Supplementary Materials

Clinical and Translational Science

Progress Toward a Universal Biomedical Data Translator

Karamarie Fecho^{1*†}, Anne T. Thessen^{2*}, Sergio E. Baranzini³, Chris Bizon¹, Jennifer J. Hadlock⁴, Sui Huang⁴, Ryan T. Roper⁴, Noel Southall⁵, Casey Ta⁶, Paul B. Watkins⁷, Mark D. Williams⁵, Hao Xu¹, William Byrd⁸, Vlado Dančík⁹, Marc P. Duby¹⁰, Michel Dumontier¹¹, Gustavo Glusman⁴, Nomi L. Harris¹², Eugene W. Hinderer¹³, Greg Hyde¹⁴, Adam Johs¹⁵, Andrew Su¹⁶, Guangrong Qin⁴, Qian Zhu⁵, and the Biomedical Data Translator Consortium

- 1. Renaissance Computing Institute, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA
- 2. Center for Health AI, University of Colorado Anschutz Medical Campus, Aurora, CO, USA
- 3. Weill Institute for Neurosciences, Department of Neurology, University of California at San Francisco, San Francisco, CA, USA
- 4. Institute for Systems Biology, Seattle, WA, USA
- 5. Division of Preclinical Innovation, National Center for Advancing Translational Sciences, National Institutes of Health, Rockville, MD, USA
- 6. Department of Biomedical Informatics, Columbia University, New York, NY, USA
- 7. Division of Pharmacotherapy and Experimental Therapeutics, Eshelman School of Pharmacy, University of North Carolina at Chapel Hill, Chapel Hill, USA
- 8. Hugh Kaul Precision Medicine Institute, University of Alabama at Birmingham, Birmingham, AL, USA
- 9. Chemical Biology and Therapeutics Science Program, Broad Institute, Cambridge, MA, USA
- 10. Medical and Population Genetics Program, Broad Institute, Cambridge, MA, USA
- 11. Institute of Data Science, Maastricht University, Maastricht, Netherlands
- 12. Division of Environmental Genomics and Systems Biology, Lawrence Berkeley National Laboratory, Berkeley, CA, USA
- 13. Tufts Clinical and Translational Science Institute, Tufts Medical Center, Boston, MA, USA
- 14. Thayer School of Engineering, Dartmouth College, Hanover, NH, USA
- 15. Department of Information Science, College of Computing and Informatics, Drexel University, Philadelphia, PA, USA
- 16. Department of Integrative Structural and Computational Biology, The Scripps Research Institute, La Jolla, CA, USA
 - + Consortial/collaborative authors

[†]Correspondence: Karamarie Fecho; 100 Europa Drive, Suite 540, Chapel Hill, NC 27517; Phone:919-445-9640; Email: kfecho@copperlineprofessionalsolutions.com, kfecho@renci.org

^{*}These authors served as co-first authors

Supplementary Figures

Figure S1. Timeline and key milestones for the Translator program, September 2016 through September 2022. Abbreviations: FOA = funding opportunity announcement; RFP = request for proposals; SME = subject matter expert; TBD = to be determined; UI = user interface. (Graphic prepared by Tyler F. Beck and adapted by Karamarie Fecho.)

