

SCORE	CODE	TITLE	Background and Relevance	Objectives	Recommended Actions	Potential Impact	Overall Score
2.304348	CJ2F	New funding mechanisms for long-term studies of chronic joint disease	3	1	1	1	1
2.326087	LF2F	Collaborative longitudinal study centers	1	2	2	2	2
2.586957	LF4A	Extending biomechanical assessment beyond the lab: quantification of Activity, Compliance, and Outcomes in the "REAL WORLD"	2	3	4	3	3
2.869565	LF1C	Verifying model and simulation of human movement accuracy	7	5	3	7	4
2.869565	LF2B	Translating biomechanics research findings into clinical practice: avoiding the "Valley of Death"	5	14	6	5	5
2.869565	CJ4A	A call for biomechanical cross-disciplinary education	4	4	10	4	6
2.978261	LF3A	A bridge between biomechanics and personalized rehabilitation	6	9	9	6	7
2.978261	CJ4H	Instituting adequate representation on NIH study sections	9	7	12	8	8
3.173913	LF4E	Understanding injury mechanism and musculoskeletal benefits of recreational sport and exercise	13	10	5	9	9
3.173913	CJ3B	An international database for biomechanics (IDB)	10	6	8	11	10
3.23913	LF3B-LF5B	Clinical measurement toolbox: a common currency for systematic evaluation of physical function	15	11	14	10	11
3.304348	CJ2H	Integrating structural and functional joint imaging	16	12	7	12	12
3.391304	LF4F	Priority conference as a priority	17	18	15	15	13
3.413043	CJ3A	Subject specific modeling to improve clinical outcomes through individualized treatment	14	13	13	13	14
3.413043	CJ4E	The human model-ome project	11	8	21	14	15
3.434783	LF1D	Identify contributing physiological factors and appropriate outcomes measures related to dynamic walking stability and falling	12	19	11	16	16
3.565217	CJ2B	Research guided by disease-specific theoretical frameworks	23	25	19	24	17
3.608696	LF3C	Crosspollination of biomechanics related disciplines	33	16	17	17	18
3.630435	LF1B	Demonstrate that modeling and simulation can improve clinical outcomes	20	21	27	19	19
3.673913	CJ4B	Establishing validation standards for biomechanical modeling	8	20	24	26	20
3.695652	CJ4C	Establishing standards for vivo quantification joint dynamics	21	17	16	21	21
3.695652	LF2C	Broadening dissemination: translating knowledge gains across disciplines	22	29	22	22	22
3.73913	LF1A	Develop predictive biomechanical models of human movement	18	35	28	23	23
3.76087	LF4D	Augmenting impaired musculoskeletal function using assistive devices	32	27	20	27	24
3.847826	CJ3C	Multi-level exploration of osteoarthritis	24	15	36	20	25
3.847826	LF1E	Understanding the role and significance of noise and/or variability in movement	28	28	18	32	26
3.869565	CJ3D	Biomechanical mechanisms and sequelae of tissue injury	26	22	32	28	27
3.869565	LF4B	Translating biomechanics research findings into clinical practice	37	30	25	29	28
3.891304	LF4C	Determination of musculoskeletal properties for subject-specific applications	36	24	23	18	29
3.956522	CJ1E	Knowledge sharing between technical and clinical biomechanists	30	23	34	31	30
3.956522	CJ2D	Can objective biomechanical and biological measures be translated from the lab to the clinic to improve patient outcomes?	25	26	30	25	31
4	LF2D	Identifying an answering questions that change lives: advancing clinical biomechanics research	29	36	29	30	32
4.130435	LF2E	Goal-directed design in rehabilitation device development and prescription	27	32	26	33	33
4.217391	CJ1A	Variable timeline for impact in biomechanical research	34	34	33	34	34
4.282609	CJ4D	Defining skeletal muscle-extracellular matrix communication	31	31	37	35	35
4.347826	LF2A	Development of powered orthoses and robotic exoskeletons for human locomotion	19	33	31	36	36
4.5	LF1F	Creating multi-scale models of cellular, tissue and musculoskeletal function	35	39	35	37	37
4.586957	CJ1G	High fidelity biomechanics of pathological movement	39	37	39	38	38
4.826087	CJ2A	Making surgical procedure simulation real through biomechanics	38	38	38	39	39
5.673913	CJ1D	Link biomechanical load to development of diabetic neuropathic plantar ulcerations	40	40	40	40	40
5.782609	CJ1C	Minor-axis neuromuscular control and movement training	41	41	41	41	41
			861	861	861	861	861