dysferlin Structure and Interactions, New York, NY. July 21-22, 2021 (Oral presentation)
7. Jacobs EY, Mast FD, Fridy PC, Ketaren NE, Wang J, Olivier JP, Sanyal T, Molloy KR, Schmidt F, Rutkowska M, Weisblum Y, Rich LM, Vanderwall ER, Dambrauskas N, Vigdorovich V, Keegan S, Jiler JB, Stein ME, Olinares PDB, Herlands L, Hatzioannou T, Sather DN, Debley JS, Fenyö D, Sali A, Bieniasz PD, Aitchison JD, Chait BT, Rout MP. "Harnessing miniature antibodies from llamas to fight Covid-19". St. John's University Chemistry Centennial Symposium, New York, NY, USA. November 6, 2021 (Oral presentation)
8. Jacobs EY. "Inclusive Excellence in Chemistry Pedagogy: Incorporating Anti-Racism into the Biochemistry Curriculum". St. John's University Chemistry Faculty Meeting on Pedagogy, New York, NY, USA. September 29, 2021 (Oral presentation)
9. Jacobs EY. "Mutant Ninja Llama Nanobodies against COVID-19", SJU Student Chapter American Chemical Society, New York, NY, USA. March 18, 2021 (Oral presentation)
10. LaCava J. "Driving biological discovery: An expanding toolkit for affinity proteomics". *Viiikki/HiLIFE Seminar, Helsinki Institute of Life Science*. Virtual, April 26, 2021
11. LaCava J. "Multi-omic analyses of endogenous LINE-1-associated ribonucleoprotein indicates active translation and unique composition compared to other ribonucleoprotein granules". Multiple facets of RNA in development and disease conference. Grand Chateau, arc Valrose, Nice, France. March, 16-18, 2022
12. Obado S, Stein M, Hegedusova E, Zhang W, Glover L, Hutchison S, Paris Z, Chait BT, Field MC, Rout MP. "Molecular and Functional Dissection of Distinct mRNA Export Pathways." CSHL Meeting, Expression, Purification & Analysis of Proteins & Protein Complexes. Cold Spring Harbor, NY, USA, March 30 - April 12, 2022.
13. Olinares, P.D., Malone, B., Chen, J., Llewellyn, E., Campbell, E., Darst, S., Chait, B.T. "Native MS analysis and structural characterization of the SARS-CoV-2 replication-transcription complex", 69th American Society for Mass Spectrometry Conference, Philadelphia, PA. October 31 -November 4, 2021 (in-person), November 16-17, 2021 (virtual).
14. Rezende, J.D., Olinares, P.D., Chait, B.T., Jacobs, E.Y. "Identification of novel phosphorylation sites in SARS-CoV-2 Nucleocapsid protein", 69th American Society for Mass Spectrometry Conference, Philadelphia, PA. October 31 -November 4, 2021.
15. Rout, MP. "NPC Structure and Facilitated Transport". Boston University Zoom Lecture, June 3, 2021
16. Rout, MP. "Dysferlin Structure and Interactions". Jain Conference, New York, NY, July 21-23, 2021.
17. Rout, MP. "Nanobodies for the Development of Lyme Disease Diagnostic Tests". Bay Area Lyme Foundation Gala, Sept. 18-19, 2021.
18. Rout, MP. Leukemia & Lymphoma Society (LLS) Annual Translational Research Program (TRP) Progress Meeting, Oct. 7-8, 2021. Progress Report
19. Sali A. "Integrative structural biology". Speaker at the ACS Annual meeting, Barry Honig 80th birthday symposium, San Diego, CA, March 20-24, 2022.

20. Sali A. "Integrative structural biology". Speaker at the QBI / Crick Institute Symposium on Quantitative Mapping of the Cell, London, UK, January 23-28, 2022.
21. Sali A. "Integrative structural biology". Seminar at the Department of Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, PA, October 28, 2021.
22. Sali A. "Integrative structural biology". Speaker at the CECAM Workshop: Quantifying Protein Dynamics and Allosteric regulation in the cell with emerging technologies: From Cryo-EM and NMR to Multiscale Simulations, Networks and Machine Learning, Lausanne, Switzerland, September 15-17, 2021.
23. Sali A. "Integrative structural biology". Seminar at the Bioinformatics Institute, ASTAR, Singapore, September 2, 2021.
24. Sali A. "Integrative structural biology". Speaker at the XXV IUCr Congress Satellite Meeting on "Macromolecular Machines in Biomedicine: Structure, Dynamics, and Evolution", Prague, Czech Republic, August 21-22, 2021.
25. Sali A. "Integrative structural biology". Speaker at the 2021 ACA Meeting Transactions Symposium, Function Follows Form: Celebrating the 50th Anniversary of the Protein Data Bank", Baltimore, MD, July 31, 2021.
26. Sali A. "Integrative structural biology". Seminar at the Basel University, Basel, Switzerland, May 17, 2021.
27. Sali A. "Integrative structural biology". Speaker at the Workshop on Strategy for future EMBL research infrastructures in the Life Sciences in Hamburg, Hamburg, Germany, April 19-20, 2021.
28. Sanyal T. Molloy K. Chait BT and Sali A. "Playing Bayesian Jigsaw with PDB structures: Optimizing Rigid Body Representations for Integrative Modeling". Poster, PDB50: A special symposium celebrating the 50th anniversary of the Protein Data Bank, American Society for Biochemistry and Molecular Biology, virtual, May 5, 2021
29. Sanyal T and Sali A. Oral presentation: "Playing Bayesian Jigsaw with PDB Structures: Optimizing Rigid Body Representations for Integrative Modeling of Macromolecular Complexes". American Institute for Chemical Engineers Annual meeting, Boston (in-person) and virtual, Nov 7-19, 2021
30. Sanyal T and Sali A. Oral presentation: "Rigid-Body Assignment in Integrative Determination of Protein Complex Structures". Biophysical Society 66th Annual Meeting, San Francisco, CA, Feb 19-23, 2022
31. Wei L, Neal ML, Vijayan K, Sravanam S, Peterson E, Arrieta-Ortiz ML, Danziger SA, Baliga NS, Aitchison JD, Kaushansky A. "Systems-level gene regulatory network model for Plasmodium falciparum reveals the correlation of parasite transcriptional variation with artemisinin sensitivity." American Society for Tropical Medicine and Hygiene Meeting 2021 (Virtual).

#### **NCDIR videoconferences (Y8)**

32. Navare A. "Exploring viral-induced vulnerability for developing pan-viral therapeutics" April 8, 2021
33. Tempkin J. "Integrative spatiotemporal modeling of the human Nuclear Pore Complex assembly after mitosis". May 13, 2021
34. Zhang WZ. "MS Label-Free Quantitation for TB Drug Target Determination". June 10, 2021
35. Ketaren N. "Diversity of Nanobody-Antigen Encounter Complexes". July 8, 2021
36. Duffy F. "Applying a mouse model of contained TB infection to understand human TB immunity". Aug 12, 2021

37. Webb B. "Using Integrative Modeling Platform to compute, validate, and archive a model of a protein complex structure". September 9, 2021
38. Upla P. "Towards the structure of the Trypanosoma brucei nuclear pore complex". October 14, 2021
39. Hozeifi S. "Revisiting LINE-1 interactomics and its dynamic changes during drug treatment". November 11, 2021
40. Kumar S. "Characterization of Nup170 interactome". December 9, 2021
41. Echeverria I. "Integrative structure of the Nuclear Pore Complex: towards a complete description of the Nuclear Pore Complex." January 13, 2022

### **NCDIR Presentations (Y7)**

1. LaCava J. "Driving biological discovery: An expanding toolkit for affinity proteomics." HUPO Proteomics Standards Initiative, virtual, March 23, 2020.
2. LaCava J. 25th Annual Meeting of the RNA Society, virtual, May 26-31, 2020
3. Olinares PD, Chen J, Chiu C, Kang JY, Lewellyn E, Saecker R, Campbell E, Darst S, Chait BT. "Check before you plunge: native MS as a diagnostic and screening platform in preparing macromolecular assemblies for cryo-EM analysis" (Poster). 68th American Society for Mass Spectrometry Reboot Annual Conference on Mass Spectrometry and Allied Topics, virtual, June 1-12, 2020.
4. Olinares PD. "Check before you plunge: Native MS-based screening for optimal sample preparation in cryo-EM (Talk)". Sanofi and Thermo-Scientific Virtual LC-MS Symposium, virtual, October 13, 2020.
5. Olinares PD. "Native mass spectrometry-based characterization of viral nucleoprotein assemblies (Talk)" Fordham University Lincoln Center Science Club Lecture, virtual, December 3, 2020.
6. Olinares PD. "Native mass spectrometry-based screening for optimal sample preparation in single particle cryo-EM (Webinar talk); Thermo Fisher Integrative Structural Biology Webinar Series, February 2021
7. Obado S. "Molecular and Functional Dissection of Distinct mRNA Export Pathways" (Oral presentation) BSP (British Society Parasitology) Trypanosomiasis & Leishmaniasis Seminar Granada 2020. Parasite Molecular and Cell Biology, virtual, March 10, 2020.
8. Rout MP. "Rapid Production of Versatile Nanobody Repertoires" (Talk), Pathology and Laboratory Medicine Lecture Series: Grand Rounds, virtual, January 25, 2021.
9. Sali A. "Integrative structural biology". Seminar, Institute of Pharmacology and Structural Biology, Toulouse, France. January 12, 2021.
10. Sali A. "Integrative structural biology". Seminar, ASEF Speaker Series. Virtual, December 17, 2020.
11. Sali A. "Integrative structural biology". EMBL Conference: In situ Structural Biology - From Cryo-EM to Integrative Modelling. Virtual, August 12, 2020.
12. Sali A. "Integrative structural biology". BIOVIA Virtual User Conference. September 23, 2020.
13. Sali A. "Integrative structural biology". QBI/Weizmann Institute Symposium. Virtual, July 15, 2020.

### **NCDIR videoconferences (Y7)**

14. Rout MP. "Going green: Exploring Chlamydomonas Proteomes by Subcellular Fractionation". August 6, 2020.
15. Herricks T. "ODELAY, Characterizing growth rate distributions and Nup170 mutants" August 13, 2020.
16. Obado S. "Molecular and Functional Dissection of Distinct mRNA Export Pathways." October 8, 2020.
17. Olinares PO. "Native MS-based screening for optimal sample preparation in cryo-EM." November 12, 2020.
18. Mast F. "Image analysis pipeline for profiling mTOR dynamics in dengue-infected cells." December 10, 2020.
19. Oghbaie M. "Proteogenomic analysis of endogenous L1 in human embryonic carcinoma cell lines." January 14, 2021.
20. Fridy P. "Nanobodies against SARS-CoV-2." February 11, 2021.

### **NCDIR External Advisory Committee meeting**

21. Rout MP. "NCDIR overview and challenges during pandemic". Virtual, November 9, 2020.
22. Chait BT. "Interatomic challenges that we address with the NCDIR". Virtual, November 9, 2020.
23. Sali A. "Multiscale spatiotemporal modeling of macromolecular systems in cellular neighborhoods". Virtual, November 9, 2020.
24. Aitchison JD. "The NCDIR: Driving Biological Projects". Virtual, November 9, 2020.
25. Ketaren N. "User training and dissemination". Virtual, November 9, 2020.
26. LaCava J. "Outreach and community engagement". Virtual, November 9, 2020.

### **NCDIR Presentations (Y6)**

1. Aitchison A. "Characterization of Peroxisomal Regulation Networks." 2019 International Peroxisome Conference, Munich, Germany.
2. Aitchison A. "Characterization of Peroxisomal Regulation Networks." Healthcare research & innovation: An Xconomy Insight / Seattle Children's conference and networking event, Seattle, WA, USA, November 6, 2019.
3. Chait BT. "Method for Determining the Mass, Composition and Stoichiometry of Macromolecular Assemblies". EPIC-XS Conference, Davos, Switzerland January 29-31, 2020.
4. Chait BT. "Integrative Methods for Elucidating the Structure & Function of Cellular Machines". The Jain Foundation Eighth Dysferlin Conference Orlando, FL, USA, March 11 - 14, 2020.
5. Fernandez-Martinez J. Invited speaker, Department of Biology Special Seminar: "Poring Over the Pore: Structural and Functional Anatomy of the Nuclear Pore Complex". Johns Hopkins University, Baltimore, February 5, 2019.
6. Fernandez-Martinez J. "Structural and Functional Anatomy of a Nuclear Pore Complex". Invited speaker, Biophysics Institute, Bilbao, Spain. August 12, 2019.

7. Fernandez-Martinez J. "Structural Characterization of the Trypanosoma brucei NPC Outer Ring Complex". *Authors:* Javier Fernandez-Martinez, Obado S., Upla P., Shi Y., Stokes DL., Chait BT., Rout MP. Nucleocytoplasmic Transport 2019 Meeting, Peebles Hydro, Scotland. August 25-30 2019.
8. Fridy P. "Investigating the Dysferlin Interactome and Structure Using Nanobodies". The Jain Foundation Eighth Dysferlin Conference Orlando, FL, USA, March 11 - 14, 2020.
9. Fridy P. "Nanobodies for cancer diagnostics and therapeutics." Anderson Center for Cancer Research Retreat, Tarrytown, NY, USA, April 1-3, 2020.
10. LaCava J. "Driving biological discovery: An expanding toolkit for affinity proteomics." Bioprocessing Summit, Boston, MA, USA, August 16, 2019
11. LaCava J. "Driving biological discovery: An expanding toolkit for affinity proteomics." Copenhagen Center for Glycomics, Copenhagen, Denmark, November 15, 2019
12. LaCava J. "Driving biological discovery: An expanding toolkit for affinity proteomics." Invited speaker, University of Bern, Bern, Switzerland, February 24, 2020
13. LaCava J. "Driving biological discovery: An expanding toolkit for affinity proteomics." Invited speaker, The European Bioinformatics Institute, Hinxton UK, February 28, 2020
14. LaCava J. "Driving biological discovery: An expanding toolkit for affinity proteomics." HUPO PSI meeting, San Diego, CA, USA, March 23, 2020
15. LaCava J. "Driving biological discovery: An expanding toolkit for affinity proteomics." Invited speaker, Erasmus University Medical Center, Rotterdam, The Netherlands, April 7, 2020
16. LaCava J. "Driving biological discovery: An expanding toolkit for affinity proteomics." Invited talk, University of Helsinki, Helsinki, Finland, April 27, 2020
17. Olinares PDB, Chiu C, Chen J, Kang JY, Lewellyn E, Campbell E, Darst S, Chait BT. "Native mass spectrometry-based platform for screening optimal conditions in preparing intact macromolecular assemblies for cryo-EM analysis." 67th American Society for Mass Spectrometry Annual Conference on Mass Spectrometry and Allied Topics, Atlanta, Georgia, June 2 -6, 2019
18. Olinares PDB, Chiu C, Chen J, Kang JY, Lewellyn E, Campbell E, Darst S, Chait BT. "Interfacing high-resolution native mass spectrometry with structural analysis of protein assemblies." The Rockefeller University Postdoctoral Association Retreat, New Paltz, New York, September 19-20, 2019
19. Rout MP. "A Hole New View: Structure-Function Mapping of the Nuclear Pore Complex." NICHD/DMCB Seminar, NIH, Bethesda, MD, USA, March 1, 2019.
20. Rout MP. "A Hole New View: Structure-Function Mapping of the Nuclear Pore Complex." Invited Speaker, Biophysical Society 63rd Annual Meeting, symposium, "Large Macromolecular Machines in the Cell" Baltimore, MD, USA, March 2-5, 2019
21. Rout MP. "A Hole New View: Structure-Function Mapping of the Nuclear Pore Complex." Invited seminar speaker, Pasteur Institute. Paris, France, April 10, 2019.
22. Rout MP. "A Hole New View: Structure-Function Mapping of the Nuclear Pore Complex." Invited seminar speaker, Institut Jacques Monod, Paris, France, April 16, 2019.
23. Rout MP. "A Hole New View: Structure-Function Mapping of the Nuclear Pore Complex." Invited Speaker, Kyoto Sangyo University, Japan, June 21, 2019.



24. Rout MP. "Dynamics and Evolution of the Nuclear Pore Complex." Plenary Speaker, Joint Annual Meeting of 71st Japanese Society of Cell Biology and 19th Protein Science Society of Japan, Kobe, Japan, June 24-26, 2019.
25. Rout MP. "A Hole New View: Structure-Function Mapping of the Nuclear Pore Complex." Second New York Area CryoEM Meeting, NYSBC, New York, NY, USA, August 15, 2019.
26. Rout MP. "A Hole New View: Structure-Function Mapping of the Nuclear Pore Complex." Invited seminar speaker, Laboratory of Molecular Biology, Cambridge, UK, August 23, 2019.
27. Rout MP. "A Hole New View: Structure-Function Mapping of the Nuclear Pore Complex." NT19: Nucleocytoplasmic Transport 2019; Peebles Hydro, UK, August 25-30, 2019.
28. Rout MP. "A Hole New View: Structure-Function Mapping of the Nuclear Pore Complex." 8th Jain Foundation Dysferlin conference in Orlando, FL, USA, March 10-13, 2020.
29. Rout MP. "Dynamics and Evolution of the Nuclear Pore Complex." Anderson Cancer Retreat, Tarrytown, NY, USA. April 1-3, 2020.
30. Rout MP. "Dynamics and Evolution of the Nuclear Pore Complex." Wellcome Centre for Cell Biology ISAB, University of Edinburgh, Edinburgh, UK, April 27-30, 2020.
31. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Seminar at the NSLS-II BNL, Long Island, NY, USA, April 9, 2020.
32. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Speaker at the QBI / Crick Institute Symposium on Quantitative Mapping of the Cell, London, UK, April 6, 2020.
33. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Speaker at the Understanding Biology Through Structure, Santa Fe, New Mexico, Mexico, March 19, 2020.
34. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Speaker, G.N. Ramachandran Memorial Lecture at the Indian Biophysical Society 2020 Meeting, Mumbai, India, March 12, 2020.
35. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Lecture in the Structural Biology Course at the Scripps Research Institute San Diego, CA, USA, February 25 & 27, 2020.
36. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Speaker at the iHuman Institute, ShanghaiTech, Shanghai, China, December 18, 2019.
37. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Speaker at the TAU QBI Meeting, Tel Aviv, Israel, December 4, 2019.
38. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Speaker at the Structural Proteomics Meeting, Goettingen, Germany, November 3, 2019.
39. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Lecturer in the XX Course at the Rockefeller University, New York City, NY, USA, October 8, 2019.
40. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Speaker at the EMBL Multiomics Meeting, Heidelberg, Germany, September 11, 2019.
41. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Speaker at the QBI FU Berlin Meeting, Berlin, Germany, May 26, 2019.

42. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Speaker at the INSTRUCT Biennial Meeting, Madrid, Spain, May 22, 2019.
43. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Organizer and Speaker at the 29th World Molecular Engineering Network Conference, Cabo San Lucas, Mexico, May 4-7, 2019.
44. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Speaker at Section 29 National Academy of Sciences Annual Meeting, DC, April 28, 2019.
45. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Speaker at the ACS Annual Meeting, Orlando, Florida, USA, March 30, 2019.
46. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Lecturer in the Structural Biology Course at the Scripps Research Institute San Diego, CA, USA, March 15-16, 2019.
47. Sali A. "Integrative Modeling of Biomolecular Assembly Structures and Pathways." Speaker Organizer of the 63rd Annual Meeting of the Biophysical Society, Baltimore, MD, USA, Mar 2-6, 2019.
48. Wang J. "Overcome the Challenges in CX-MS." The Jain Foundation Eighth Dysferlin Conference Orlando, FL, USA, March 11 - 14, 2020.

#### **NCDIR videoconferences (Y6)**

49. Fernandez-Martinez J. "NPC Structure 3.0." June 13, 2019.
50. Wang J. "Overcome the Challenges in CX-MS." August 8, 2019.
51. Echeverria I. "Integrative structure of the nuclear pore complex v3.0." September 12, 2019.
52. Serganov A. "Elucidating the effects of picornavirus proteases on the mammalian nuclear pore complex and nucleocytoplasmic trafficking." October 10, 2019.
53. Jacobs E. "Structural Characterization of Bm86 Homolog Antigens." November 14, 2019.
54. Kumar S. "Structural-function analysis of Nup170." December 12, 2019.
55. Sanyal T. "Integrative modeling of the CMG-Mcm10" complex." January 9, 2020.
56. Udi Y. "Altered Communication between the nucleus and the mitochondria under oncogenic states." February 13, 2020.