PMID	URL	Title	Journal/Book	Publication Year	Product(s)	Disease / Area of Study
38795029	38795029	From Collagen Mimetics to Collagen Hybridization and Back	Acc Chem Res	2024 N//		N/A
39247402 39356750	39247402 39356750	Promoting chondrogenesis by targeted delivery to the degenerating cartilage in early treatment of osteoarthritis  Collagen denaturation in post-run Achilles tendons and Achilles tendinopathy: In vivo mechanophysiology and magnetic resor	Acta Biomaterialia	2024 RC 2024 RC		OA Tendon Health
PREPRINT	PREPRINT	Targeting Molecular Collagen Defects from the Initiation of Knee Osteoarthritis	MedRxiv		HP, sCy7.5CHP	OA
38264898	38264898	Evaluation of Extracellular Matrix Remodeling in Full-thickness Skin Grafts in Mice	J Histochem Cytochem	2024 BC		ECM Remodeling
38275401	38275401	Modulating TRPV4 Channel Activity in Pro-Inflammatory Macrophages within the 3D Tissue Analog	Biomedicines	2024 BC	HP	Macrophage Activity
38487972	38487972	Salmonella-driven intestinal edema in mice is characterized by tensed fibronectin fibers	The FEBS Journal	2024 RC	HP	Intestinal Edema
38557892	38557892	Investigating the dose-dependency of the midgut escape barrier using a mechanistic model of within-mosquito dengue virus p	PLOS Pathogens	2024 FC	HP	Midgut Escape Barrier (Dengue Virus)
38877492	38877492	Evaluating the pro-survival potential of apoptotic bodies derived from 2D- and 3D- cultured adipose stem cells in ischaemic flat		2024 FC		Ischaemic Flaps
38915575	38915575	Fluorescein-Based SynNotch Adaptors for Regulating Gene Expression Responses to Diverse Extracellular Cues	bioRxiv	2024 FC		Gene Expression Responses to Extracellular Cues
39092166	<u>39092166</u>	Collagen integrity of the annulus fibrosus in degenerative disc disease individuals quantified with collagen hybridizing peptide	•	2024 RC		DDD
39354493	39354493	Mast cells promote choroidal neovascularization in a model of age-related macular degeneration	J Neuroinflammation	2024 FC		nAMD
DISSERTATION THESIS	DISSERTATION	DRIVERS OF FATIGUE INDUCED DEGENERATION IN A MOUSE ACHILLES TENDON EXPLANT MODEL  MAS-RELATED G PROTEIN-COUPLED RECEPTOR B2 ACTIVATION MEDIATES BLADDER WALL BIOMECHANICS	Pennsylvania State University	2024 FC 2024 FC		Achilles Fatigue, Degeneration Bladder Wall Biomechanics
PREPRINT	PREPRINT	Keratinocyte-Driven Dermal Collagen Formation in the Axolott skin	University of Michigan Nature Portfolio	2024 PC 2024 RC		Collagen Formation
ABSTRACT	ABSTRACT	Tbr1/Smad4 double knockout demonstrated that Smad4 played a pivotal role in Tbr1-dependent ECM synthesis and Tbr1-inde		2024 RC 2024 FC		Cornea Homeostasis
THESIS	THESIS	Mechanisms and Functions of Lipodystrophy in Dermal Fibrosis	Yale University	2024 BC		Dermal Fibrosis
THESIS	THESIS	Analysis of the collagen matrix in periodontal Ehlers-Danlos syndrome	Medizinischen Universität Innsbruck	2024 FC		EDS
NO PMID	NO PMID	Zingerone promotes the survival of ischaemic flap via the KEAP1-Nrf2 pathway	Journal of Functional Foods	2024 FC		Ischaemic Flaps
THESIS	THESIS	The Effect of Cyclic Buckling on the Structure and Mechanical Properties of Ovine Tendon	Saint Mary's University, Halifax, Nova Scotia	2024 RC		Tendon Health
38363214	38363214	Role of macrophages in regression of myocardial fibrosis following alleviation of left ventricular pressure overload	Am J Physiol Heart Circ Physiol	2024 FC	HP	MI
38401775	38401775	Multimodal experimental studies of the passive mechanical behavior of human aortas: Current approaches and future direction	Acta Biomater	2024 FC	HP	Vasculature (Cardiac)
38459660	38459660	Dihydrocapsaicin suppresses the STING-mediated accumulation of ROS and NLRP3 inflammasome and alleviates apoptosis a	Phytotherapy Research	2024 FC	HP	Skin Injury
38519491	38519491	Versatile human cardiac tissues engineered with perfusable heart extracellular microenvironment for biomedical applications	Nature Communications	2024		Cardiac Tissue
38702003	38702003	Improving hemocompatibility of decellularized vascular tissue by structural modification of collagen fiber	International Journal of Biological Macromolecules	2024 RC	HP, FCHP	Decellularized Tissue
38910439	38910439	Type VI Collagen Deficiency Causes Enhanced Periodontal Tissue Destruction	Journal of Dental Research	2024 FC		Connective Tissue
38989259	38989259	Collagen structures of demineralized bone paper direct mineral metabolism	ASMBR	2024 FC		Bone Mineral Metabolism
39043893	39043893	Inhibition of intrahepatic monocyte recruitment by Cenicriviroc and extracellular matrix degradation by MMP1 synergistically a		2024 FC		NASH
39060633	39060633	In vivo monitoring of active subretinal fibrosis in mice using collagen hybridizing peptides	Lab Anim (NY)		HP, sCy7.5CHP	nAMD
39361472	39361472	Delineating, Imaging, and Assessing Pulmonary Fibrosis Remodeling via Collagen Hybridization	ACS Nano	2024 RC		IPF
NO PMID PREPRINT	NO PMID PREPRINT	Pathogenesis of human atheroma necrotic core: degradation of connective tissue fibers and possible involvement of cathepsi Oxidative stress induces intervertebral ECM remodelling, elevated tissue stiffness and idiopathic-like scoliosis	Nature Portfolio	2024 BC 2024 Un		Connective Tissue ECM Remodeling
NO PMID	NO PMID	Molecular imaging of collagen remodeling in a murine model of lung fibrosis	Journal of Nuclear Medicine	2024 RC		IPF
PREPRINT	PREPRINT		medRxiv	2024 FC		Microstructure Damage, Aortic Coarctation Tissue
NO PMID	NO PMID	Chiral Arginine Modified Electrospun Membrane for Enhancing Tendon Healing	Advanced Functional Materials	2024 RC		Tendon Health
36400348	36400348	Collagen fibrils from both positional and energy-storing tendons exhibit increased amounts of denatured collagen when stretc		2023 FC		Tendon Overuse
36244509	36244509	HPMA copolymer-collagen hybridizing peptide conjugates targeted to breast tumor extracellular matrix	J Control Release	2023 sC	/7.5CHP	Cancer (Breast Tumor ECM)
36470429	36470429	A midposition NOTCH3 truncation in inherited cerebral small vessel disease may affect the protein interactome.	Journal of Biological Chemistry	2023 BC	HP	Cerebral Small Vessel Disease
36711975	36711975	Apical expansion of calvarial osteoblasts and suture patency is dependent on graded fibronectin cues.	bioRxiv	2023 BC	HP	Calvarial Osteoblasts
36724294	36724294	Targeting Intratibial Osteosarcoma Using Water-Soluble Copolymers Conjugated to Collagen Hybridizing Peptides	Mol Pharm	2023 Cu	stom	OS
36958089	36958089	Development and application of a novel in vivo overload model of the Achilles tendon in rat	J Biomech	2023 BC		Tendon Overuse
37087677	37087677	Targeting damaged collagen for intra-articular delivery of therapeutics using collagen hybridizing peptides	J Orthop Res	2023 Un		OA, Drug Delivery
37090547	37090547	Desmoplastic stroma restricts T cell extravasation and mediates immune exclusion and immunosuppression in solid tumors		2023 RC		PDAC, Desmoplastic Tumors
37092727	37092727	• • • • • • • • • • • • • • • • • • • •	Am J Sports Med	2023 RC		Ligament Overuse
37321327 37399743	<u>37321327</u> <u>37399743</u>	Targeting collagen damage for sustained in situ antimicrobial activities  Denatured collagen inhibits neuroblastoma tumor-sphere migration and growth via the LOX/LOXL2 - FAK signaling pathway	J Control Release Journal of Thermal Biology	2023 Un 2023 FC		Antimicrobials Neuroblastoma Tumors
37615835	<u>37615835</u>	Natural Retinol Analogs Potentiate the Effects of Retinal on Aged and Photodamaged Skin: Results from In Vitro to Clinical Stu		2023 FC 2023 BC		Skin Damage
37765538	37765538	Effect of Different Crosslinkers on Denatured Dentin Collagen's Biostability, MMP Inhibition and Mechanical Properties	Polymers (Basel)	2023 BC		Dentin Collagen
ABSTRACT	ABSTRACT	High Strain Rate Damage in Cerebral Arteries: A Molecular and Mechanical Analysis	University of Utah	2023 FC		Cerebral Arteries
NO PMID	NO PMID	Utilizing micro-CT imaging to define collagen modeling in murine aorta	Biophysical Journal	2023		Aorta Collagen Remodeling
35318675	35318675	Development of a cell-free strategy to recover aged skeletal muscle after disuse	The Journal of Physiology	2023		Muscle Recovery
36097314	36097314	Collagen Molecular Damage is a Hallmark of Early Atherosclerosis Development	J Cardiovasc Transl Res	2023 RC	HP	Atherosclerosis
36272709	36272709	FOXL1+ Telocytes in mouse colon orchestrate extracellular matrix biodynamics and wound repair resolution.	J Proteomics	2023 FC	HP	Wound Repair
36691905	36691905	Homeostatic, Non-Canonical Role of Macrophage Elastase in Vascular Integrity	Circulation Research	2023 RC		Vascular Health, Macrophages
36944295	36944295	Mouse Achilles tendons exhibit collagen disorganization but minimal collagen denaturation during cyclic loading to failure	Journal of Biomechanics	2023 FC		Tendon Loading and Failure
36948453	36948453	Damaged collagen detected by collagen hybridizing peptide as efficient diagnosis marker for early hepatic fibrosis	Biochim Biophys Acta Gene Regul Mech	2023 sC		NASH
36960056	36960056	Degradation of collagen I by activated C1s in periodontal Ehlers-Danlos Syndrome	Frontiers in Immunology	2023 FC		Ehlers-Danlos Syndrome (EDS)
36967667	<u>36967667</u>	Controlling the Trimerization of the Collagen Triple-Helix by Solvent Switching	Biomacromolecules	2023 Cu		Collagen Timerization
36998974	36998974	Myofibroblast Ccn3 is regulated by Yap and Wwtr1 and contributes to adverse cardiac outcomes	Frontiers in Cardiovascular Medicine	2023 RC		Cardiac Health, Myofibroblasts
37029304	37029304	Developmental growth plate cartilage formation suppressed by artificial light at night via inhibiting BMAL1-driven collagen hyd		2023 FC		Growth Plates
37067505 37158802	37067505 37158802	Structural and biofunctional evaluation of decellularized jellyfish matrices  The Chemistry and Biology of Collagen Hybridization	J Am Chem Soc	2023 Un	KNOWN HP, RCHP, BCHP, sCy7.5CHP	Biomaterials CHP chemistry/biology
37158802 37305034	37158802 37305034	The Chemistry and Biology of Collagen Hybridization  Perturbations in fatty acid metabolism and collagen production infer pathogenicity of a novel MBTPS2 variant in Osteogenesis		2023 FC 2023 RC		Osteogenesis Imperfecta
37352350	<u>37305034</u> <u>37352350</u>	Optogenetic-induced muscle loading leads to mechanical adaptation of the Achilles tendon enthesis in mice	Science Advances	2023 RC 2023 FC		Tendon Loading
37361328	<u>37361328</u>	Galectin-3 and RAGE differentially control advanced glycation endproduct-induced collagen damage in murine intervertebral of		2023 BC		IVD Degeneration, AGE-induced collagen damage
37478857	37478857	Mechanical confinement promotes heat resistance of hepatocellular carcinoma via SP1/IL4I1/AHR axis	Cell Reports: Medicine	2023 FC		Hepatocellular Carcinoma (HCC)

37486024	37486024	Disuse-induced muscle fibrosis, cellular senescence, and senescence-associated secretory phenotype in older adults are alle		2023 BCHP	Muscle Fibrosis
37555328	37555328	PROX1 Inhibits PDGF-B Expression to Prevent Myxomatous Degeneration of Heart Valves	Circulation Research	2023 RCHP	Heart Valves
37619896	<u>37619896</u>	An in vitro culture platform to study the extracellular matrix remodeling potential of human mesenchymal stem cells	Acta Biomater	2023 FCHP	ECM Remodeling
37653282	37653282	Cell mediated ECM-degradation as an emerging tool for anti-fibrotic strategy	Cell Regeneration	2023	11 69
37696857	37696857	A thioacetamide-induced liver fibrosis model for pre-clinical studies in microminipig	Scientific Reports	2023 RCHP	Liver Fibrosis
37768341	37768341	Omentin-1 induces mechanically activated fibroblasts lipogenic differentiation through pkm2/yap/ppary pathway to promote		2023 RCHP	IPF
37812574	37812574	Core-Shell Droplet-Based Angiogenic Patches for the Treatment of Ischemic Diseases: Ultrafast Processability, Physical Tunal	**	2023 RCHP	Ischemic Diseases
37850255 NO PMID	37850255 NO PMID	A snake cathelicidin enhances transcription factor EB-mediated autophagy and alleviates ROS-induced pyroptosis after ischa	BioRxiv	2023 FCHP 2023 RCHP	Ischaemic Flaps
35427958	35427958	Hybrid hydrogel-extracellular matrix scaffolds identify distinct ligand and mechanical signatures in cardiac aging  Empirical evidence that bone collagen molecules denature as a result of bone fracture	J Mech Behav Biomed Mater	2022 FCHP	Cardiac Aging Bone Structure
34656007	34656007	Focusing on intramuscular connective tissue: Effect of cooking time and temperature on physical, textual, and structural prop		2022 FCHP	Connective Tissue
34714974	<u>34714974</u>	Structurally abnormal collagen fibrils in abdominal aortic aneurysm resist platelet adhesion	J Thromb Haemost	2022 RCHP	Platelet Adhesion
34872436	34872436	Inhibition of PLA2G4E/cPLA2 promotes survival of random skin flaps by alleviating Lysosomal membrane permeabilization-inc		2022 FCHP	Skin Necrosis
34918297	34918297	In Vivo and Ex Vivo Analysis of Omental Adhesion in Ovarian Cancer	Methods Mol Biol	2022 Unknown	OvCa
35232524	35232524	Self-Assembling Toroidal Cell Constructs for Tissue Engineering Applications	Microscopy and Microanalysis	2022	Tissue Engineering
35431088	35431088	Dentin collagen denaturation status assessed by collagen hybridizing peptide and its effect on bio-stabilization of proanthocy.	· · · · · · · · · · · · · · · · · · ·	2022 FCHP	Dentin Collagen
35434632	35434632	Mechanotherapy Reprograms Aged Muscle Stromal Cells to Remodel the Extracellular Matrix during Recovery from Disuse	Function	2022 BCHP	ECM Remodeling
35457064	35457064	Quadruped Gait and Regulation of Apoptotic Factors in Tibiofemoral Joints following Intra-Articular rhPRG4 Injection in Prg4 N	u Int J Mol Sci	2022 BCHP	CACP
35519279	35519279	Blue-LIRIC in the rabbit cornea: efficacy, tissue effects, and repetition rate scaling	Biomed Opt Express	2022 BCHP	LIRIC
35657618	35657618	Mechanisms that limit regression of myocardial fibrosis following removal of left ventricular pressure overload	Am J Physiol Heart Circ Physiol	2022 BCHP	MI
35992346	35992346	Intra-articular MMP-1 in the spinal facet joint induces sustained pain and neuronal dysregulation in the DRG and spinal cord, a	ar Front Bioeng Biotechnol	2022 FCHP	Spinal Cord
36055109	36055109	Development of a continuum damage model to predict accumulation of sub-failure damage in tendons	J Mech Behav Biomed Mater	2022 FCHP	Tendon Overuse
37116635	37116635	Strain-induced collagen denaturation is rate dependent in failure of cerebral arteries	Social Science Research Network	2022 FCHP	Molecular Collagen Damage: Strain Rate
NO PMID	NO PMID	Collagen Denaturation as a Toughening Mechanism in Cortical Bone	University of Waterloo	2022 FCHP	Cortical Bone
THESIS	THESIS	Galectin-3 Mediates Advanced Glycation Endproduct-Induced Collagen Damage in Intervertebral Discs.	Icahn School of Medicine at Mount Sinai	2022 BCHP	AGE induced Collagen damage (IVD)
THESIS	THESIS	Evaluation of Hemodynamic Induced Alterations in Extracellular Matrix Organization in Atherogenesis	University of Utah	2022 RCHP	ECM Organization
THESIS	THESIS	The Effects of a Myocardial Hydrogel on Duchenne Muscular Dystrophy-Associated Cardiomyopathy	University of California, Los Angeles	2022 FCHP	Muscular Dystrophy-Associated Cardiomyopathy
DISSERTATION	DISSERTATION	The Lymphogenic and Hemangiogenic factors affecting The Human Sclera	Koln University	2022 RCHP	Sclera
THESIS	THESIS	A Novel Model to Study Adipose-Derived Stem Cell Differentiation	University of South Carolina	2022 FCHP	Stem Cells
DISSERTATION	DISSERTATION		University of Utah	2022 FCHP	Tendon Failure
PREPRINT	PREPRINT	Mouse Achilles Tendons are Resistant to Collagen Denaturation during Cyclic 3 and Monotonic Loading to Failure	Social Science Research Network	2022 FCHP	Tendon Loading and Failure
34561295	34561295	Intracellular hydroxyproline imprinting following resolution of bleomycin-induced pulmonary fibrosis	European Respiratory Journal	2022 RCHP	IPF
34580237	34580237	A New Murine Liver Fibrosis Model Induced by Polyhexamethylene Guanidine-Phosphate	Biomolecules & Therpaeutics	2022 RCHP	NASH
34905511	34905511	Smad7 effects on TGF-β and ErbB2 restrain myofibroblast activation and protect from postinfarction heart failure	The Journal of Clinical Investigation	2022 FCHP	MI, Myofibroblast Activation
25100527	25100527	Considerating by F7110 suppressed TCF 0 esticits within the decides to superturg and several entering at the matern	v Call Departs	2022 DOLLD	Wound Hooling
35108527	<u>35108527</u>	Gene silencing by EZH2 suppresses TGF-β activity within the decidua to avert pregnancy-adverse wound healing at the matern		2022 RCHP	Wound Healing
35175105	<u>35175105</u>	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization	Journal of Applied Physiology	2022 FCHP	Muscle Recovery
35175105 35189973	35175105 35189973	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization Modeling oxidative injury response in human kidney organoids	Journal of Applied Physiology Stem Cell Research & Therapy	2022 FCHP 2022 RCHP	Muscle Recovery Oxidative Injury, Kidney
35175105 35189973 35230974	35175105 35189973 35230974	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization  Modeling oxidative injury response in human kidney organoids  Remodeling the tumor microenvironment via blockade of LAIR-1 and TGF-β signaling enables PD-L1-mediated tumor eradications.	Journal of Applied Physiology Stem Cell Research & Therapy ir The Journal of Clinical Investigation	2022 FCHP 2022 RCHP 2022 BCHP, BCHPCTL	Muscle Recovery Oxidative Injury, Kidney LAIR-1, Tumor Microenvironment Remodeling
35175105 35189973 35230974 35650319	35175105 35189973 35230974 35650319	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization  Modeling oxidative injury response in human kidney organoids  Remodeling the tumor microenvironment via blockade of LAIR-1 and TGF-β signaling enables PD-L1-mediated tumor eradicated Ablation of the miRNA cluster 24 in cartilage and osteoblasts impairs bone remodeling	Journal of Applied Physiology Stem Cell Research & Therapy ir The Journal of Clinical Investigation Scientific Reports	2022 FCHP 2022 RCHP 2022 BCHP, BCHPCTL 2022 RCHP	Muscle Recovery Oxidative Injury, Kidney LAIR-1, Tumor Microenvironment Remodeling Bone Remodeling
35175105 35189973 35230974 35650319 35893698	35175105 35189973 35230974 35650319 35893698	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization  Modeling oxidative injury response in human kidney organoids  Remodeling the tumor microenvironment via blockade of LAIR-1 and TGF-β signaling enables PD-L1-mediated tumor eradicated Ablation of the miRNA cluster 24 in cartilage and osteoblasts impairs bone remodeling  Matrix Metalloproteinases Expression Is Associated with SARS-CoV-2-Induced Lung Pathology and Extracellular-Matrix Remodeling	Journal of Applied Physiology Stem Cell Research & Therapy in The Journal of Clinical Investigation Scientific Reports di Viruses	2022 FCHP 2022 RCHP 2022 BCHP, BCHPCTL 2022 RCHP 2022 RCHP	Muscle Recovery Oxidative Injury, Kidney LAIR-1, Tumor Microenvironment Remodeling Bone Remodeling COVID19
35175105 35189973 35230974 35650319 35893698 36063900	35175105 35189973 35230974 35650319 35893698 36063900	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization  Modeling oxidative injury response in human kidney organoids  Remodeling the tumor microenvironment via blockade of LAIR-1 and TGF-β signaling enables PD-L1-mediated tumor eradicated Ablation of the miRNA cluster 24 in cartilage and osteoblasts impairs bone remodeling  Matrix Metalloproteinases Expression Is Associated with SARS-CoV-2-Induced Lung Pathology and Extracellular-Matrix Remodes  Smurf2 Regulates Inflammation and Collagen Processing in Cutaneous Wound Healing through Transforming Growth Factor-	Journal of Applied Physiology Stem Cell Research & Therapy it The Journal of Clinical Investigation Scientific Reports di Viruses B. The American Journal of Pathology	2022 FCHP 2022 RCHP 2022 BCHP, BCHPCTL 2022 RCHP 2022 RCHP 2022 RCHP	Muscle Recovery Oxidative Injury, Kidney LAIR-1, Tumor Microenvironment Remodeling Bone Remodeling COVID19 Wound Healing, Inflammation
35175105 35189973 35230974 35650319 35893698 36063900 36111352	35175105 35189973 35230974 35650319 35893698 36063900 36111352	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization  Modeling oxidative injury response in human kidney organoids  Remodeling the tumor microenvironment via blockade of LAIR-1 and TGF- $\beta$ signaling enables PD-L1-mediated tumor eradicated Ablation of the miRNA cluster 24 in cartilage and osteoblasts impairs bone remodeling  Matrix Metalloproteinases Expression Is Associated with SARS-CoV-2-Induced Lung Pathology and Extracellular-Matrix Remodes Smurf2 Regulates Inflammation and Collagen Processing in Cutaneous Wound Healing through Transforming Growth Factor- $\beta$ Age alters the oncogenic trajectory toward luminal mammary tumors that activate unfolded proteins responses	Journal of Applied Physiology Stem Cell Research & Therapy it The Journal of Clinical Investigation Scientific Reports di Viruses B. The American Journal of Pathology Aging Cell	2022 FCHP 2022 RCHP 2022 BCHP, BCHPCTL 2022 RCHP 2022 RCHP 2022 RCHP 2022 BCHP	Muscle Recovery Oxidative Injury, Kidney LAIR-1, Tumor Microenvironment Remodeling Bone Remodeling COVID19 Wound Healing, Inflammation Mammary Tumors
35175105 35189973 35230974 35650319 35893698 36063900	35175105 35189973 35230974 35650319 35893698 36063900	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization  Modeling oxidative injury response in human kidney organoids  Remodeling the tumor microenvironment via blockade of LAIR-1 and TGF-β signaling enables PD-L1-mediated tumor eradicated Ablation of the miRNA cluster 24 in cartilage and osteoblasts impairs bone remodeling  Matrix Metalloproteinases Expression Is Associated with SARS-CoV-2-Induced Lung Pathology and Extracellular-Matrix Remodes  Smurf2 Regulates Inflammation and Collagen Processing in Cutaneous Wound Healing through Transforming Growth Factor-	Journal of Applied Physiology Stem Cell Research & Therapy it The Journal of Clinical Investigation Scientific Reports di Viruses B. The American Journal of Pathology	2022 FCHP 2022 RCHP 2022 BCHP, BCHPCTL 2022 RCHP 2022 RCHP 2022 RCHP	Muscle Recovery Oxidative Injury, Kidney LAIR-1, Tumor Microenvironment Remodeling Bone Remodeling COVID19 Wound Healing, Inflammation
35175105 35189973 35230974 35650319 35893698 36063900 36111352 36188490	35175105 35189973 35230974 35650319 35893698 36063900 36111352 36188490	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization  Modeling oxidative injury response in human kidney organoids  Remodeling the tumor microenvironment via blockade of LAIR-1 and TGF- $\beta$ signaling enables PD-L1-mediated tumor eradicated Ablation of the miRNA cluster 24 in cartilage and osteoblasts impairs bone remodeling  Matrix Metalloproteinases Expression Is Associated with SARS-CoV-2-Induced Lung Pathology and Extracellular-Matrix Remodes Smurf2 Regulates Inflammation and Collagen Processing in Cutaneous Wound Healing through Transforming Growth Factor-Fage alters the oncogenic trajectory toward luminal mammary tumors that activate unfolded proteins responses  Another Wrinkle with Age: Aged Collagen and Intra-peritoneal Metastasis of Ovarian Cancer	Journal of Applied Physiology Stem Cell Research & Therapy it The Journal of Clinical Investigation Scientific Reports di Viruses B. The American Journal of Pathology Aging Cell Aging Cancer	2022 FCHP 2022 RCHP 2022 BCHP, BCHPCTL 2022 RCHP 2022 RCHP 2022 RCHP 2022 BCHP 2022 BCHP	Muscle Recovery Oxidative Injury, Kidney LAIR-1, Tumor Microenvironment Remodeling Bone Remodeling COVID19 Wound Healing, Inflammation Mammary Tumors Cancer (OvCa)
35175105 35189973 35230974 35650319 35893698 36063900 36111352 36188490 ABSTRACT	35175105 35189973 35230974 35650319 35893698 36063900 36111352 36188490 ABSTRACT	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization  Modeling oxidative injury response in human kidney organoids  Remodeling the tumor microenvironment via blockade of LAIR-1 and TGF-β signaling enables PD-L1-mediated tumor eradicat  Ablation of the miRNA cluster 24 in cartilage and osteoblasts impairs bone remodeling  Matrix Metalloproteinases Expression Is Associated with SARS-CoV-2-Induced Lung Pathology and Extracellular-Matrix Remod  Smurf2 Regulates Inflammation and Collagen Processing in Cutaneous Wound Healing through Transforming Growth Factor-β  Age alters the oncogenic trajectory toward luminal mammary tumors that activate unfolded proteins responses  Another Wrinkle with Age: Aged Collagen and Intra-peritoneal Metastasis of Ovarian Cancer  Use of collagen-hybridizing peptides to assess active fibrosis in 2 mouse models of choroidal neovascularization.	Journal of Applied Physiology Stem Cell Research & Therapy it The Journal of Clinical Investigation Scientific Reports d. Viruses B. The American Journal of Pathology Aging Cell Aging Cancer Investigative Ophthalmology & Visual Science J Biol Chem	2022 FCHP 2022 RCHP 2022 BCHP, BCHPCTL 2022 RCHP 2022 RCHP 2022 RCHP 2022 BCHP 2022 BCHP 2022 BCHP 2022 SCY7.5CHP	Muscle Recovery Oxidative Injury, Kidney LAIR-1, Tumor Microenvironment Remodeling Bone Remodeling COVID19 Wound Healing, Inflammation Mammary Tumors Cancer (OvCa) Subretinal Fibrosis, Choroidal Neovascularization
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35175105 35189973 35230974 35650319 35893698 36063900 36111352 36188490 ABSTRACT 33154166 34058190	35175105 35189973 35230974 35650319 35893698 36063900 36111352 36188490 ABSTRACT 33154166 34058190	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization  Modeling oxidative injury response in human kidney organoids  Remodeling the tumor microenvironment via blockade of LAIR-1 and TGF-β signaling enables PD-L1-mediated tumor eradicated Ablation of the miRNA cluster 24 in cartilage and osteoblasts impairs bone remodeling  Matrix Metalloproteinases Expression Is Associated with SARS-CoV-2-Induced Lung Pathology and Extracellular-Matrix Remodes Smurf2 Regulates Inflammation and Collagen Processing in Cutaneous Wound Healing through Transforming Growth Factor-β Age alters the oncogenic trajectory toward luminal mammary tumors that activate unfolded proteins responses  Another Wrinkle with Age: Aged Collagen and Intra-peritoneal Metastasis of Ovarian Cancer  Use of collagen-hybridizing peptides to assess active fibrosis in 2 mouse models of choroidal neovascularization.  4-Phenylbutyric acid enhances the mineralization of osteogenesis imperfecta iPSC-derived osteoblasts  Post-translational activation of Mmp2 correlates with patterns of active collagen degradation during the development of the zero.	Journal of Applied Physiology Stem Cell Research & Therapy it The Journal of Clinical Investigation Scientific Reports di Viruses B. The American Journal of Pathology Aging Cell Aging Cancer Investigative Ophthalmology & Visual Science J Biol Chem e Dev Biol	2022 FCHP 2022 RCHP 2022 BCHP, BCHPCTL 2022 RCHP 2022 RCHP 2022 RCHP 2022 BCHP 2022 BCHP 2022 BCHP 2022 SCY7.5CHP 2021 FCHP 2021 RCHP	Muscle Recovery Oxidative Injury, Kidney LAIR-1, Tumor Microenvironment Remodeling Bone Remodeling COVID19 Wound Healing, Inflammation Mammary Tumors Cancer (OvCa) Subretinal Fibrosis, Choroidal Neovascularization OI ECM Remodeling
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35175105 35189973 35230974 35650319 35893698 36063900 36111352 36188490 ABSTRACT 33154166 34058190 34314889 34393771 NO PMID DISSERTATION THESIS PREPRINT THESIS 33045326 33271356 33582160 33669150 33966129 33986436 3399919 34048934 34446744 34480023	35175105 35189973 35230974 35650319 35893698 36063900 36111352 36188490 ABSTRACT 33154166 34058190 34314888 34314888 34314888 34314889 34393771 NO PMID DISSERTATION THESIS PREPRINT THESIS 33045326 33271356 33582160 33869150 33966129 33986436 33999919 34048934 34446744 34480023	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization Modeling oxidative injury response in human kidney organoids Remodeling the tumor microenvironment via blockade of LAIR-1 and TGF-β signaling enables PD-L1-mediated tumor eradicated hablation of the miRNA cluster 24 in cartilage and osteoblasts impairs bone remodeling Matrix Metalloproteinases Expression Is Associated with SARS-CoV-2-Induced Lung Pathology and Extracellular-Matrix Remot Smurf2 Regulates Inflammation and Collagen Processing in Cutaneous Wound Healing through Transforming Growth Factor-β Age alters the oncogenic trajectory toward luminal mammary tumors that activate unfolded proteins responses Another Wrinkle with Age: Aged Collagen and Intra-peritoneal Metastasis of Ovarian Cancer Use of collagen-hybridizing peptides to assess active fibrosis in 2 mouse models of choroidal neovascularization. 4-Phenylbutyric acid enhances the mineralization of osteogenesis imperfecta iPSC-derived osteoblasts Post-translational activation of Mmp2 correlates with patterns of active collagen degradation during the development of the zem Mechanical characterisation of the human dura mater, falx cerebri and superior sagittal sinus Tendons exhibit greater resistance to tissue and molecular-level damage with increasing strain rate during cyclic fatigue Adipose Stromal Cell-Secretome Counteracts Profibrotic Signals From IPF Lung Matrices Distinct fibroblast and pericyte lineages in skin development and repair Growth and Mechanobiology of the Achilles Enthesis in Mice Biomechanical & Biochemical Contributions of Matrix Metalloproteinases in Joint Pain: Models, Mechanisms, & Patients Mechanisms and Effects of Femtosecond Laser Micromachining in Ophthalmic Materials and Ocular Tissue Reprogramming adult tendon healing using regenerative neonatal regulatory T cells Role of Regulatory T-Cells in Tendon Regeneration Grape polyphenols and exercise training have distinct molecular effects on cardiac hypertrophy in a model of obese insulin-r	Journal of Applied Physiology Stem Cell Research & Therapy it The Journal of Clinical Investigation Scientific Reports di Viruses B. The American Journal of Pathology Aging Cell Aging Cancer Investigative Ophthalmology & Visual Science J Biol Chem e Dev Biol Acta Biomater Acta Biomater Acta Biomaterialia Front Pharmacol King's College London University of Deleware University of Pennsylvania University of Rochester BioRxiv Icahn School of Medicine at Mount Sinai Is Journal of Nutritional Biochemistry a Acta Biomaterialia ri Journal of Molecular and Cellular Cardiology ' Frontiers in Bioengineering and Biotechnology Histochem Cell Biol Scientific Reports PLoS One In Matrix Biol Scientific Reports Dutal Communications	2022 FCHP 2022 RCHP 2022 BCHP, BCHPCTL 2022 RCHP 2022 RCHP 2022 RCHP 2022 BCHP 2022 BCHP 2022 BCHP 2022 SCY7.5CHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 BCHP 2021 FCHP 2021 BCHP 2021 FCHP	Muscle Recovery Oxidative Injury, Kidney LAIR-1, Tumor Microenvironment Remodeling Bone Remodeling COVID19 Wound Healing, Inflammation Mammary Tumors Cancer (OvCa) Subretinal Fibrosis, Choroidal Neovascularization OI ECM Remodeling TBI Tendon Overuse IPF Skin Repair, Fibroblasts Achilles Enthesis Joint Pain Ophthalmologic Damage Tendon Healing Tendon Regeneration Cardiac Hypertrophy Bone Graft Cardiac Fibroblasts Cell-Matrix Interactions Sclera Inflammation Decellularized Tissue MI Dementia, Cerebral Vasculature IVD Degeneration
35175105 35189973 35230974 35650319 35893698 36063900 36111352 36188490 ABSTRACT 33154166 34058190 34314889 34393771 NO PMID DISSERTATION THESIS PREPRINT THESIS 98271356 33271356 33271356 33864129 33986436 33999919 34048934 34446744 34480023 34584195	35175105 35189973 35230974 35650319 35893698 36063900 36111352 36188490 ABSTRACT 33154166 34058190 34314889 34393771 NO PMID DISSERTATION THESIS PREPRINT THESIS 33045326 33271356 33582160 33869150 33966129 33986436 3399919 34048934 34446744 34480023 345230974	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization Modeling oxidative injury response in human kidney organoids Remodeling the tumor microenvironment via blockade of LAIR-1 and TGF-β signaling enables PD-L1-mediated tumor eradicated Ablation of the miRNA cluster 24 in cartilage and osteoblasts impairs bone remodeling Matrix Metalloproteinases Expression Is Associated with SARS-CoV-2-Induced Lung Pathology and Extracellular-Matrix Remot Smurf2 Regulates Inflammation and Collagen Processing in Cutaneous Wound Healing through Transforming Growth Factor-Age alters the oncogenic trajectory toward luminal mammary tumors that activate unfolded proteins responses Another Wrinkle with Age: Aged Collagen and Intra-peritoneal Metastasis of Ovarian Cancer Use of collagen-hybridizing peptides to assess active fibrosis in 2 mouse models of choroidal neovascularization. 4-Phenytbutyric acid enhances the mineralization of osteogenesis imperfecta IPSC-derived osteoblasts Post-translational activation of Mmp2 correlates with patterns of active collagen degradation during the development of the zometanical characterisation of the human dura mater, falx cerebri and superior sagittal sinus Tendons exhibit greater resistance to tissue and molecular-level damage with increasing strain rate during cyclic fatigue Adipose Stromal Cell-Secretome Counteracts Profibrotic Signals From IPF Lung Matrices Distinct fibroblast and pericyte lineages in skin development and repair Growth and Mechanobiology of the Achilles Enthesis in Mice Biomechanical & Biochemical Contributions of Matrix Metalloproteinases in Joint Pain: Models, Mechanisms, & Patients Mechanisms and Effects of Femtosecond Laser Micromachining in Ophthalmic Materials and Ocular Tissue Reprogramming adult tendon healing using regenerative neonatal regulatory T cells Role of Regulatory T-Cells in Tendon Regeneration Grape polyphenols and exercise training have distinct molecular effects on cardiac hypertrophy in a model of obese insulin-re- Fabr	Journal of Applied Physiology Stem Cell Research & Therapy it The Journal of Clinical Investigation Scientific Reports di Viruses B. The American Journal of Pathology Aging Cell Aging Cancer Investigative Ophthalmology & Visual Science J Biol Chem e Dev Biol Acta Biomater Acta Biomaterialia Front Pharmacol King's College London University of Deleware University of Pennsylvania University of Rochester BioRxiv Icaha School of Medicine at Mount Sinai sis Journal of Nutritional Biochemistry a Acta Biomaterialia Frontiers in Bioengineering and Biotechnology Histochem Cell Biol Scientific Reports PLoS One Matrix Biol Scientific Reports On Sture Communications of Experimental and Molecular Medicine	2022 FCHP 2022 RCHP 2022 BCHP, BCHPCTL 2022 RCHP 2022 RCHP 2022 RCHP 2022 BCHP 2022 BCHP 2022 BCHP 2022 SCY7.5CHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 BCHP 2021 FCHP	Muscle Recovery Oxidative Injury, Kidney LAIR-1, Tumor Microenvironment Remodeling Bone Remodeling COVID19 Wound Healing, Inflammation Mammary Tumors Cancer (OvCa) Subretinal Fibrosis, Choroidal Neovascularization OI ECM Remodeling TBI Tendon Overuse IPF Skin Repair, Fibroblasts Achilles Enthesis Joint Pain Ophthalmologic Damage Tendon Healing Tendon Regeneration Cardiac Hypertrophy Bone Graft Cardiac Fibroblasts Cell-Matrix Interactions Sclera Inflammation Decellularized Tissue MI Dementia, Cerebral Vasculature IVD Degeneration Cardiac Repair
35175105 35189973 35230974 35650319 35893698 36063900 36111352 36188490 ABSTRACT 33154166 34058190 34314888 34314889 34393771 NO PMID DISSERTATION THESIS PREPRINT THESIS 9REPRINT THESIS 33045326 33271356 33582160 33869150 33966129 33986436 33999919 34048934 34480023 34584195 34622942	35175105 35189973 35230974 35650319 35833698 36063900 36111352 36188490 ABSTRACT 33154166 34058190 34314889 34314889 34393771 NO PMID DISSERTATION THESIS PREPRINT THESIS 33045326 33271356 33582160 33966129 33986436 3399919 34048934 3446744 34460023 34584195 34622942	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization Modeling oxidative injury response in human kidney organoids Remodeling the tumor microenvironment via blockade of LAIR-1 and TGF-ß signaling enables PD-L1-mediated tumor eradicated Ablation of the miRNA cluster 24 in cartilage and osteoblasts impairs bone remodeling Matrix Metalloproteinases Expression Is Associated with SARS-CoV-2-Induced Lung Pathology and Extracellular-Matrix Remote Smurf2 Regulates Inflammation and Collagen Processing in Cutaneous Wound Healing through Transforming Growth Factor-ß Age alters the oncogenic trajectory toward luminal mammary tumors that activate unfolded proteins responses Another Wrinkle with Age: Aged Collagen and Intra-peritoneal Metastasis of Ovarian Cancer Use of collagen-hybridizing peptides to assess active fibrosis in 2 mouse models of choroidal neovascularization. 4-Phenylbutyric acid enhances the mineralization of osteogenesis imperfecta iPSC-derived osteoblasts Post-translational activation of Mmp2 correlates with patterns of active collagen degradation during the development of the zero Mechanical characterisation of the human dura mater, falx cerebri and superior sagittal sinus Tendons exhibit greater resistance to tissue and molecular-level damage with increasing strain rate during cyclic fatigue Adipose Stromal Cell-Secretome Counteracts Profibrotic Signals From IPF Lung Matrices Distinct fibroblast and pericyte lineages in skin development and repair Growth and Mechanobiology of the Achilles Enthesis in Mice Biomechanical & Biochemical Contributions of Matrix Metalloproteinases in Joint Pain: Models, Mechanisms, & Patients Mechanisms and Effects of Femtosecond Laser Micromachining in Ophthalmic Materials and Ocular Tissue Reprogramming adult tendon healing using regenerative neonatal regulatory T cells Role of Regulatory T-Cells in Tendon Regeneration Grape polyphenols and exercise training have distinct molecular effects on cardiac hypertrophy in a model of obese insulin-r	Journal of Applied Physiology Stem Cell Research & Therapy it The Journal of Clinical Investigation Scientific Reports di Viruses B. The American Journal of Pathology Aging Cell Aging Cancer Investigative Ophthalmology & Visual Science J Biol Chem e Dev Biol Acta Biomater Acta Biomaterialia Front Pharmacol King's College London University of Deleware University of Pennsylvania University of Rochester BioRxiv Icaha School of Medicine at Mount Sinai sis Journal of Nutritional Biochemistry a Acta Biomaterialia Frontiers in Bioengineering and Biotechnology Histochem Cell Biol Scientific Reports PLoS One Matrix Biol Scientific Reports On Sture Communications of Experimental and Molecular Medicine	2022 FCHP 2022 RCHP 2022 BCHP, BCHPCTL 2022 RCHP 2022 RCHP 2022 RCHP 2022 BCHP 2022 BCHP 2022 BCHP 2022 SCY7.5CHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 BCHP 2021 FCHP 2021 BCHP 2021 FCHP	Muscle Recovery Oxidative Injury, Kidney LAIR-1, Tumor Microenvironment Remodeling Bone Remodeling COVID19 Wound Healing, Inflammation Mammary Tumors Cancer (OvCa) Subretinal Fibrosis, Choroidal Neovascularization OI ECM Remodeling TBI Tendon Overuse IPF Skin Repair, Fibroblasts Achilles Enthesis Joint Pain Ophthalmologic Damage Tendon Healing Tendon Regeneration Cardiac Hypertrophy Bone Graft Cardiac Fibroblasts Cell-Matrix Interactions Sclera Inflammation Decellularized Tissue MI Dementia, Cerebral Vasculature IVD Degeneration Cardiac Repair Skin Flaps
35175105 35189973 35230974 35650319 35893698 36063900 36111352 36188490 ABSTRACT 33154166 34058190 34314889 34393771 NO PMID DISSERTATION THESIS PREPRINT THESIS 98271356 33271356 33271356 33864129 33986436 33999919 34048934 34446744 34480023 34584195	35175105 35189973 35230974 35650319 35893698 36063900 36111352 36188490 ABSTRACT 33154166 34058190 34314889 34393771 NO PMID DISSERTATION THESIS PREPRINT THESIS 33045326 33271356 33582160 33869150 33966129 33986436 3399919 34048934 34446744 34480023 345230974	Optimization of a pericyte therapy to improve muscle recovery after limb immobilization Modeling oxidative injury response in human kidney organoids Remodeling the tumor microenvironment via blockade of LAIR-1 and TGF-β signaling enables PD-L1-mediated tumor eradicated Ablation of the miRNA cluster 24 in cartilage and osteoblasts impairs bone remodeling Matrix Metalloproteinases Expression Is Associated with SARS-CoV-2-Induced Lung Pathology and Extracellular-Matrix Remot Smurf2 Regulates Inflammation and Collagen Processing in Cutaneous Wound Healing through Transforming Growth Factor-Age alters the oncogenic trajectory toward luminal mammary tumors that activate unfolded proteins responses Another Wrinkle with Age: Aged Collagen and Intra-peritoneal Metastasis of Ovarian Cancer Use of collagen-hybridizing peptides to assess active fibrosis in 2 mouse models of choroidal neovascularization. 4-Phenytbutyric acid enhances the mineralization of osteogenesis imperfecta IPSC-derived osteoblasts Post-translational activation of Mmp2 correlates with patterns of active collagen degradation during the development of the zometanical characterisation of the human dura mater, falx cerebri and superior sagittal sinus Tendons exhibit greater resistance to tissue and molecular-level damage with increasing strain rate during cyclic fatigue Adipose Stromal Cell-Secretome Counteracts Profibrotic Signals From IPF Lung Matrices Distinct fibroblast and pericyte lineages in skin development and repair Growth and Mechanobiology of the Achilles Enthesis in Mice Biomechanical & Biochemical Contributions of Matrix Metalloproteinases in Joint Pain: Models, Mechanisms, & Patients Mechanisms and Effects of Femtosecond Laser Micromachining in Ophthalmic Materials and Ocular Tissue Reprogramming adult tendon healing using regenerative neonatal regulatory T cells Role of Regulatory T-Cells in Tendon Regeneration Grape polyphenols and exercise training have distinct molecular effects on cardiac hypertrophy in a model of obese insulin-re- Fabr	Journal of Applied Physiology Stem Cell Research & Therapy it The Journal of Clinical Investigation Scientific Reports di Viruses 3. The American Journal of Pathology Aging Cell Aging Cancer Investigative Ophthalmology & Visual Science J Biol Chem e Dev Biol Acta Biomater Acta Biomaterialia Front Pharmacol King's College London University of Deleware University of Pennsylvania University of Rochester BioRxiv Icahn School of Medicine at Mount Sinai Is Journal of Nutritional Biochemistry Acta Biomaterialia In Journal of Molecular and Cellular Cardiology ' Frontiers in Bioengineering and Biotechnology Histochem Cell Biol Scientific Reports PLoS One Matrix Biol Scientific Reports CExperimental and Molecular Medicine Of Nature Communications CExperimental and Molecular Medicine Of Rittish Journal of Pharmacology Journal of Oleo Science	2022 FCHP 2022 RCHP 2022 BCHP, BCHPCTL 2022 RCHP 2022 RCHP 2022 RCHP 2022 BCHP 2022 BCHP 2022 BCHP 2022 SCY7.5CHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 FCHP 2021 BCHP 2021 FCHP	Muscle Recovery Oxidative Injury, Kidney LAIR-1, Tumor Microenvironment Remodeling Bone Remodeling COVID19 Wound Healing, Inflammation Mammary Tumors Cancer (OvCa) Subretinal Fibrosis, Choroidal Neovascularization OI ECM Remodeling TBI Tendon Overuse IPF Skin Repair, Fibroblasts Achilles Enthesis Joint Pain Ophthalmologic Damage Tendon Healing Tendon Regeneration Cardiac Hypertrophy Bone Graft Cardiac Fibroblasts Cell-Matrix Interactions Sclera Inflammation Decellutarized Tissue MI Dementia, Cerebral Vasculature IVD Degeneration Cardiac Repair

34714551	34714551	T1p imaging as a non-invasive assessment of collagen remodelling and organization in human skeletal muscle after ligament	The Journal of Physiology 2021 F	FCHP	Ligament Injury, Skeletal Muscle
34738460	34738460	Molecular Imaging of Collagen Destruction of the Spine			Spine Spine
34756877	34756877	C1r Upregulates Production of Matrix Metalloproteinase-13 and Promotes Invasion of Cutaneous Squamous Cell Carcinoma			Cutaneous Sqamous Cell Carcinoma
34808238	34808238	Skin Fibrosis and Recovery Is Dependent on Wnt Activation via DPP4	Journal of Investigative Dermatology 2021 B		Skin Fibrosis, Fibrosis Recovery
34826240	34826240	Toughening mechanisms for the attachment of architectured materials: The mechanics of the tendon enthesis	Science Advances 2021 F		Tendon Enthesis
34910928	34910928	Differential pre-malignant programs and microenvironment chart distinct paths to malignancy in human colorectal polyps	Cell 2021 R	RCHP	Colorectal Polyps
34939928	34939928	Role of distinct fibroblast lineages and immune cells in dermal repair following UV radiation induced tissue damage	eLife 2021 B	ВСНР	Dermal Repair
PREPRINT	PREPRINT	Heterogeneous strains in tissue collagen show that high strains locally suppress degradation by collagenase	BioRxiv 2021 B	ВСНР	Tissue Strain, Collagen Degradation
32500704	32500704	Enrichment of Collagen Fragments Using Dimeric Collagen Hybridizing Peptide for Urinary Collagenomics	J Proteome Res 2020 C	Custom	Urinary Collagenomics
31325483	31325483	Tendon tissue microdamage and the limits of intrinsic repair	Matrix Biol 2020 F	FCHP	Tendon Damage
31568155	31568155	Quantitative Liver Fibrosis Using Collagen Hybridizing Peptide to Predict Native Liver Survival in Biliary Atresia: A Pilot Study	J Pediatr Gastroenterol Nutr 2020 F	FCHP	Biliary Atresia
32439570	32439570	Aberrant structure of fibrillar collagen and elevated levels of advanced glycation end products typify delayed fracture healing in	Bone 2020 R	RCHP	AGEs, Fracture Healing
32543401	32543401	Anisotropic properties of articular cartilage in an accelerated in vitro wear test	J Mech Behav Biomed Mater 2020 F	FCHP	Articular Cartilage
32570295	32570295	Effective enzymatic debridement of burn wounds depends on the denaturation status of collagen	Wound Repair Regen 2020 U	Unknown	Burn Wounds
32609496	32609496	Localization of Therapeutic Fab-CHP Conjugates to Sites of Denatured Collagen for the Treatment of Rheumatoid Arthritis	Bioconjug Chem 2020 C	Custom	RA
32923623	32923623	Accumulation of collagen molecular unfolding is the mechanism of cyclic fatigue damage and failure in collagenous tissues	Sci Adv 2020 F	FCHP	Cyclic Fatigue
33035697	33035697	Collagen denaturation is initiated upon tissue yield in both positional and energy-storing tendons	Acta Biomater 2020 F	FCHP	Tendon Overuse
33172983	33172983	Dopamine D1 receptor stimulates cathepsin K-dependent degradation and resorption of collagen I in lung fibroblasts	J Cell Sci 2020 B	BCHP, BCHP CTL	IPF
31775156	31775156	An acute immune response underlies the benefit of cardiac adult stem cell therapy.	Nature 2020 B	BCHP	Cardiac Health, Stem Cell Therapy
31819213	31819213	Successive blood meals enhance virus dissemination within mosquitoes and increase transmission potential	Nature Microbiology 2020 F		Virus Transmission
31961823	31961823	Arp2/3 inactivation causes intervertebral disc and cartilage degeneration with dysregulated TonEBP-mediated osmoadaptation			IVD Degeneration
32432932	32432932	Thermal injury initiates pervasive fibrogenesis in skeletal muscle	American Journal of Physiology: Cell Physiology 2020 F		Fibrogenesis, Skeletal Muscle
32785676	32785676	Loss of Osteopontin Expression Reduces HSV-1-Induced Corneal Opacity	Investigative Ophthalmology & Visual Science 2020 B		Corneal Opacity
32817558	32817558	A specialized population of Periostin-expressing cardiac fibroblasts contributes to postnatal cardiomyocyte maturation and in	,		Cardiac Fibroblasts
32987703	32987703	Spontaneous Right Ventricular Pseudoaneurysms and Increased Arrhythmogenicity in a Mouse Model of Marfan Syndrome	International Journal of Molecular Sciences 2020 F		Cardiac Health, Marfan Syndrome
33097606	33097606	Mitochondrial dysfunction triggers a catabolic response in chondrocytes via ROS-mediated activation of the JNK/AP1 pathway			Mitochondreal Dysfunction
33321592	33321592	A new mechanism for reduced cell adhesion: Adsorption dynamics of collagen on a nanoporous gold surface	Materials Science and Engineering 2020 F		Cell Adhesion
33392460	33392460	Advanced glycation end products cause RAGE-dependent annulus fibrosus collagen disruption and loss identified using in situ	•	BCHP, FCHP	IVD Degeneration
30474872	30474872	Microplate assay for denatured collagen using collagen hybridizing peptides	J Orthop Res 2019 F		CHPs
30840240	30840240	In Situ Detection of Degraded and Denatured Collagen via Triple Helical Hybridization: New Tool in Histopathology	Methods Mol Biol 2019 N		N/A
31307223	31307223	An Anterior Cruciate Ligament Failure Mechanism	Am J Sports Med 2019 R		Ligament Failure
31334527	31334527	Assessing collagen fibrils molecular damage after a single stretch-release cycle	Soft Matter 2019 F		Connective Tissue
31438477	31438477	Developing Regenerative Treatments for Developmental Defects, Injuries, and Diseases Using Extracellular Matrix Collagen-T			Regenerative Medicine
31723936	31723936	Acoustic modification of collagen hydrogels facilitates cellular remodeling	Mater Today Bio 2019 F		Hydrogels, ECM Remodeling
31788555	31788555	Molecular Detection and Assessment of Intervertebral Disc Degeneration via a Collagen Hybridizing Peptide	ACS Biomater Sci Eng 2019 F		Intervertebral Disc Degeneration
31861331 THESIS	31861331	Scar Formation with Decreased Cardiac Function Following Ischemia/Reperfusion Injury in 1 Month Old Swine  The Use of Multiphoton Microscopy to Access Calledon Quality and Advanced Chapting End products in the Interpret	Journal of Cardiovascular Disease and Development 2019 R Clahn School of Medicine at Mount Sinai 2019 F		Repurfusion Injury, Scar Formation
30686120	<u>THESIS</u> <u>30686120</u>	The Use of Multiphoton Microscopy to Assess Collagen Quality and Advanced Glycation End-products in the Intervertebral Dis Protective Effects of Activated Myofibroblasts in the Pressure-Overloaded Myocardium Are Mediated Through Smad-Depender			IVD Degeneration Myofibroblast Protective Effects, Myocardium
30710594	30710594	A window into the brain: Tools to assess pre-clinical efficacy of biomaterials-based therapies on central nervous system disor		CHE	Biomaterials, CNS
30888851	30888851	Preservation of circadian rhythms by the protein folding chaperone, BiP		CF-CHP	Collagen Synthesis & Circadian Rhythms
30995070	30995070	Anterior Cruciate Ligament Tear Promotes Skeletal Muscle Myostatin Expression, Fibrogenic Cell Expansion, and a Decline in			Ligament Tear, ACL
31132662	31132662	Molecular-level collagen damage explains softening and failure of arterial tissues: A quantitative interpretation of CHP data w	·		Arterial Damage
31182124	31182124	The impact of cholesterol deposits on the fibrillar architecture of the Achilles tendon in a rabbit model of hypercholesterolemi			Tendon Health
31393098	31393098	Cell-specific ablation of Hsp47 defines the collagen-producing cells in the injured heart.	JCI Insight 2019 F		Cardiac Injury
31433691	31433691	The impact of skeletal muscle contraction on CD146+Lin- pericytes	American Jounal of Physiology: Cell Physiology 2019 F		Skeletal Muscle Contraction
31443173	31443173	Clumps of Mesenchymal Stem Cell/Extracellular Matrix Complexes Generated with Xeno-Free Conditions Facilitate Bone Reg			Osteogenesis, Bone Regeneration
31763444	31763444	Microfluidic disc-on-a-chip device for mouse intervertebral disc—pitching a next-generation research platform to study disc d			IVD Degeneration
30149231	30149231	Visualizing collagen proteolysis by peptide hybridization: From 3D cell culture to in vivo imaging	Biomaterials 2018 F		CHPs
30557395	30557395	Systematic in vitro comparison of decellularization protocols for blood vessels	PloS One 2018 F		Tissue Decellularization, Blood Vessels
THESIS	THESIS	TRAUMA-INDUCED ALTERATIONS OF CEREBRAL VESSEL MECHANICS AND MICROSTRUCTURE.	University of Utah 2018 F		CNS Vessel Mechanics, TBI
THESIS	THESIS	STRUCTURAL CHANGES IN STRETCHED COLLAGEN FIBRILS AS A FUNCTION OF RELAXATION TIMES.	Nova Scotia University 2018 C	CF-CHP	Collagen Fibril Structure
29225149	29225149	Detection and characterization of molecular-level collagen damage in overstretched cerebral arteries	Acta Biomater 2018 F	FCHP	Arterial Damage
29519673	<u>29519673</u>	Fatigue loading of tendon results in collagen kinking and denaturation but does not change local tissue mechanics	Journal of Biomechanics 2018 F	FCHP	Tendon Fatigue, Collagen Structure, Tissue Mechanics
29535366	29535366	In tendons, differing physiological requirements lead to functionally distinct nanostructures	Scientific Reports 2018 F	FCHP	Tendon Physiology
29631168	29631168	Decellularized materials derived from TSP2-KO mice promote enhanced neovascularization and integration in diabetic wound	Biomaterials 2018 F	FCHP	Diabetic Wounds, Neovascularization
29756312	29756312	Cyclic Peptides for Efficient Detection of Collagen	ChemBiochem: A European Journal of Chemical Biology 2018 C	CMP	Collagen Detection
29844169	29844169	How electrostatic networks modulate specificity and stability of collagen	Proceedings of the National Academy of Sciences of the United States of America 2018 C	CMP	Collagen Stability
29953488	29953488	Loxl2 is dispensable for dermal development, homeostasis and tumour stroma formation	PLoS One 2018 R	RCHP	Dermal Homeostasis, Tumor Stroma Formation
30158243	30158243	Fibroblast state switching orchestrates dermal maturation and wound healing	Molecular System Biology 2018 B		Wound Healing, Fibroblast State
30269950	30269950	Divergent Matrix-Remodeling Strategies Distinguish Developmental from Neoplastic Mammary Epithelial Cell Invasion Progra		CF-CHP	Cancer (Breast Cancer ECM)
30280599	30280599	Skeletal muscle fibrosis is associated with decreased muscle inflammation and weakness in patients with chronic kidney disc			Skeletal Fibrosis
30498097	30498097	Dietary advanced glycation end-product consumption leads to mechanical stiffening of murine intervertebral discs	Dis Model Mech 2018 F		Intervertebral Discs, AGEs
28161576	<u>28161576</u>	Molecular assessment of collagen denaturation in decellularized tissues using a collagen hybridizing peptide	Acta Biomater 2017 C		CHPs
28327610	28327610	Molecular level detection and localization of mechanical damage in collagen enabled by collagen hybridizing peptides		CF-CHP	CHPs
28445649	28445649	High Serum Stability of Collagen Hybridizing Peptides and Their Fluorophore Conjugates		sCy7.5CHP	CHPs
28877431	28877431	In Situ Imaging of Tissue Remodeling with Collagen Hybridizing Peptides	ACS Nano 2017 A		CHPs
29091434	29091434	Self-Assembled Water-Soluble Nanofibers Displaying Collagen Hybridizing Peptides	J Am Chem Soc 2017 C		CHPs
				0140	
28153760 28865990	28153760 28865990	Matrix-metalloproteinases as targets for controlled delivery in cancer: An analysis of upregulation and expression  ECM turnover-stimulated gene delivery through collagen-mimetic peptide-plasmid integration in collagen	Journal of Controled Release 2017 C Acta Biomaterialia 2017 C		MMPs, Cancer Drug Delivery System ECM remodeling

29043304	A single stranded fluorescent peptide probe for targeting collagen in connective tissues	Chemical Communications		Connective Tissue
26773768	Targeting collagen for diagnostic imaging and therapeutic delivery	J Control Release	2016 N/A	CHPs
27403657	Nanoparticle Assembly and Gelatin Binding Mediated by Triple Helical Collagen Mimetic Peptide	ACS Appl Mater Interfaces	2016 N/A	CHPs
26686918	A graphene oxide-based FRET sensor for rapid and specific detection of unfolded collagen fragments.	Biosensors and Bioelectronics	2016 CMPs	Collagen Triple Helix
27981245	Integration of growth factor gene delivery with collagen-triggered wound repair cascades using collagen-mimetic peptides.	Bioengineering and Translational Medicine	2016 CMPs	Wound Repair
32262998	A highly specific graphene platform for sensing collagen triple helix.	Journal of Material Chemistry	2016	Collagen Triple Helix
32263567	Paper-based FRET for the direct detection of collagen triple helix.	Journal of Material Chemistry	2016	Collagen Triple Helix
25476588	Non-covalent photo-patterning of gelatin matrices using caged collagen mimetic peptides	Macromolecular Bioscience	2015 Custom	CHPs
25584990	Collagen-gelatin mixtures as wound model, and substrates for VEGF-mimetic peptide binding and endothelial cell activation	Acta Biomaterialia	2015 Custom	Wound Model
26184049	Uterine perfusion model for analyzing barriers to transport in fibroids	Journal of Controled Release	2015 CMP	Perfusion Model
25941782	Tissue-engineered acellular small diameter long-bypass grafts with neointima-inducing activity	Biomaterials	2015 CMP	Vascular Grafts
24513868	Imaging denatured collagen strands in vivo and ex vivo via photo-triggered hybridization of caged collagen mimetic peptides	JoVE Journal of Visualized Experiments	2014	CHPs
25327307	Conducting polymer nanoparticles decorated with collagen mimetic peptides for collagen targeting	Chemical Communications	2014 Custom	CHPs
25541582	Capillary Network-Like Organization of Endothelial Cells in PEGDA Scaffolds Encoded with Angiogenic Signals via Triple Helica	al Advanced Functional Materials	2014 Custom	CHPs
24633807	Review collagen-based biomaterials for wound healing	Biopolymers	2014	Wound Healing
25115789	Collagen mimetic peptide engineered M13 bacteriophage for collagen targeting and imaging in cancer	Biomaterials	2014 BCHP	Cancer Imaging
32262095	A CMP-based method for tunable, cell-mediated gene delivery from collagen scaffolds.	Journal of Material Chemistry	2014 CMPs	Gene Therapy
23253177	Direct detection of collagenous proteins by fluorescently labeled collagen mimetic peptides	Bioconjugate Chemistry	2013	CHPs
24210894	Targeting and mimicking collagens via triple helical peptide assembly	Current Opinions in Chemical Biology	2013	CHPs
22387389	On-the-resin N-terminal modification of long synthetic peptides	Anal Biochem	2012	CHPs
22927373	Targeting collagen strands by photo-triggered triple-helix hybridization	Proceedings of the National Academy of Sciences of the United States of America	2012	CHPs
23908674	Encoding Cell-Instructive Cues to PEG-Based Hydrogels via Triple Helical Peptide Assembly	Soft Matter	2012	CHPs, Hydrogels
22522497	Peptides that anneal to natural collagen in vitro and ex vivo	Organic & Biomolecular Chemistry	2012	CHPs
20740489	Template-tethered collagen mimetic peptides for studying heterotrimeric triple-helical interactions	Biopolymers	2011	CHPs
26312060	Matrix-Bound VEGF Mimetic Peptides: Design and Endothelial Cell Activation in Collagen Scaffolds	Advanced Functional Materials	2011 Custom	CHPs, Cell Activation
26316880	Collagen Mimetic Peptides: Progress Towards Functional Applications	Soft Matter	2011 Custom	CHPs
20715762	PEG-based hydrogels with collagen mimetic peptide-mediated and tunable physical cross-links	Biomacromolecules	2010	Hydrogels, Crosslinking
18547103	Spatio-temporal modification of collagen scaffolds mediated by triple helical propensity	Biomacromolecules	2008	Collagen Scaffold
18816098	Immobilization of growth factors on collagen scaffolds mediated by polyanionic collagen mimetic peptides and its effect on e	n Biomacromolecules	2008	Collagen Scaffold
18826339	Enhanced chondrogenesis of mesenchymal stem cells in collagen mimetic peptide-mediated microenvironment	Tissue Engineering	2008	ECM Microenvironment
<u>16511895</u>	Nanoparticle-assisted visualization of binding interactions between collagen mimetic peptide and collagen fibers	Angew Chem Int Ed Engl	2006	CHPs
16797067	Collagen mimetic peptide-conjugated photopolymerizable PEG hydrogel	Biomaterials	2006	CHPs
15783169	Facile modification of collagen directed by collagen mimetic peptides	Journal of the American Chemical Society	2005	CHPs
	26773768 27403657 26686918 27981245 32262998 32263567 25476588 25584990 26184049 25941782 24513868 25327307 25541582 24623807 25115789 32262095 23253177 24210894 22327373 23908674 22522497 20740489 26316880 20715762 18547103 18816098 18826339 16511895 16797067	26773768 Targeting collagen for diagnostic imaging and therapeutic delivery 27403657 Nanoparticle Assembly and Gelatin Binding Mediated by Triple Helical Collagen Mimetic Peptide 26686918 A graphene oxide-based FRET sensor for rapid and specific detection of unfolded collagen fragments. 17981245 Integration of growth factor gene delivery with collagen-triggered wound repair cascades using collagen-mimetic peptides. 17981245 A highly specific graphene platform for sensing collagen triple helix. 17981246 Paper-based FRET for the direct detection of collagen triple helix. 17981246 Non-covalent photo-patterning of gelatin matrices using caged collagen mimetic peptides 179812476588 Non-covalent photo-patterning of gelatin matrices using caged collagen mimetic peptide binding and endothelial cell activation 179812476588 Uterine perfusion model for analyzing barriers to transport in fibroids 1798124762 Tissue-engineered acellular small diameter long-bypass grafts with neointima-inducing activity 179812451368 Imaging denatured collagen strands in vivo and ex vivo via photo-triggered hybridization of caged collagen mimetic peptides 1798124633807 Conducting polymer nanoparticles decorated with collagen mimetic peptides for collagen targeting 1798124633807 Review collagen-based biomaterials for wound healing 1798124633807 Review collagen-based biomaterials for wound healing 1798124633807 Direct detection of collagenous proteins by fluorescently labeled collagen mimetic peptides 179812463177 Direct detection of collagenous proteins by fluorescently labeled collagen mimetic peptides 179812461894 Targeting and mimicking collagens via triple helical peptide assembly 179812461894 Targeting and mimicking collagens via triple helical peptide assembly 179812461984 Targeting collagen strands by photo-triggered triple-helix hybridization 17981246189 Autrix-Bound VEGF Mimetic Peptides: Design and Endothelial Cell Activation in Collagen Scaffolds 179812497 Peptides that anneal to natural collagen in vitro and ex vivo 17991240481 Targ	Sargeting collagen for diagnostic imaging and therapeutic delivery   John Callagen   John Ca	Page-1988   Tage-ling collaper for diagnostic imaging and therapeutic cellurery   2018 NA   20