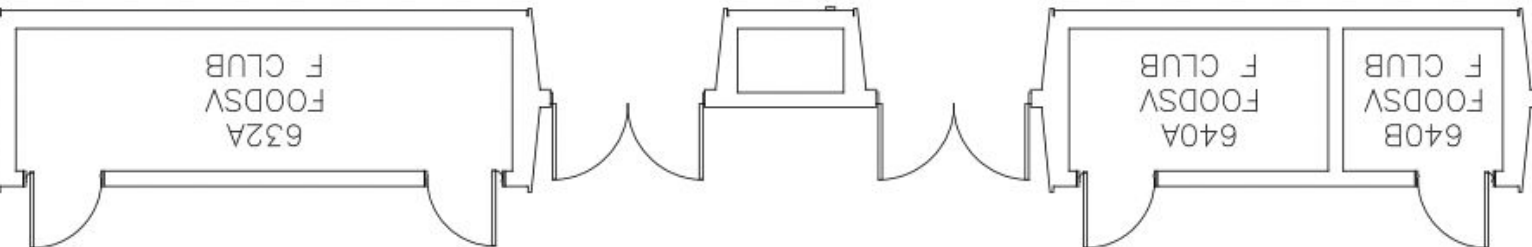


# Block 1

2	9	20	36	48				
A1	A2	A3	A4	A5	A6	A7	A8	
B1	B2	B3	B4	B5	B6	B7	B8	
51	63	75	79	84		43	27	
3	6	14	18	24	88	83	76	
C1	C2	C3	C4	C5	C6	C7	C8	
D1	D2	D3	D4	D5	D6	D7	D8	
29	34	44	47	53	54	56	59	
62	67	68	4	5	21	25		
E1	E2	E3	E4	E5	E6	E7		
F1	F2	F3	F4	F5	F6	F7		
73	74	85	87	71	66	28		

BR  
SV  
C

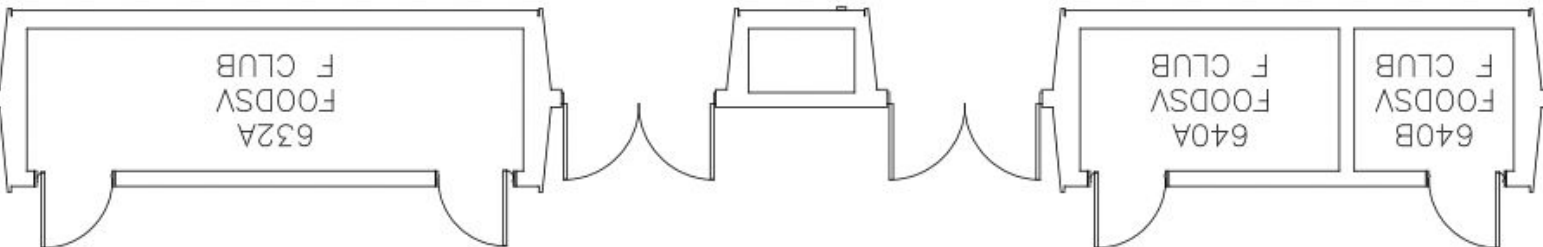


Dining Rooms 3 and 4

# Block 2

17	19	22	30	32	39	42		
A1	A2	A3	A4	A5	A6	A7	A8	
B1	B2	B3	B4	B5	B6	B7	B8	
80	77	58	46	16	70	26	31	
49	60	61	65	69	55	35	33	
C1	C2	C3	C4	C5	C6	C7	C8	
D1	D2	D3	D4	D5	D6	D7	D8	
45	41	38	23	15	13	8	1	
72	78	81	82	86	7	10		
E1	E2	E3	E4	E5	E6	E7		
F1	F2	F3	F4	F5	F6	F7		
64	57	52	40	37	12	11		

BR  
SV  
C



Dining Rooms 3 and 4

# Block 1: Poster Booths

Poster ID	Booth	Title	Group
<b>2</b>	<b>A1</b>	A Cross-Modal Autoencoder Framework Learns Holistic Representations of Cardiovascular State	Adityanarayanan Radhakrishnan, Sam Freesun Friedman, Shaan Khurshid, Kenney Ng, Puneet Batra, Steven Lubitz, Anthony Philippakis, Caroline Uhler
<b>3</b>	<b>C1</b>	A Deep Autoencoder Model to Denoise Visual Fields in Glaucoma	Vishal Sharma, Lucy Shen, Tobias Elze, Min Shi, Louis Pasquale, Mengyu Wang
<b>4</b>	<b>E4</b>	A machine learning toolbox for breast oncology patients to better understand their clinical notes	Mercy N Asiedu, Irbaz Riaz, Niklas Mannhardt, Daniel Ajayi, Katie Liu, Alejandro Buendia, David Sontag
<b>5</b>	<b>E5</b>	A smart compression sleeve for lymphedema treatment	Joseph DelPreto, Elizabeth Hausman, Brooke Juhel, Amanda Jung, Cheryl Brunelle, Alphonse Taghian, Daniela Rus
<b>6</b>	<b>C2</b>	Affective Medical Estimation and Decision Making via Visualized Machine Learning	Mohammad Eslami, Solale Tabarestani, Ehsan Adeli, Glyn Elwyn, Tobias Elze, Nazlee Zebardast, Nassir Navab, Malek Adjouadi
<b>9</b>	<b>A2</b>	An Artificial Intelligence (AI) Model for Screening Computed Tomography (CT) Imaging for Thyroid Eye Disease and Optic Neuropathy	Soomin Jeon, Paul Zhou, Lisa Y. Lin, Jonathan Lu, Synho Do, Nahyoung Grace Lee
<b>14</b>	<b>C3</b>	Automated Segmentation of Sacral Chordomas and Surrounding Muscles Using Deep Learning Ensemble	Léonard Boussioux*, Yu Ma*, Nancy Thomas, Dimitris Bertsimas, Yen-Lin Chen, Nadya Shusharina, Jennifer Pursley, Thomas DeLaney, Jack Qian, Thomas Bortfeld

<b>18</b>	<b>C4</b>	Clustering Interval-Censored Time-Series for Disease Phenotyping	Irene Y. Chen, Rahul G. Krishnan, David Sontag
<b>20</b>	<b>A3</b>	Computer Software Modeling of Biomechanical Stress – Detailed Analysis of The Spine/ Hip Complex	Zacharia Isaac MD, David Binder MD, Danielle Sarno MD, Jay Zampini MD
<b>21</b>	<b>E6</b>	Decoding speech from human motor cortex using an intracortical brain computer interface	Daniel B. Rubin, Tommy Hosman, Anastasia Kapitonava, Ziv M. Williams, John D. Simeral, Sydney S. Cash, Leigh R. Hochberg
<b>24</b>	<b>C5</b>	Deep learning to evaluate metabolic risk in people with HIV	Jen Manne-Goehler, Tzu-Ming Harry Hsu, Peter Szolovits, Alex Goehler, Janet Lo
<b>25</b>	<b>E7</b>	Detecting Overwriting in Handwritten Digits	Angela Li, Randall Davis, Dana Penney
<b>27</b>	<b>B8</b>	Detection of OOD Clinical Notes with Local Manifold Smoothness	Nathan Ng, Neha Hulkund, Marzyeh Ghassemi
<b>28</b>	<b>F7</b>	Endomicroscopy with AI and physics-assisted design	Li-Yu Yu, Sixian You
<b>29</b>	<b>D1</b>	Enhancing patients' care using routinely collected single cell blood data: learning a joint distribution from marginals	Veronica Tozzo; John Higgins

<b>34</b>	<b>D2</b>	Falsification before Extrapolation in Causal Effect Estimation	Ming-Chieh Shih, Mike Oberst, Zeshan Hussein
<b>36</b>	<b>A4</b>	Generation of protein structures with deep learning	Jason Yim, Brian Trippe, Doug Tischer
<b>43</b>	<b>B7</b>	Improving the Fairness of Chest X-ray Classifiers	Haoran Zhang, Natalie Dullerud, Karsten Roth, Lauren Oakden-Rayner, Stephen Robert Pfohl, Marzyeh Ghassemi
<b>44</b>	<b>D3</b>	Inadvertent Multimodal Signals As Indicators of Cognitive Health	Dana Penney, Randall Davis
<b>47</b>	<b>D4</b>	Integrated multimodal artificial intelligence framework for healthcare applications	Luis R. Soenksen, Yu Ma, Cynthia Zeng, Leonard D.J. Boussioux, Kimberly Villalobos Carballo, Liangyuan Na, Holly M. Wiberg, Michael L. Li, Ignacio Fuentes, Dimitris Bertsimas
<b>48</b>	<b>A5</b>	Integration of Spatial Transcriptomics with Chromatin Images Using Graph-Based Autoencoder Identifies Joint Biomarkers for Alzheimer's Disease	Xinyi Zhang, Xiao Wang, GV Shivashankar, Caroline Uhler
<b>51</b>	<b>B1</b>	Learning geometric motifs for fast protein-ligand screening	Menghua Wu, Wengong Jin, Regina Barzilay, Tommi Jaakkola
<b>53</b>	<b>D5</b>	Leveraging serial MRI radiomics and machine learning to stratify risk of radiation necrosis in patients with brain metastases managed with stereotactic radiation and immunotherapy	Hesham Elhalawani, Lubna Hammoudeh, Daphne Haas-Kogan, Ayal Aizer

<b>54</b>	<b>D6</b>	Leveraging Time-Irreversibility With Order-Contrastive Pretraining	Monica Agrawal, Hunter Lang, Michael Offin, Lior Gazit, David Sontag
<b>56</b>	<b>D7</b>	Machine Learning Delivers an Objective, Sensitive, and Accurate Measure of Itch and its Impact on Sleep	Michail Ouroutzoglou, Mingmin Zhao, Hariharan Rahul, Asima Badic, Brian Kim, Dina Katabi
<b>59</b>	<b>D8</b>	ML-driven antimicrobial stewardship for uncomplicated urinary tract infection	Sanjat Kanjilal, Michael Oberst, Sooraj Boominathan, Helen Zhou, David C Hooper, David Sontag
<b>62</b>	<b>E1</b>	Multimodal Learning of Prognostic Biomarkers in Sepsis	Wei Liao, Ching-Yun Ko, Tsui-Wei Weng, Luca Daniel, Joel Voldman
<b>63</b>	<b>B2</b>	Neural Pharmacodynamic State Space Modeling	Zeshan Hussain, Rahul G. Krishnan, David Sontag
<b>66</b>	<b>F6</b>	Optimizing Mental Healthcare for Older Adults: The Technology and Aging Lab at McLean Hospital	Hailey Cray M.P.H., Rebecca Dickinson B.S. B.A., Ipsit Vahia M.D.
<b>67</b>	<b>E2</b>	Predicting clinical outcomes associated with Sepsis to inform resource allocation in the ICU	Angela Lin, Omar Skali Lami, Dessislava Pachamanova, Georgia Perakis, Lien Hong Le
<b>68</b>	<b>E3</b>	Predicting Future Lung Cancer Risk with Low-dose Chest Computed Tomography	Peter G. Mikhael, Jeremy Wohlwend, Adam Yala, Justin Xiang, Angel K. Takigami, Patrick P. Bourgouin, PuiYee Chan, Sofiane Mrah, Lecia V. Sequist, Florian J. Fintelmann, Regina Barzilay

<b>71</b>	<b>F5</b>	Real-Time Arrhythmia Detection in Intensive Care Unit Using a Hybrid Convolutional Neural Network Approach	Sandeep Chandra Bollepalli, Rahul K. Sevakula, Wan-Tai M. Au-Yeung, Mohamad B. Kassab, Faisal M. Merchant, George Bazoukis, Richard Boyer, Eric M. Isselbacher, Antonis A. Aroundas
<b>73</b>	<b>F1</b>	Sensor-Based Characterization of Depression Studies: A collaboration between the MIT Media Lab and MGH Depression Clinical and Research Program	Szymon Fedor, Rosalind W. Picard, Paola Pedrelli
<b>74</b>	<b>F2</b>	Spurious Signal Correction in Medical Images with Disentangled Latent Space Generative Models	Qixuan Jin, Marzyeh Ghassemi
<b>75</b>	<b>B3</b>	Studying RNA Binding Proteins with Machine Learning	Felix Faltings, Jon Henninger, Ozgur Oksuz, Michael Yaffe, Rick Young, Regina Barzilay, Tommi Jakkola
<b>76</b>	<b>C8</b>	Syfer: Neural Obfuscation for Private Data Release	Adam Yala, Victor Quach, Homa Esfahanizadeh, Rafael G. L. D'Oliveira, Ken R. Duffy, Muriel Médard, Tommi S. Jaakkola, Regina Barzilay
<b>79</b>	<b>B4</b>	Tensor Based Framework for the Analysis of Tumor Microenvironment	Neriman Tokcan, Vignesh Shanmugam, Caroline Uhler, Todd Golub
<b>83</b>	<b>C7</b>	Understanding and Addressing the Usability Challenges of Machine Learning In Child Welfare Decision Making	Alexandra Zytek, Dongyu Liu, Rhema Vaithianathan, Warren Wang, Laure Berti-Equille, Kalyan Veeramachaneni
<b>84</b>	<b>B5</b>	Using Machine Learning to Understand Proteomic Subtypes of Medulloblastoma	Maxwell P. Gold, Veronika Pister, Noel Park, David Ghasemi, Raul Saurez, Andrew Masteller, Tobias Ehrenberger, Kristian Pajtler, Jennifer Cotter, Jill Mesirov, Scott Pomeroy, Robert Wechsler-Reya, Michael Taylor, Shawn Davidson, Ernest Fraenkel

<b>85</b>	<b>F3</b>	Utilizing Machine Learning for Risk Stratification of Intraductal Papillary Mucinous Neoplasms and associated cancer	Yasmin G. Hernandez-Barco, Avinash Kambadakone, Itamar Chinn, Ignacio Fuentes Ribas
<b>87</b>	<b>F4</b>	Wireless Seismocardiography: Enabling Long-Term Non-Contact Cardiovascular Monitoring	Unsoo Ha, Sohrab Madani, Fadel Adib
<b>88</b>	<b>C6</b>	Write it like you see it: Detectable differences in clinical notes by race lead to differential model recommendations	Hammaad Adam, Ming Ying Yang, Kenrick Cato, Charles Senteio, Marzyeh Ghassemi

## Block 2: Poster Booths

<b>Poster ID</b>	<b>Booth</b>	<b>Title</b>	<b>Group</b>
<b>1</b>	<b>D8</b>	A Computational Approach to Cognitive Disease Diagnosis Through Delayed Recall Performance	Evan Kim, Randall Davis, Dana Penney
<b>7</b>	<b>E6</b>	AI-informed real-time speech prosthesis for neurological voice and speech disorders	Stefan K. Ehrlich, Kristina Simonyan
<b>8</b>	<b>D7</b>	An AI system to diagnose ischemic heart disease from reduced-lead electrocardiogram data	Hui Ren, Qiong Zhou Huang, Jeongwan Koh, Dufan Wu, Quanzheng Li, Dimitrios Pantazis
<b>10</b>	<b>E7</b>	An Artificial Intelligence-based Surgical Guardian System	Yutong Ban, Jennifer A. Eckhoff, Guy Rosman, Daniel A. Hashimoto, Ozanan Meireles and Daniela Rus



<b>11</b>	<b>F7</b>	Artificial Intelligence Detects Parkinson's Disease and its Severity from Nocturnal Breathing	Yuzhe Yang, Yuan Yuan, Guo Zhang, Hao Wang, Ying-Cong Chen, Yingcheng Liu, Christopher G. Tarolli, Daniel Crepeau, Jan Bukartyk, Mithri R. Junna, Aleksandar Videnovic, Terry D. Ellis, Melissa C. Lipford, Ray Dorsey, Dina Katabi
<b>12</b>	<b>F6</b>	Assessing Parkinson's Disease at Home: Contactless Monitoring of Disease Severity, Progression, and Medication Response Using Radio Signals	Yingcheng Liu, Guo Zhang, Christopher G. Tarolli, Rumen Hristov, Stella Jensen-Roberts, Emma M. Waddell, Taylor L. Myers, Meghan E. Pawlik, Julia M. Soto, Renee M. Wilson, Yuzhe Yang, Timothy Nordahl, Karlo J. Lizarraga, Jamie L. Adams, Ruth B. Schneider, Karl Kiebertz, Terry Ellis, Ray Dorsey, Dina Katabi
<b>13</b>	<b>D6</b>	Augmenting existing deterioration indices with chest radiographs to predict clinical deterioration	Emily Mu, BSE, MEng; Sarah Jabbour, BSE, BBA; Adrian V. Dalca, PhD; John Guttag, PhD; Jenna Wiens, PhD; Michael W. Sjoding, MD, MSc
<b>15</b>	<b>D5</b>	Biologically Interpretable Representation Learning Algorithms for Characterizing and Predicting Cancer Immunotherapy Resistance	Ifrah Tariq, Bracha Laufer-Goldshtein, Ernest Fraenkel
<b>16</b>	<b>B5</b>	Calibrated Selective Prediction	Adam Fisch, Tommi Jaakkola, Regina Barzilay
<b>17</b>	<b>A1</b>	Capturing Brain Disease Mechanisms within Genetic and Environmental Diversity	Philippe Habets, Aarti Jajoo, Constantinos Daskalakis, Nikolaos Daskalakis
<b>19</b>	<b>A2</b>	Computational approaches to identify ALS disease signatures from multi-omic data in a heterogeneous patient population	Stanislav Tsitkov*, Velina Kozareva*, Answer ALS Consortium, Ernest Fraenkel
<b>22</b>	<b>A3</b>	Deep learning for identifying new synergistic drug combinations	Wengong Jin, Jonathan M Stokes, Richard T Eastman, Zina Itkin, Alexey V Zakharov, James J Collins, Tommi S Jaakkola, Regina Barzilay

<b>23</b>	<b>D4</b>	Deep learning MRI-based model for prediction of clinically significant prostate cancer	Keyan Salari, Harrison Le, Janice Yang, Peter Mikhael, Mukesh Harisinghani, Regina Barzilay
<b>26</b>	<b>B7</b>	Detecting the Effects of Proxies on Bias in Clinical Algorithms	Vinith M. Suriyakumar, Marzyeh Ghassemi
<b>30</b>	<b>A4</b>	EquiBind: Geometric Deep Learning for Drug Binding Structure Prediction	Hannes Stärk*, Octavian Ganea*, Lagnajit Pattanaik, Regina Barzilay, Tommi Jaakkola
<b>31</b>	<b>B8</b>	Evaluating Machine Learning for “Loophole” Detection and Decisions in Healthcare Settings	Aparna Balagopalan, Tom Hartvigsen, Marzyeh Ghassemi
<b>32</b>	<b>A5</b>	Evolution Prediction by Deep Generative Model	Wenxian Shi, Ryan Tso, Jonathan Stokes, and Regina Barzilay
<b>33</b>	<b>C8</b>	Fair Organ Allocation	Hammad Adam, Rene Bermea, Mingying Yang, Leo Celi, Marzyeh Ghassemi
<b>35</b>	<b>C7</b>	Finding Regions of Heterogeneity in Decision-Making via Expected Conditional Covariance	Justin Lim, Christina X Ji, Michael Oberst, Saul Blecker, Leora Horwitz, David Sontag
<b>37</b>	<b>F5</b>	Graphene-Lined Porous Gelatin Glycidyl Methacrylate Hydrogels: Implications for Tissue Engineering	Sina Sharifi, Hannah Sharifi, Ali Akbari, Claes H Dohlman, Eleftherios I Paschalis, Miguel Gonzalez-Andrades, Jing Kong, James Chodosh

<b>38</b>	<b>D3</b>	High Fidelity Medical Image-to-Image Translation with Spatial-Intensity Transforms	Clinton J. Wang, Natalia S. Rost, Polina Golland
<b>39</b>	<b>A6</b>	Hyperbolic graph embedding of magnetoencephalography brain networks to study brain alterations in patients with subjective cognitive decline.	Cole Baker, Isabel Suarez-Mendez, Fernando Maestu, Dimitrios Pantazis, Mengjia Xu
<b>40</b>	<b>F4</b>	iBOCA: iPad App for Cognitive Testing	Kalyan Veeramachaneni, Seth Amarasinghe, Sana Chowdhry, Alexandra Zytek, Frances Hartwell
<b>41</b>	<b>D2</b>	Identifying Metabolite Spectral Patterns that Reflect Outcome after Cardiac Arrest Using Machine Learning	Marcia Sahaya Louis, Jong Woo Lee, Huijun Vicky Liao, Ajay Joshi, Rohit Singh, Alexander Lin
<b>42</b>	<b>A7</b>	ImageOmicsNet: Linking Imaging with Genomics through Machine Learning	Koseki J. Kobayashi-Kirschvink, Charles S. Comiter, Aviv Regev, Jian Shu
<b>45</b>	<b>D1</b>	Inferring pulmonary capillary wedge pressure from minimally invasive measurements	Aniruddh Raghu, Daphne Schlesinger, Eugene Pomerantsev, John Guttag, Collin Stultz
<b>46</b>	<b>B4</b>	Influence of auditory brainstem implant (ABI) position on perception: a multi-center study	Alejandro Garcia, MD; Sonja Poe; Afash Haleem; Victor Adenis, PhD; M. Christian Brown, PhD; Barbara S. Hermann, PhD; Daniel J. Lee, MD, FACS
<b>49</b>	<b>C1</b>	Learning Dynamic Treatment Regimes from Observational Health Data	Li-wei Lehman, Zach Shahn

<b>52</b>	<b>F3</b>	Learning-based high-speed programmable light source for label-free in vivo imaging	Tong Qiu, Artem Gazizov, Sixian You
<b>55</b>	<b>C6</b>	Local Explanations for Clinical Risk Scores	Yuria Utsumi, Hussein Mozannar, Irene Chen, David Sontag
<b>57</b>	<b>F2</b>	Machine Learning Driven User Interfaces for Electronic Health Records	Monica Agrawal, Luke Murray, Divya Gopinath, Steven Horng, David Karger, David Sontag
<b>58</b>	<b>B3</b>	Machine Learning Tools for Analyzing the Development of Cellular-scale Neuronal Networks in Health and Disease	Susanna B. Mierau, Erik Hemberg, Una-May O'Reilly
<b>60</b>	<b>C2</b>	Multi-Task Partially Convolutional Networks for Artifacts Imputation in Retinal Nerve Fiber Layer Thickness Maps	Min Shi, Lucy Shen, Tobias Elze, Vishal Sharma, Louis Pasquale, Mengyu Wang
<b>61</b>	<b>C3</b>	Multimodal Artificial Intelligence for Chest Pathology Diagnosis	Luis R. Soenksen*, Yu Ma*, Cynthia Zeng*, Léonard Boussioux*, Kimberly Villalobos Carballo*, Liangyuan Na*, Holly M. Wiberg, Michael L. Li, Ignacio Fuentes, Dimitris Bertsimas
<b>64</b>	<b>F1</b>	omop-learn: An open-source library for deep contextual clinical prediction on longitudinal medical data	Alejandro Buendia, Hunter Lang, Neil Dixit, Rohan Kodialam, Rebecca Boiarsky, Justin Lim, Aditya Sai, David Sontag
<b>65</b>	<b>C4</b>	Online Patient Operational Characteristics Predictions with Integrated Multimodal Machine Learning Frameworks	Luis R. Soenksen, Yu Ma, Cynthia Zeng, Leonard D.J. Boussioux, Kimberly Villalobos Carballo, Liangyuan Na, Holly M. Wiberg, Michael L. Li, Ignacio Fuentes, Dimitris Bertsimas, Ali Haddad-Sisakht, Kyle Maulden, Yi Wang, Yiwen Zhang, Barry Stein, Daniel Kombert, Andrew Castiglione, Melissa Boisjoli-Langlois, Maram Khalifa, Pooja Hebbal

<b>69</b>	<b>C5</b>	Quantifying Common Support between Multiple Treatment Groups Using a Contrastive-VAE	Wangzhi Dai, Collin M. Stultz
<b>70</b>	<b>B6</b>	Quantifying Inequality in Underreported Conditions	Divya Shanmugam, Emma Pierson
<b>72</b>	<b>E1</b>	RHCnet: A deep learning model for inferring elevated pulmonary capillary wedge pressures from the 12-lead electrocardiogram	Daphne E. Schlesinger, Nathaniel Diamant, Aniruddh Raghu, Erik Reinertsen, Katherine Young, Puneet Batra, Eugene Pomerantsev, and Collin M. Stultz
<b>77</b>	<b>B2</b>	T-cell Target Prediction Guiding Disease Detection and Monitoring	Nitan Shalon, Jeremy Wohlwend, Regina Barzilay
<b>78</b>	<b>E2</b>	Teaching Humans When To Defer to a Classifier via Exemplars	Hussein Mozannar, Arvind Satyanarayan, David Sontag
<b>80</b>	<b>B1</b>	Torsional Diffusion for Molecular Conformer Generation	Gabriele Corso, Bowen Jing, Regina Barzilay, Tommi Jaakkola
<b>81</b>	<b>E3</b>	Towards Development, Validation, and Clinical Translation of Automated Segmentation for Vestibular Schwannomas	Krish Suresh MD, Ryan Bartholomew MD, Bradley Welling, MD PhD, Matthew Crowson MD MPA MASc FRCSC
<b>82</b>	<b>E4</b>	Uncovering the important acoustic features for detecting vocal fold paralysis with explainable machine learning	Daniel M. Low, Vishwanatha Rao, Gregory Randolph, Phillip C. Song*, Satrajit S. Ghosh*

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**E5**

Validating Clinical Dead-ends Across Multiple Sites

Taylor Killian, Marzyeh Ghassemi