

Immune-guided AI for Reproducible Regions of Interest Selection in Multiplex Immunofluorescence Pathology Imaging

Tanishq Gautam¹, Karina P. Gonzalez², Maria E. Salvatierra², Alejandra Serrano², Pingjun Chen¹, Xiaoxi Pan^{1,2}, Yasin Shokrollahi¹, Sara Ranjbar¹, Leticia Rodriguez¹, Patient Mosaic Team³, Luisa Solis-Soto², Yinyin Yuan^{1,2}, and Simon P. Castillo^{1,2}^[0000-0002-0606-2160]

¹ The Institute for Data Science in Oncology, The University of Texas MD Anderson Cancer Center TX 77098, USA spcastillo@mdanderson.org

² Department of Translational Molecular Pathology, The University of Texas MD Anderson Cancer Center TX 77098, USA spcastillo@mdanderson.org

³ The University of Texas MD Anderson Cancer Center, TX 77098, USA

1 Patient Mosaic Team Authorship

Nadim J Ajami; Azad Ali; Franklin Alvarez; Brittany Alvarez; Bianca Amador; Surosh Avandsalehi; Claudia Alvarez Bedoya; Katrice Bogan; Elena Bogantenkova; Elizabeth Bonojo; Maria Neus Bota-Rabassedas ; Elizabeth M Burton; Noble Cadle; Vanessa Castro; Chi-Wan Chow; Randy Aaron Chu; Candace Cunningham; Carrie Daniel-MacDougall; Nana Kouangoua Diane C; Mary Domask; Sheila Duncan; Andrew Futreal; Vivian Gabisi; Jessica Gallegos; Andrea Galvan; Ana Garcia; Jose Garcia; Celia Garcia-Prieto; Christopher Gibbons; Jonathan Benjamin Gill; Dominic Guajardo; Curtis Gumbs; Kristin J Hargraves; Tim Hefernan; Joshua Hein; Sharia Hernandez; Charlotte Hillegass; Yasmine M Hoballah; Theresa Honey; Chacha Horombe; Habibul Islam; Stacy Jackson; Jeena Jacob; Akshaya Jadhav; Robert Jenq; Weiguo Jian; Juliet Joy; Isha Khanduri; Walter Kinyua; Laura Klein; Mark Knaff; Larisa Kostousov; Ying-Wei Kuo; Wenhua Lang; Barrett Craig Lawson; Alexander Lazar; Jack Lee; Erma Levy; XiQi 'Cece' Li; Latasha D Little; Yang Liu; Yan Long; Vielka Lopez; Wei Lu; Sandra Lugo; Aaliyah Maldonado; Jared Malke; Asri Margono; Dipen Maheshbhai Maru; Grace Mathew; Brian McKinley; Jennifer Leigh McQuade; Courtney McRuffin; Gertrude Mendoza; Christopher Miller; Raymond Montoya; Francisco Motemayor; Theresa Nguyen; Heather Perez; Juan Posadas Ruiz; Sabitha Prabhakaran; Mallory Psenda; Gabriela Raso; Mike Roth; Pranoti Sahasrohojane; Amber Savant; Keri L Schadler; Alejandra Serrano; Kenna R Shaw; Julie M Simon; Elizabeth Sirmans; Luisa Maren Solis Soto; Xingzhi 'Henry' Song; Meghan Stennis; Huandong 'Howard' Sun; Maria Chang Swartz; Mari-aleska Tariba-Edick; Christopher Vellano; Angela Walker; Ignacio Ivan Wistuba; Scott Eric Woodman; DeArtura Young; Jianhua 'John' Zhang; Haifeng Zhu; Hui 'Helen' Zhu; Olga Bat; Shadarra Crosby; Ellie Freebern; Cindy Hwang; Diana Kouangoua; Yang Li; Sharon Miller; Xiaogang 'Sean' Wu