

NIAMS Research Infrastructure and Training Landscape

Active NIAMS-funded data knowledgebases and repositories, P30 centers, and T32 training programs

Sources: NIH RePORTER exports of active projects (P30 centers, October 14, 2026; knowledgebases, repositories, and T32s, October 17, 2026); websites located by web search, October 16–17, 2026. Services are summarized from abstracts and may not list every offering. "OA-relevant" marks programs whose abstracts mention osteoarthritis or joint replacement. This list was developed by Claude Opus 5.5 on October 16-17, 2026, using manually exported files from NIH RePORTER.

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Part 1 • Knowledgebases and data repositories

Active NIAMS awards under the Biomedical Data Repositories and Knowledgebases program. All three are early-stage R24 awards.

Resource	Website	Key resources and services
The OAI Collaborative Osteoarthritis Research Enterprise (OAI CORE) Knowledgebase UMass Chan Medical School · Knowledgebase Director: Jeffrey Driban R24AR085006 · segment ends Mar 2029 OA-relevant	https://www.oaiknowledgebase.com/	- Online OAI Resource Library: OAI Archive, OAI.Edu, State of the OAI reports, OAI Explorer, biospecimen database, OAI Learning Lab - OAI Engagement Services: office hours, dataset and imaging-set generation, BRAC help, dataset deposit and linking, OAI Connector
The Musculoskeletal Knowledge Portal (MSKKP) Broad Institute · Knowledgebase Director: Noel Burt (contact); Jason Flannick; Douglas Kiel R24AR085003 · segment ends Feb 2029 OA-relevant	https://mskkp.org	- Curated musculoskeletal genetic and genomic datasets (GWAS; bone, cartilage, tendon, synovial fluid, muscle omics; knockout phenotypes) - Expert analytic pipelines and web-based visualizations; governance and FAIR infrastructure
Rodent Open Science Skeletal Archive (ROSSA) UConn Health · Data repository Director: Peter Maye (contact); David Rowe; Dong-Guk Shin R24AR084725 · segment ends Jul 2028	https://rossa.uhc.edu/	- Data Submission Portal: rodent skeletal phenotyping data, including genetically modified models, interventions, and microCT and representative images; supported measurement parameters, ingestion guide, office hours, and team sharing - Search and API access to archived datasets; Advanced Data Center for cross-study exploration and analysis (under construction) - Core Facility Registry connecting investigators with skeletal phenotyping facilities - Data stored on UConn High Performance Computing infrastructure

Part 2 • P30 Centers

Rheumatic diseases Resource-based Centers (RFA-AR-23-002) • 3 centers

Center	Website	Key resources and services
Cincinnati Rheumatic Diseases Resource Center Cincinnati Children's Hospital Medical Center Director: Leah Kottyan P30AR070549 • segment ends Jun 2028	https://www.cincinnatichildrens.org/research/divisions/r/rheumatic-diseases	• Integrative Cell Phenotyping Core: flow cytometry, multiplex analytes, single-cell genomic, proteomic, and spatial methods • Functional Genomics Core: reagents and expertise to test disease-associated genetic variants • Bioinformatics and Modeling Core: QC, analysis, integration, and modeling of large datasets • Tissue Repository Core: pediatric rheumatology biobank, including the CARRA Registry biobank
Washington University Rheumatic Diseases Research Resource-based Center (WU-RDRRC) Washington University in St. Louis Director: Christine Pham P30AR073752 • segment ends Aug 2028	https://rheumatology.wustl.edu/research-2/rheumatic-diseases-research-resource-based-center/scientific-cores	• Cellular Imaging Core: advanced microscopy via the WU Center for Cellular Imaging • Genome Engineering Core: genome editing and engineered models • Biobanking and Phenotyping Core: patient biospecimens with clinical phenotyping
Oklahoma Rheumatic Disease Research Cores Center (ORDRCC) Oklahoma Medical Research Foundation Director: Judith James P30AR073750 • segment ends Aug 2028	https://ordrcc.omrf.org/home/	• Human Phenotyping Core: transcriptomics, proteomics, immunophenotyping, single-cell and spatial multiomics • Clinical Characterization and Biorepository Core: clinical data and samples from about 71,000 patients in a CAP-certified biorepository

Bone, muscle, and orthopaedic Resource-based Centers (RFA-AR-24-002) · 5 centers

Center	Website	Key resources and services
UW Center for Translational Muscle Research (CTMR) University of Washington Director: Michael Regnier P30AR074990 · segment ends Mar 2029	https://ctmr.washington.edu/	• Mechanics and Devices Core: multiscale muscle structure and function testing • Metabolism Core: muscle metabolism and mitochondrial function • Quantitative Analysis Core: computational modeling, data analysis tools, hackweeks and workshops
Core Center for Musculoskeletal Biology and Medicine (CCMBM) University of California, San Francisco Director: Edward Hsiao P30AR075055 · segment ends Apr 2029 OA-relevant	https://ccmbm.ucsf.edu	• Skeletal Biology and Biomechanics Core: bone biology and mechanical testing • Imaging Core: MRI, CT, PET, DXA acquisition and quantitative analysis, preclinical and clinical • Epidemiology, Bioinformatics and Study Design Core: access to UCSF osteoporosis and OA cohorts, consults, work-in-progress groups, online wayfinding tool
Center for Musculoskeletal Research Massachusetts General Hospital Director: Eva Liu (contact); Marie Demay (Admin Core) P30AR075042 · segment ends Jun 2029	<i>No dedicated public website found; see NIH RePORTER for P30AR075042</i>	• Cellular and Molecular Analysis Core: annotated human tissues, primary cells, cell lines, and training • Translational Imaging and Phenotyping Core: histomorphometry, micro-CT, biomechanics, quantitative MRI, HR-pQCT
Resource-based Center for Musculoskeletal Biology and Medicine Washington University in St. Louis Director: Matthew Silva P30AR074992 · segment ends Jun 2029 OA-relevant	https://musculoskeletal.wustl.edu	• Musculoskeletal Structure and Strength Core: imaging and mechanical testing • Musculoskeletal Histology and Morphometry Core • Animal Models of Bone and Joint Injury and Disease Core
Resource Cores for Musculoskeletal Biology Research (Indiana Center for Musculoskeletal Health) Indiana University Indianapolis Director: Alexander Robling P30AR083854 · segment ends Jul 2029 OA-relevant	https://medicine.iu.edu/research-centers/musculoskeletal/basic-translational-science-service-cores	• Musculoskeletal Mechanobiology Core: in vivo and in vitro mechanical loading • Systems Biology and Multi-Omics Core: genomic and metabolomic methods for bone and muscle • Histology and Histomorphometry Core: bone, muscle, cartilage, tendon, disc; design consults and training

Skin biology and diseases Resource-based Centers (RFA-AR-24-001) · 3 centers

Center	Website	Key resources and services
University of Michigan Skin Biology and Diseases Resource-based Center (UM-SBDRC) University of Michigan Director: Johann Gudjonsson P30AR075043 · segment ends May 2029	https://medresearch.umich.edu/labs-departments/centers/skin-research	• Functional Analytics Core: systems biology tools, bioinformatics, genome editing services • Animal Modeling Core: design and characterization of genetically engineered mouse models
Northwestern University Skin Biology and Diseases Resource-based Center (NU-SBDRC) Northwestern University Director: Amy Paller P30AR075049 · segment ends Jun 2029	https://www.skinresearch.northwestern.edu	• STEM Core: human skin tissue and primary cells, 3D skin models, histology • TEST IT2 Core: skin provocation testing, sampling, monitoring, and bioinformatics • GETiN Core: CRISPR, viral and non-viral gene delivery into skin cells and tissue
Skin Biology Resource-Based Center at UCI University of California, Irvine Director: Bogi Andersen P30AR075047 · segment ends Apr 2030	https://skincenter.uci.edu/Research/core_resources/index.php	• Imaging/Engineering Core: in vivo and ex vivo imaging, 3D skin organoids • Multiomics Core: sequencing; bulk, single-cell, and spatial transcriptomics • Systems Biology Core: high-dimensional analysis and quantitative modeling

Core Centers for Clinical Research (RFA-AR-24-003) · 4 centers

Center	Website	Key resources and services
Building and InnovatinG: Digital heAlth Technology and Analytics (BIGDATA) University of Alabama at Birmingham Director: Jeffrey Curtis P30AR072583 · segment ends Jul 2029	https://www.uab.edu/medicine/bigdata	• Methods and Health Informatics Core: pragmatic and SMART trial designs, data capture and engineering, NLP and machine learning, analysis • Dissemination and Implementation for Community Engagement Core: recruitment and implementation support
American Joint Replacement Research-Collaborative (AJRR-C) Mayo Clinic Rochester Director: Daniel Berry P30AR076312 · segment ends Aug 2029 OA-relevant	https://www.mayo.edu/research/centers-programs/american-joint-replacement-research-collaborative	• Methodology Core: bias and confounding methods, EHR informatics and NLP, PROs, registry-embedded trials for joint replacement • Resource Core: national joint replacement registry data and research infrastructure
UNC Core Center for Clinical Research University of North Carolina at Chapel Hill Director: Amanda Nelson P30AR072580 · segment ends Aug 2029 OA-relevant	https://med.unc.edu/tarc/cccr	• Methodology Core: biostatistics, epidemiology, data science, trials, imaging biomarkers; consultation sessions and training • Phenotyping and Precision Medicine Resource Core: machine learning phenotyping in OA and other RMDs; real-world dataset with partner CCCRs
Boston Musculoskeletal Clinical Research Collaboratory (BU CCCR) Boston University Director: Tuhina Neogi P30AR072571 · segment ends Aug 2029 OA-relevant	https://www.bumc.bu.edu/bostonmcrc/	• Methodology Core: advanced epidemiology, causal inference, machine and deep learning, claims and EHR data, wearables • Weekly Research Accelerator, Patient Advisory Group, pilot grants, methodology journal club

Part 3 • T32 training programs

Active NIAMS-administered T32 institutional training grants, grouped by area. Trainee levels are taken from abstracts.

Rheumatology and rheumatic diseases • 20 programs

Program	Focus and trainees	Website	Award
Scientist Training in Rheumatology Research University of Michigan · Jason Knight	Rheumatic disease pathogenesis Trainees: Postdoc	medschool.umich.edu/departments/internal-medicine/divisions/rheumatology/education/fellowships-training-programs/scientist-training-rheumatology-research-program	T32AR007080 Ends Jun 2028
Research Training in Rheumatology University of Colorado Denver · Kristine Kuhn	Rheumatic and autoimmune disease pathogenesis Trainees: Pre, postdoc	medschool.cuanschutz.edu/rheumatology/education/trainee-research-information/nih-t32-supported-positions	T32AR007534 Ends Aug 2027
Cincinnati Training Program in Pediatric Rheumatology Cincinnati Children's Hospital · Alexei Grom	Pediatric rheumatic diseases Trainees: Postdoc (fellows)	cincinnatichildrens.org/education/clinical/fellowship/rheumatology	T32AR069512 Ends Apr 2030
Rheumatic Diseases Research Training Grant UC San Diego · Monica Guma	Rheumatic disease research Trainees: Pre, postdoc	rheumatology.ucsd.edu/education/rheumatic-diseases-research-investigator-program/index.html	T32AR064194 Ends Apr 2029
Rheumatology Research Training Program Northwestern University · Yvonne Lee	Rheumatology research Trainees: Postdoc	medicine.northwestern.edu/DIVISIONS/rheumatology/research/t32.html	T32AR085530 Ends Aug 2030
Research Training in Rheumatology at MGH Massachusetts General Hospital · Andrew Luster	Rheumatology and immunology Trainees: Postdoc	massgeneral.org/medicine/rheumatology/education/rheumatology-fellowship	T32AR007258 Ends Jun 2029
Immunologic Mechanisms and Rheumatic Diseases Brigham and Women's Hospital · Ellen Gravallese	Cell and molecular biology, genetics, computational biology, immunology Trainees: Pre, postdoc	<i>No program page found</i>	T32AR007530 Ends Jul 2030
Boston University Rheumatology Research Training (BURRT) Boston University · Tuhina Neogi	Clinical investigation: epidemiology, management, and outcomes Trainees: Postdoc Clinical epidemiology and outcomes	www.bumc.bu.edu/rheumatology/boston-university-rheumatology-research-training-burrt-t32-program	T32AR080623 Ends May 2027
Multidisciplinary Rheumatology Training Program Johns Hopkins University · Clifton Bingham	Multidisciplinary rheumatology research Trainees: Postdoc	www.hopkinsrheumatology.org/postdoctoral-fellowships/research-training/	T32AR048522 Ends Jun 2029
Training Program in Rheumatic Diseases University of Pennsylvania · Peter Merkel	Pathophysiology, diagnosis, treatment, and outcomes Trainees: Postdoc	departments.med.upenn.edu/academic-departments/departments-of-medicine/divisions/division-of-rheumatology/education-and-training/fellowship-program	T32AR076951 Ends May 2030
Training Grant in Inflammatory and Fibrosing Diseases Medical University of South Carolina · Diane Kamen	Basic, translational, clinical rheumatic disease Trainees: Postdoc	<i>No program page found</i>	T32AR050958 Ends Jul 2031

Program	Focus and trainees	Website	Award
Interdisciplinary Training in Rheumatic Diseases Vanderbilt University · Amy Major	Rheumatic diseases and translational immunology Trainees: Pre, postdoc	medicine.vumc.org/divisions/rheumatology-immunology/t32	T32AR059039 Ends Jun 2031
Training Program in Investigative Rheumatology Yale University · Richard Bucala	Rheumatologic and immunologic diseases Trainees: Postdoc	medicine.yale.edu/internal-medicine/raci/rheumatology/rheumatology-fellowship/research-training	T32AR007107 Ends Aug 2031
Immunobiology of the Rheumatic Diseases Washington University in St. Louis · Deborah Lenschow	Immunobiology of rheumatic diseases Trainees: Pre, postdoc	rheumatology.wustl.edu/	T32AR007279 Ends Jul 2031
Translational Basic and Clinical Research Training in Rheumatology NYU School of Medicine · Jill Buyon	Translational and clinical rheumatology Trainees: Pre, postdoc	med.nyu.edu/departments-institutes/medicine/divisions/rheumatology/education/fellowship/additional-research-training	T32AR069515 Ends May 2027
Research Training in Rheumatology University of Washington · Tomas Mustelin	Rheumatic disease etiology and treatment Trainees: Postdoc	rheumatology.uw.edu/fellowship/research-training	T32AR007108 Ends Jun 2031
Academic Rheumatology and Clinical Immunology UC San Francisco · Julie Zikherman	Physician-scientist training in rheumatology Trainees: Postdoc	rheumatology.ucsf.edu/education/research-training-program	T32AR079068 Ends May 2031
Training Program in Rheumatic and Musculoskeletal Diseases Research University of Alabama at Birmingham · John Mountz	Adult and pediatric RMD research Trainees: Postdoc	www.uab.edu/medicine/rheumatology/education-and-training/rheumatology-t32-program	T32AR069516 Ends Apr 2028
RMD Epidemiology and Outcomes Training Program UNC Chapel Hill · Leigh Callahan	RMD epidemiology and outcomes Trainees: Postdoc Clinical epidemiology and outcomes	www.med.unc.edu/tarc/research/t32-training-program/	T32AR082310 Ends Apr 2029
HSS Research Institute Rheumatology Training Hospital for Special Surgery · Jane Salmon	Rheumatic disease investigation Trainees: Pre, postdoc	www.hss.edu/research/hss-t32-training-program	T32AR071302 Ends Apr 2027

Musculoskeletal, orthopaedic, bone, and muscle · 21 programs

Program	Focus and trainees	Website	Award
Comprehensive Musculoskeletal Training Program Indiana University Indianapolis · Alexander Robling	Musculoskeletal science Trainees: Pre, postdoc, medical students	medicine.iu.edu/research-centers/musculoskeletal/education/comprehensive	T32AR065971 Ends Jun 2029
Musculoskeletal Research Training Program Mayo Clinic Rochester · Jennifer Westendorf	Interdisciplinary musculoskeletal research Trainees: Pre, postdoc, medical students OA-relevant	www.mayo.edu/research/training-grant-programs/musculoskeletal-research-training-program	T32AR056950 Ends Apr 2029
Interdisciplinary Musculoskeletal Research Training Program University of Minnesota · Elizabeth Bradley	Transdisciplinary musculoskeletal science Trainees: Pre	med.umn.edu/ortho/research/ms-training-program	T32AR083844 Ends Jul 2030
Integrated Training in Bone Biology, Biomechanics and Regeneration (IT3BR) Vanderbilt University · Jeffry Nyman	Bone biology, biomechanics, regeneration Trainees: Pre, postdoc OA-relevant	medschool.vanderbilt.edu/bret/nih-training-grants-managed-by-bret/	T32AR085529 Ends Jun 2030
Regenerative Musculoskeletal Medicine Training Program UC Los Angeles · John Adams	Regenerative musculoskeletal medicine Trainees: Postdoc OA-relevant	www.uclahealth.org/departments/ortho/research/ucla-regenerative-musculoskeletal-medicine-training-program	T32AR059033 Ends Jul 2030
Integrated Musculoskeletal Training Program Columbia University · X. Edward Guo	Biomedical engineering and musculoskeletal sciences Trainees: Pre	www.bme.columbia.edu/integrated-musculoskeletal-training-program-imtp	T32AR080744 Ends Apr 2028
Interdisciplinary Training in Musculoskeletal Research University of Colorado Denver · Michael Zuscik	Interdisciplinary musculoskeletal research Trainees: Pre, postdoc	medschool.cuanschutz.edu/orthopedics/colorado-program-for-musculoskeletal-research/education	T32AR080630 Ends Jun 2027
MUSCLE: Transdisciplinary Musculoskeletal Research Training Program UC Davis · J. Kent Leach	Musculoskeletal clinical and engineering research Trainees: Pre	muscletrainingprogram.ucdavis.edu/about-muscle-t32	T32AR079099 Ends Apr 2027
Skeletal Disorders Training Program Washington University in St. Louis · Roberto Civitelli	Skeletal disorders Trainees: Pre, postdoc OA-relevant	bonehealth.wustl.edu/education/skeletal-disorders-training-program/	T32AR060719 Ends Apr 2027
Pre and Post-Doctoral Training in Joint Health Rush University Medical Center · D. Rick Sumner	Musculoskeletal biology and mechanics; orthopaedic and rheumatology research Trainees: Pre, postdoc OA-relevant	rushu.rush.edu/nih-t32-training-grant-joint-health	T32AR073157 Ends May 2029
Training in Musculoskeletal Science (ROCMSK) University of Rochester · Hani Awad	Musculoskeletal science Trainees: Pre, postdoc	www.urmc.rochester.edu/musculoskeletal-research/grants/t32-training	T32AR076950 Ends Apr 2030
Training Program in Musculoskeletal Research Case Western Reserve University · Ronald Triolo	Comprehensive musculoskeletal research Trainees: Pre, postdoc	case.edu/bme/academics/graduate/training-programs/nih-t32-musculoskeletal-research	T32AR085533 Ends Aug 2031

Program	Focus and trainees	Website	Award
Training Program in Musculoskeletal Research University of Pennsylvania · Louis Soslowsky	Musculoskeletal research Trainees: Pre	<i>No program page found</i>	T32AR007132 Ends Apr 2028
UCSF Musculoskeletal Training Program UC San Francisco · Aaron Fields	Musculoskeletal science and care Trainees: Postdoc	msk.ucsf.edu/news/welcome-2025-2026-msk-t32-research-fellows	T32AR080618 Ends Mar 2028
Regenerative Engineering of Musculoskeletal Tissues UConn Health · Cato Laurencin	Convergence doctoral training in regenerative engineering Trainees: Pre	health.uconn.edu/regenerative-engineering-institute/t32doctoraltraining/	T32AR079114 Ends Jun 2027
Combined Engineering and Orthopaedics Training Program Hospital for Special Surgery · Suzanne Maher	Engineering applied to orthopaedic care Trainees: Pre, postdoc	www.hss.edu/hss-musculoskeletal-training-program.asp	T32AR078751 Ends Oct 2026
MAXIMUS: Maximizing Training in Muscle Research UC Irvine · Kyoko Yokomori	Muscle biology and muscular dystrophies Trainees: Pre, postdoc	sites.uci.edu/muscle	T32AR083870 Ends Apr 2029
Minnesota Muscle Training Program University of Minnesota · David Thomas	Interdisciplinary muscle research Trainees: Pre, postdoc	<i>No program page found</i>	T32AR007612 Ends Apr 2027
Muscle Cell Biology, Pathophysiology and Therapeutics UC Los Angeles · Rachelle Crosbie	Muscle cell biology and therapeutics Trainees: Pre, postdoc	cdmd.ucla.edu/muscle-cell-biology-pathophysiology-and-therapeutics	T32AR065972 Ends Mar 2031
Interdisciplinary Training Program in Muscle Biology University of Maryland Baltimore · Aikaterini Kontogianni-Konstantopoulos	Skeletal, cardiac, smooth muscle pathobiology Trainees: Pre, postdoc	www.medschool.umaryland.edu/biochemistry/Department-Programs/Muscle-Biology	T32AR007592 Ends Aug 2031
Training in Muscle Biology and Muscle Disease University of Pennsylvania · E. Michael Ostap	Muscle biology and disease Trainees: Pre, postdoc	www.med.upenn.edu/pmi/education-training/nih-supported-training-prog	T32AR053461 Ends Jun 2027

Skin biology and dermatology · 12 programs

Program	Focus and trainees	Website	Award
Post Graduate Program in Cutaneous Biology Northwestern University · Amy Paller	Cutaneous biology Trainees: Postdoc	www.feinberg.northwestern.edu/sites/dermatology/research/t32/index.html	T32AR060710 Ends Jun 2028
Training Grant in Cell and Molecular Dermatology University of Michigan · James Elder	Investigative dermatology Trainees: Postdoc	medresearch.umich.edu/departments/dermatology/education/research-training/postdoctoral-t32-training-program	T32AR007197 Ends Jun 2030
UCSF Dermatology Training Grant UC San Francisco · Wilson Liao	Dermatology research Trainees: Postdoc	<i>No program page found</i>	T32AR007175 Ends Apr 2029
Postgraduate Training in Epithelial Biology Stanford University · Paul Khavari	Skin and epithelial biology Trainees: Postdoc	epibio.stanford.edu/	T32AR007422 Ends Apr 2028
Dermatology Research Training Program UT Southwestern Medical Center · Tamia Harris-Tryon	Skin biology and disease Trainees: Postdoc	www.utsouthwestern.edu/education/medical-school/departments/dermatology/research/	T32AR065969 Ends May 2031
Training in Investigative Dermatology Yale University · Keith Choate	Academic dermatology Trainees: Pre, postdoc	medicine.yale.edu/dermatology/education/fellowships/investigative-dermatology-training-program/	T32AR007016 Ends Jun 2031
Future Academic Scientists in Dermatology Johns Hopkins University · Luis Garza	Translational dermatology research Trainees: Postdoc	www.hopkinsmedicine.org/dermatology/research/rsch-training	T32AR074920 Ends Jun 2031
Dermatology Training Grant Brigham and Women's Hospital · Thomas Kupper	Dermatology research Trainees: Postdoc	dermt32.bwh.harvard.edu	T32AR007098 Ends Jun 2031
Interdisciplinary Training Program in Skin Biology UC Irvine · Bogi Andersen	Interdisciplinary skin biology Trainees: Pre, postdoc	stemcell.uci.edu/Resources/Education-and-Training-Resources/T32Skin.php	T32AR080622 Ends Apr 2027
Penn Dermatology Research Training Program University of Pennsylvania · Elizabeth Grice	Skin biology and disease Trainees: Pre, postdoc	dermatology.upenn.edu/training/	T32AR007465 Ends Apr 2029
Research Training in Systems Skin Biology Icahn School of Medicine at Mount Sinai · Sarah Millar	Systems skin biology Trainees: Pre, postdoc	icahn.mssm.edu/files/ISMMS/Assets/Departments/Dermatology/T32-Web-content%20Brochure.pdf	T32AR082315 Ends Apr 2028
Training in Translational Research of Skin Diseases University of Colorado Denver · Dennis Roop	Translational skin disease research Trainees: Pre, postdoc	medschool.cuanschutz.edu/dermatology/education/postdoctoral-fellowship	T32AR007411 Ends Jun 2027