

APPENDIX XII.

CONFERENCE & SEMINAR PRESENTATIONS

by members of the Medical Physics Unit : 2023 calendar year (x 80)

(in multiple author entries, presenter is indicated by an asterisk *)

(the names of staff members of the MPU are underlined, students are indicated by †)

1. S. Quetin†, F. Maleki, *Transfer learning for image classification*, Artificial Intelligence Research School (AIRS), University of Calgary, Calgary, Alberta, March 19, 2023. Oral presentation.
2. S. Quetin†, *Python programming foundation*, Sprint AI Training for African Medical Imaging Knowledge – SPARK Africa Academy, April 09, 2023. Virtual presentation.
3. S. Quetin†, S.A. Enger, *Artificial-Intelligence based dose calculation in brachytherapy*, Medical Physics Unit Friday Morning Seminar Series, McGill University, Montreal, Quebec, April 14, 2023. Oral presentation.
4. L.M. Wang†, M. Serban, O. Arias, Y. Yui, J. Seuntjens, N. Ybarra, *Radio-selective effects of a naturally occurring muscle-derived dipeptide in an orthotopic lung cancer model*, International Congress on Academic Medicine (ICAM), Quebec City, Quebec, April 12-18, 2023. Poster presentation.
5. V.J. Heng†, M. Serban, M-A. Renaud, C.R. Freeman, J. Seuntjens, *Treatment planning study of mixed electron-photon beam radiation therapy for soft tissue sarcoma of the lower extremity*, UTDRO/STARS21 Research Day, Toronto, Ontario, May 09, 2023. Poster presentation.
6. H. Jafarzadeh†, *Hyper parameter tuning of mixed integer optimization using multi-objective Bayesian optimization in treatment planning of high dose rate brachytherapy for prostate cancer*, Biological & Biomedical Engineering Symposium, McGill University, Montreal, Quebec, May 11, 2023.
7. N. Tomic, A. Esmaelbeigi†, J. Kalinowski†, S.A. Enger, T. Vuong, S. Devic, *Commissioning of new rectal applicator using electronic brachytherapy source*, Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Vienna, Austria, May 12-16, 2023.
8. L. Carroll†, S.A. Enger, *Design and assembly of a non-invasive radiation detector to measure the arterial input function in dynamic positron emission tomography*, Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Vienna, Austria, May 12-16, 2023. Oral presentation.
9. J. Kalinowski†, S.A. Enger, *Implementation and validation of TG-43 table-based dose calculations in RapidBrachytherapyMCTPS*, Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Vienna, Austria, May 12-16, 2023. Poster presentation.
10. C.M. Lund†, P.M. Jung, M.J. Maher†, J. Bancher†, T. Planche, R. Baartman, J. Seuntjens, *Longitudinal stability in the dielectric wall accelerator through time-varying accelerating fields*, Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Vienna, Austria, May 12-16, 2023. Poster presentation.
11. S. Quetin†, B. Bahoric, F. Maleki, S.A. Enger, *Artificial-Intelligence based high precision brachytherapy dose calculation*, Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Vienna, Austria, May 12-16, 2023. Oral presentation.
12. A. Thibodeau-Antonacci†, L. Weishaupt, A. Garant, C. Miller, T. Vuong, P. Nicolai, S.A. Enger, *Deep learning-based automatic segmentation of rectal tumors in endoscopy images*, Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Vienna, Austria, May 12-16, 2023. Poster presentation.
13. Y. Zou†, M. Lecavalier-Barsoum, M. Pelmus, S.A. Enger, *Impact of tumor nuclei size variation for post radiotherapy recurrence outcome of GYN patients*, Annual Meeting of the European Society for Radiotherapy & Oncology (ESTRO), Vienna, Austria, May 12-16, 2023. Poster presentation PD-0168.
14. K. O'Sullivan-Stebent† et al, *Predicting anatomical changes in head and neck cancer patients undergoing radiotherapy*, Practical Big Data Workshop, Ann Arbor, Michigan, May 18-20, 2023. Poster presentation.
15. J. Campos-Pazmino†, M-A. Fortin, V. Fortier, A. van der Kouwe, C. Ciobanu†, E. McNabb, I.R. Levesque, *Fat-water separated relaxation mapping with multi-echo MP2RAGE*, Journée Scientifique du Réseau de Bio-Imagerie du Québec, Laval, Quebec, May 25, 2023. Oral presentation.

16. T. Chaudhry, R. Chepchirchir, J. Sunday, Y. Zou^{†*}, *Optimized U-net for brain tumor segmentation for the BRaTS-Africa challenge*, Team supervisor^{*}, Brain and Mind Institute, The Aga Khan University, Nairobi, Kenya, May 26, 2023.
17. C. Ciobanu[†], J. Campos-Pazmino[†], V. Fortier, I.R. Levesque, *Proton MRI-based oximetry*, 31st Annual Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM-ISMRT), Toronto, Ontario, June 03-08, 2023. Poster.
18. L. Carroll[†], *RADIAN-PET: Towards accessible dynamic positron emission tomography*, Annual Celebration of Research & Training in Oncology (CORTO), McGill University Department of Oncology, Montreal, Quebec, June 08, 2023. Oral presentation.
19. J. Kalinowski[†], T. Vuong, S.A. Enger, *Clinical translation of rectal intensity modulated brachytherapy for feasibility and safety studies*, Annual Celebration of Research & Training in Oncology (CORTO), McGill University Department of Oncology, Montreal, Quebec, June 08, 2023. Poster presentation.
20. M. Cyr[†], V. Diaz Martinez[†], S. Devic, N. Tomic, D.F. Lewis, S.A. Enger, *Investigation of the dosimetry characteristics of the GAFCHROMIC[®] EBT3 film response to alpha particle irradiation*, International Conference on 3D and Advanced Dosimetry (IC3DDose), Quebec City, Quebec, June 19-23, 2023. Oral presentation.
21. S. Quetin[†], B. Bahoric, F. Maleki, S.A. Enger, *Artificial-Intelligence based high precision brachytherapy dose calculation*, Temerty Centre for AI Research & Education in Medicine, University of Toronto, Toronto, Ontario, June 21, 2023. Virtual presentation.
22. M. Cyr[†], *A feasibility study: Insertion of inert Alpha DaRT seeds in orthotopic rectal mice models*, Annual conference of the American Brachytherapy Society (ABS), Vancouver, British Columbia, June 22-24, 2023. Snap oral presentation.
23. M. Rahbaran[†], J. Kalinowski[†], J.M.G. Tsui, J. DeCunha, K. Croce, B. Bergmark, P. Devlin, S.A. Enger, *Development of a novel dosimetry software for patient-specific intravascular brachytherapy treatment planning on optical coherence tomography images*, Annual conference of the American Brachytherapy Society (ABS), Vancouver, British Columbia, June 22-24, 2023. Oral presentation.
24. H. Jafarzadeh, *Hyper-parameter tuning and validation of deep learning for segmentation*, Sprint AI Training for African Medical Imaging Knowledge – SPARK Africa Academy, July 08, 2023. Virtual presentation.
25. S. Quetin[†], *Compute Canada cluster computing*, 60-minute Workshop, Sprint AI Training for African Medical Imaging Knowledge Translation Academy – SPARK Africa Academy, July 15, 2023. Virtual presentation.
26. D.A. Di Giovanni, P. Coupe, D. Bzdok, D.L. Collins, *Image entropy and numeric representation for MRI semantic segmentation*, Medical Imaging with Deep Learning Conference, Nashville, Tennessee, July 10-12, 2023. Short paper presentation.
27. D. Andrews, D.L. Arnold, D. Bzdok, S. Ducharme, H. Chertkow, D.L. Collins, *Alzheimer’s Disease Neuroimaging Initiative, Simulation-based effect size analysis in the absence of drug effects to inform the design of clinical trials in Alzheimer’s disease*, Alzheimer’s Association International Conference, Amsterdam, The Netherlands, July 16-20, 2023. Poster presentation.
28. S. Fernandez-Lozano, V.S. Fonov, M. Dadar, D.L. Collins, *Alzheimer’s Disease Neuroimaging Initiative, Hippocampal-to-ventricle ratio (HVR) is better related to age and cognition than hippocampal volume*, Alzheimer’s Association International Conference, Amsterdam, The Netherlands, July 16-20, 2023. Poster presentation.
29. S. Fernandez-Lozano, V.S. Fonov, M. Dadar, D.L. Collins, *Do we really need to normalize hippocampal volume?* Alzheimer’s Association International Conference, Amsterdam, The Netherlands, July 16-20, 2023. Poster presentation.
30. V.S. Fonov, T. Nazneen, P. Rosa-Neto, D.L. Collins, *In vivo data-driven patterns of Tau accumulation associated with AD progression using 18F-MK-6240 PET*, Alzheimer’s Association International Conference, Amsterdam, The Netherlands, July 16-20, 2023. Poster presentation.
31. C. Morrison, M. Dadar, F. Kamal, D.L. Collins, *Differences in pathology, brain atrophy, and WMHs across APOE subtypes*, Alzheimer’s Association International Conference, Amsterdam, The Netherlands, July 16-20, 2023. Poster presentation.
32. N. Shafiee, D.L. Collins, *Using subject-specific disease progression as an estimation of the disease time to model longitudinal neurodegeneration in AD*, Alzheimer’s Association International Conference, Amsterdam, The Netherlands, July 16-20, 2023. Poster presentation.
33. N. Shafiee, M. Dadar, R.N. Spreng, D.L. Collins, *Nucleus basalis of Meynert degeneration starts in the earliest stages of Alzheimer’s disease: A deformation-based morphometry analysis*, Alzheimer’s Association International Conference, Amsterdam, The Netherlands, July 16-20, 2023. Poster presentation.

34. N. Shafiee, V.S. Fonov, D.L. Collins, *Visualizing Braak stages with deformation-based morphometry in super-sampled MRI*, Alzheimer's Association International Conference, Amsterdam, The Netherlands, July 16-20, 2023. Poster presentation.
35. N. Shafiee, C. Morrison, M. Dadar, V.S. Fonov, R.N. Spreng, D.L. Collins, *Deformation-based morphometry analysis shows early degeneration in nucleus basalis of Meynert in subjective cognitive decline*, Alzheimer's Association International Conference, Amsterdam, The Netherlands, July 16-20, 2023. Poster presentation.
36. V.S. Fonov, D.L. Collins, *How many brain scans are enough*, Organization for Human Brain Mapping (OHBM) Conference, Montreal, Quebec, July 22-26, 2023. Poster presentation.
37. V. Madge, V.S. Fonov, A. Bailey, A. Dagher, E. Ron, R.B. Postuma, D.L. Collins, *Towards an automatic longitudinal neuromelanin pipeline for Parkinson's Disease*, Organization for Human Brain Mapping (OHBM) Conference, Montreal, Quebec, July 22-26, 2023. Poster presentation.
38. C. Morrison, M. Dadar, D.L. Collins, *The influence of sex on white matter hyperintensity burden*, Organization for Human Brain Mapping (OHBM) Conference, Montreal, Quebec, July 22-26, 2023. Poster presentation.
39. R. Rajabli, V.S. Fonov, D.L. Collins, *Brain age prediction with scarce age labels: A semi-supervised approach*, Organization for Human Brain Mapping (OHBM) Conference, Montreal, Quebec, July 22-26, 2023. Poster presentation.
40. E. St-Onge, D.L. Collins, *TractoSearch: Group, register and segment tractography streamlines*, Organization for Human Brain Mapping (OHBM) Conference, Montreal, Quebec, July 22-26, 2023. Poster presentation.
41. E. St-Onge, V. Madge, N. Shafiee, V.S. Fonov, M. Sharp, D.L. Collins, *Investigating diffusion-based measures in Parkinson's Disease*, Organization for Human Brain Mapping (OHBM) Conference, Montreal, Quebec, July 22-26, 2023. Poster presentation.
42. N. Tomic, L. Liang, A. Esmaelbeigi†, J. Kalinowski†, S.A. Enger, T. Vuong, S. Devic, *Xoft new rectal applicator using electronic brachytherapy source commissioning*, Annual Meeting of the American Association of Physicists in Medicine (AAPM), Houston, Texas, July 23-27, 2023.
43. J. Bancher†, J. Seuntjens, *A semi-analytical procedure to determine the ion recombination correction factor in high dose-per-pulse beams*, Annual Meeting of the American Association of Physicists in Medicine (AAPM), Houston, Texas, July 23-27, 2023.
44. Y. Zou†, P. Bagherzadeh†, K. Sultanem, F. Maleki, S.A. Enger, *Combination of prognostic clinical features and natural language processing based pathology reports text embeddings for prediction of three-year overall survival of patients with head and neck squamous cell carcinoma*, Proc. Annual Meeting of the American Association of Physicists in Medicine (AAPM), Houston, Texas, July 23-27, 2023. Poster presentation.
45. P. Bagherzadeh†, Y. Zou†, K. Sultanem, F. Maleki, S.A. Enger, *Using textual pathology reports for head and neck cancer treatment outcome prediction*, Proc. Annual Meeting of the American Association of Physicists in Medicine (AAPM), Houston, Texas, July 23-27, 2023. Poster presentation.
46. J. Campos-Pazmino†, M. Fortin, V. Fortier, A. van der Kouwe, C. Ciobanu†, E. McNabb, R-C. Bidert, I.R. Levesque, *Towards a relaxation-based MR-oximetry technique for the measurement of absolute oxygen partial pressure in brown adipose tissue*, Cancer Research Program (CRP) Research Day, Montreal, Quebec, August 11, 2023.
47. L. Carroll†, O. Sarrhini, J.F. Beaudoin, E. Croteau, L. Convert, R. Lecomte, S.A. Enger, *Characterization of Radian-PET, a non-invasive arterial input function detector for dynamic PET*, 17th International Congress of Radiation Research (ICRR), Montreal, Quebec, August 27-30, 2023. Poster presentation.
48. J. Kalinowski†, J. Reid†, J. Munro III, H. Bekerat, A. Armstrong, T. Vuong, S.A. Enger, *Intensity modulated brachytherapy delivery system for treatment of rectal cancer combined with a selenium-75 source*, 17th International Congress of Radiation Research (ICRR), Montreal, Quebec, August 27-30, 2023. Poster presentation.
49. F. Mathew†, J. Kildea, *Drawing parallels: Monte Carlo single-cell irradiation simulations to compare to single-cell DNA sequencing experiments*, 17th International Congress of Radiation Research (ICRR), Montreal, Quebec, August 27-30, 2023. Poster presentation.
50. L.M. Wang†, R. Yadav†, M. Serban, O. Arias, J. Seuntjens, N. Ybarra, *Radio-selective effects of a naturally occurring muscle-derived dipeptide in an orthotopic lung cancer model*, 17th International Congress of Radiation Research (ICRR), Montreal, Quebec, August 27-30, 2023. Poster presentation.
51. H. Jafarzadeh†, S.A. Enger, *Machine learning operations with MedPerf Framework*, Sprint AI Training for African Medical Imaging Knowledge – SPARK Africa Academy, August 28, 2023. Virtual presentation.
52. O. Rios Ibacache†, *Development and evaluation of a novel artificial intelligence model to predict radiotherapy replanning for head and neck cancer*, Science Slam Competition, 5th International Summer School in Medical

- Physics 2023: Data Science & Machine Learning in Radiotherapy, Heidelberg, Germany and virtual. Oral presentation.
53. B. Wan, I.J. Gerard, P. Pater, T. Connell, J. Alfieri, *The impact of a student-led radiation oncology interest group on medical learner interest and access to the specialty*, Joint Scientific Meeting of CARO-COMP, Montreal, Quebec, September 20-23, 2023. Poster presentation.
 54. D.S. Ayala Alvarez[†], P.G.F. Watson, M. Popovic, V.J. Heng[†], M.D.C. Evans, V. Panet-Raymond, J. Seuntjens, *Evaluation of organ absorbed doses in intraoperative radiotherapy of glioblastoma*, Joint Scientific Meeting of CARO-COMP, Montreal, Quebec, September 20-23, 2023. Poster presentation.
 55. I.J. Gerard, V. Anglesio, S. Konermann[†], M. Bernier, T. Hijal, N. Kopek, P. Pater, G. Stroian, B. Toscani, J. Alfieri, *Toxicity and one year outcomes in a series of 6 patients receiving stereotactic arrhythmia radioablation for ventricular tachycardia*, Joint Scientific Meeting of CARO-COMP, Montreal, Quebec, September 20-23, 2023. Poster presentation.
 56. M. Cyr[†], B. Behmand, N. Chabayta[†], J. Babik, S.A. Enger, *Reduction of metal artifacts in 7T MRI for pre-clinical diffusion alpha-emitting radiation therapy rectal studies*, Joint Scientific Meeting of CARO-COMP, Montreal, Quebec, September 20-23, 2023. Poster presentation.
 57. V.J. Heng[†], M-A. Renaud, M. Serban, J. Seuntjens, *Impact of range uncertainties on robust mixed electron-photon beam radiation therapy*, Joint Scientific Meeting of CARO-COMP, Montreal, Quebec, September 20-23, 2023. Poster presentation.
 58. J. Kalinowski[†], T. Vuong, S.A. Enger, *Toward the translation of rectal intensity modulated brachytherapy for feasibility and safety studies*, Joint Scientific Meeting of CARO-COMP, Montreal, Quebec, September 20-23, 2023. Oral presentation (M. Rahbaran[†]).
 59. J. Kalinowski[†], S.A. Enger, *RapidBrachyTG43: A TG-43 parameter and dose calculation model for RapidBrachyMCTPS*, Joint Scientific Meeting of CARO-COMP, Montreal, Quebec, September 20-23, 2023. Oral presentation (M. Rahbaran[†]).
 60. C.M. Lund[†], P.M. Jung, M.J. Mahert[†], J. Bancherit[†], T. Planche, R. Baartman, J. Seuntjens, *Towards low-cost photon therapy: A novel approach to longitudinal beam stability in the dielectric wall accelerator*, Joint Scientific Meeting of CARO-COMP, Montreal, Quebec, September 20-23, 2023. Oral presentation.
 61. F. Mathew[†], J. Kildea, *Cracking the code of radiation: Unveiling cell mutations through genome sequencing (Where's Waldo in radiation-associated second cancer?)*, Science Spoken Succinctly Competition, Joint Scientific Meeting of CARO-COMP, Montreal, Quebec, September 20-23, 2023. Oral presentation.
 62. K. O'Sullivan-Stebent[†] et al, *Predicting anatomical changes in head and neck cancer patients*, Science Spoken Succinctly Competition, Joint Scientific Meeting of CARO-COMP, Montreal, Quebec, September 20-23, 2023. Oral presentation.
 63. K. O'Sullivan-Stebent[†], H. Naserit[†], *Need-to-know AI for non-experts: How to differentiate between good and bad AI*, One-hour Workshop given at the Joint Scientific Meeting of CARO-COMP, Montreal, Quebec, September 20-23, 2023. Oral presentation.
 64. M. Rahbaran[†], J. Kalinowski[†], J.M.G. Tsui, J. DeCunha, K. Croce, B. Bergmark, P. Devlin, S.A. Enger, *Development of a novel dosimetry software for patient-specific intravascular brachytherapy treatment planning on optical coherence tomography images*, Joint Scientific Meeting of CARO-COMP, Montreal, Quebec, September 20-23, 2023. Oral presentation.
 65. A. Thibodeau-Antonacci[†], L. Weishaupt, A. Garant, C. Miller, T. Vuong, P. Nicolai[†], S.A. Enger, *Evaluating the inter- and intra-observer variability in the delineation of rectal lesions in endoscopy images*, Joint Scientific Meeting of CARO-COMP, Montreal, Quebec, September 20-23, 2023. Poster presentation.
 66. L. Rafiee Sevyerit[†], *Transparent anomaly detection via concept-based explanations*, 26th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), Vancouver, British Columbia, October 08-12, 2023. Poster presentation.
 67. D.S. Ayala Alvarez[†], P.G.F. Watson, M. Popovic, V.J. Heng[†], M.D.C. Evans, V. Panet-Raymond, J. Seuntjens, *Reassessing intraoperative radiotherapy dosimetry for glioblastoma: Implications for organ-at-risk dose accuracy*, Computational Biology & Medicine Program Retreat, Toronto, Ontario, October 20, 2023.
 68. V.J. Heng[†], M-A. Renaud, M. Serban, J. Seuntjens, *Brems: A web-based treatment planning platform*, Computational Biology & Medicine Program Retreat, Toronto, Ontario, October 20, 2023.
 69. H. Jafarzadeh[†], S.A. Enger, *RapidBrachy treatment planning system*, Meeting with Emphyrean Company, SMBD-Jewish General Hospital, Montreal, Quebec, October 24, 2023.
 70. S. Konermann[†], S.A. Enger, *Development of a semi-automated pipeline for electrophysiological cardiac map integration into treatment planning for cardiac stereotactic body radiation therapy*, Congrès annuel de

- l'Association Québécoise des physien(ne)s médicaux cliniques (AQPMC), Montreal, Quebec, October 30-November 03, 2023.
71. R.C. Bidert[†], I.R. Levesque, *In vivo hypoxia imaging with FAT DESPOT T₁ mapping*, Congrès annuel de l'Association Québécoise des physien(ne)s médicaux cliniques (AQPMC), Montreal, Quebec, October 30-November 03, 2023. Three-minute thesis presentation.
 72. M. Rahbaran[†], J. Kalinowski[†], J.M.G. Tsui, J. DeCunha, K. Croce, B. Bergmark, P. Devlin, S.A. Enger, *RapidBrachyIVBT: A novel dosimetry software for patient-specific intravascular brachytherapy treatment planning on optical coherence tomography images*, Congrès annuel de l'Association Québécoise des physien(ne)s médicaux cliniques (AQPMC), Montreal, Quebec, October 30-November 03, 2023. Oral presentation.
 73. O. Rios Ibacache[†], *Development and evaluation of a novel artificial intelligence model to predict radiotherapy replanning for head and neck cancer*, Congrès annuel de l'Association Québécoise des physien(ne)s médicaux cliniques (AQPMC), Montreal, Quebec, October 30-November 03, 2023. Oral presentation.
 74. M. Robitaille[†], C. Ménard, G. Famulari, D. Nadeau, S.A. Enger, *169Yb-based high dose rate intensity modulated brachytherapy for focal treatment of prostate cancer*, Congrès annuel de l'Association Québécoise des physien(ne)s médicaux cliniques (AQPMC), Montreal, Quebec, October 30-November 03, 2023. Oral presentation.
 75. A. Almansouri, N.A. Hamdan, R. Yilmaz, T. Tee, P. Pachchigar, M. Eskandari, D.L. Collins, R.F. Del Maestro, *Cerebral corticectomy in ex-vivo calf brain model: Face and content validation*, Canadian Journal of Surgery, Ottawa, Ontario, November 01, 2023. Poster presentation.
 76. G. Giampa[†], *Étude des associations entre les caractéristiques quantitatives de l'imagerie et les marqueurs biologiques de la réponse tumorale dans un modèle murin orthotopique de cancer du poumon non à petites cellules*, Foncer en SDRDS Retreat, Université Laval, Laval, Quebec, November 15-16, 2023.
 77. O. Rios Ibacache[†], J. Manalad[†], A.X. Andrade-Hernandez, J. Khriouian, K. O'Sullivan-Steben[†], L. Galarneau, J. Kildea, *Development and evaluation of a novel artificial intelligence model to predict radiotherapy replanning for head and neck cancer*, Foncer en SDRDS Retreat, Université Laval, Laval, Quebec, November 15-16, 2023.
 78. J. Bancheri[†] et al, *Project impact: Development status of the dielectric wall accelerator for accessible proton therapy*, Conference on Flash Radiotherapy & Particle Therapy (FRPT), Toronto, Ontario, December 05-07, 2023.
 79. C.M. Lund[†], P.M. Jung, M.J. Mahert[†], J. Bancheri[†], T. Planche, R. Baartman, J. Seuntjens, *Beam stability and novel pre-accelerator design in a dielectric wall accelerator for proton therapy*, Conference on Flash Radiotherapy & Particle Therapy (FRPT), Toronto, Ontario, December 05-07, 2023. Oral presentation.
 80. L. Rafiee Sevyeri[†], *Transparent anomaly detection via concept-based explanations*, 38th Annual Conference on Neural Information Processing Systems (Neurips 2023), Vancouver, British Columbia, December 09-15, 2023. Poster presentation.