Current CDMRP Webpage on Research Highlights

Alcohol and Substance Use Disorders:

- PASA Awards Five Alcohol and Substance Use Disorders Research Projects
- PASA Awards Four Alcohol and Substance Use Disorders Research Projects
- N-acetylcysteine Treatment of Alcohol Use Disorder in Veterans with Traumatic Brain Injury

Alzheimer's:

- Unraveling Links Between Cholesterol Markers and Cognitive Decline in Alzheimer's Disease
- Sound wave technologies: Transforming the future of clinical biofluidic diagnosis
- Neural Imaging and Machine Learning Approaches to Estimate Brain Age and Post-TBI Decline
- Human-Specific Circular RNAs as Key Players to Tauopathy?
- Telehealth-Based Mind-Body Interventions to Improve Cognition and Quality of Life in Individuals with MCI and Their Caregivers
- Detecting and Diagnosing Different Strains of Neurodegenerative Disease
- Improving Quality of Life Through Training to Reduce Care-Resistant Behaviors
- Understanding Long-Term TBI Consequences Using Artificial Intelligence
- Alzheimer's Effect on Financial Outcomes in the Period Prior to Clinical Diagnosis
- The Glymphatic System: A Novel Discovery for TBI and Dementia
- Collaborating on Military Risk Factors for Alzheimer's and Other Dementias

Amyotrophic Lateral Sclerosis:

- Using Machine Learning for Drug Repurposing to Impact ALS Treatment
- The Therapeutic Potential of Metformin in ALS: Moving Through the ALSRP Pipeline from Therapeutic Development Award (TDA) to Pilot Clinical Trial Award (PCTA)
- Amyotrophic Lateral Sclerosis Research Program Recognized for Including Consumer Reviewers in Two-Tier Review System
- New Nerve-on-a-Chip® System Could Revolutionize Therapeutic Development for ALS
- A Combined Cell and Gene Therapy Approach for Preserving Motor Neuron Function in ALS
- UPDATE: ALS Treatment, Tegoprubart, Advancing Through Clinical Trials
- A New Compound to Prevent Motor Neuron Toxicity in ALS Enters Clinical Trial
- In Vivo Imaging and Novel Therapeutic Approaches in ALS
- A Challenge Best Tackled Together - Bridging the ALS Therapeutic Gap with Industry Partners
- Novel Metabolic Mechanism Implicated in an Early-Onset Form of Amyotrophic Lateral Sclerosis
- Novel ALS therapeutic intervention shows promise in preclinical trials
- ALS “Disease in a Dish” Creates Opportunities for Advanced Motor Neuron and Therapeutic Drug Screening
- Amyotrophic Lateral Sclerosis (ALS) Treatment, AT-1501, Enters Clinical Trial
- Treatment Spotlight: Q&A with ALSRP Investigator Dr. Sytske Moolenaar
- Targeting miR-155 in Peripheral Monocytes for the Treatment of ALS
- The Petrucelli group creates mice that model the most common cause of ALS and FTD
- Development of Copper ATSM as a Therapeutic for SOD-Familial and Sporadic ALS

Autism:

- CDMRP Funds Innovative Research to Support the Autism Community
- A Novel Provider-Focused Training Program to Serve Transition-Age Youth and Adults with Autism Spectrum Disorder
- A Multidisciplinary Intervention for Encopresis in Children With ASD
- The Influence of Social, Educational, and Work Experiences on Psychological Health for Transition-Aged Youth with Autism Spectrum Disorders
- School-Based Intervention Programs for Children with ASD
- Autism Associated Mutations Impact on Ca2+ Channels and Behavior
- Flame Retardant Exposure During Early Development and Autism Spectrum Disorder
- Using Propranolol to Treat the Core Symptoms of Autism Spectrum Disorder
- Prenatal Polyunsaturated Fatty Acid Levels and Risk of Autism Spectrum Disorders
- A Clinical Trial of a Commercially Available Intervention in Pediatric Patients with Autism Spectrum Disorder and Moderate Language Delays
- The Development of Novel Drugs to Treat the Core Symptoms of ASD
- Evidence-Based Social-Emotional Therapy Using Augmented and Virtual Reality on Google Glass to Improve Employability and Job Skills in Adults with Autism
- Facilitating the Transition to Employment for Young Adult Military Dependents with Autism Spectrum Disorder
- Cognitive Enhancement Therapy: A Promising Approach for Adults with Autism Spectrum Disorder
- Understanding the Consequences of Aging in Autism Spectrum Disorder
- Maternal Brain-Reactive Antibodies and Autism Spectrum Disorder
- Altered Placental Tryptophan Metabolism: A Crucial Molecular Pathway for the Fetal Programming of Neurodevelopmental Disorders
- Risk Factors, Comorbid Conditions, and Epidemiology of Children with Autism in Military Families

Bone Marrow Failure:

- Novel RNA-Based Aptamer Strategy to Correct Irregular DNA Methylation and Restore Vital Gene Functions in Myelodysplastic Syndromes
- The Role of Nemo-Like Kinase in the Pathogenesis and Treatment of Diamond-Blackfan Anemia
- Therapeutic Targeting of Spliceosomal-Mutant Acquired Bone Marrow Failure Disorders
- Replicating the Patient-Specific Bone Marrow Failure Disease in Order to Identify Therapeutic Response
- A Method for Rescuing Hematopoietic Stem Cell Functions in Fanconi Anemia
- A Novel Therapy for Targeting Acquired Bone Marrow Failure Diseases
- The Role of U2AF1 Mutations in the Pathogenesis of Myelodysplastic Syndromes
- Signaling Pathways in the Pathogenesis of Diamond Blackfan Anemia
- Translational Control in Bone Marrow Failure

Breast Cancer:

- Kara Kenan - Cancer does not Happen in a Void
- CDMRP-FUNDED RESEARCH AIMS TO EFFICIENTLY DETECT BREAST CANCER
- Identification of Actionable Networks Promoting Breast Cancer Progression and Brain Metastasis
- Inhibition of Myeloid-Derived Suppressor Cell Biogenesis to Improve the Efficacy of Immune Checkpoint Inhibitors in Triple-Negative Breast Cancer
- Epigenetic Factor CECR2 as a Potential Target in Breast Cancer Metastasis
- The CDMRP Remembers Dr. Susan Love
- Dual-Loading Antibody-Drug Conjugates for Combating Breast Cancer Tumor Heterogeneity and Drug Resistance
- Functional Mechanism and Targeting of Metadherin in Breast Cancer
- Targeting GM-CSF to Inhibit Development of Leptomeningeal Disease from Breast Cancer
- A Novel Tubulin Inhibitor to Overcome Taxane Resistance in Metastatic Breast Cancer
- Tumor-Specific Fluorescence-Guided Surgery for Breast Cancer
- Overcoming HER2-Based Therapy Resistance in Breast Cancer Brain Metastases through CDK4/6 Inhibition
- Predicting Paclitaxel Sensitivity in Breast Cancer Patients
- Targeting Drug Resistance in Triple-Negative Breast Cancer
- Investigating Estrogen Receptor Mutations in Breast Cancer to Guide New Therapeutic Strategies
- Targeting Prolyl Peptidases in Triple-Negative Breast Cancer
- Identifying a Gene Panel to Predict Risk of Recurrence in Patients with Basal-Like Breast Cancer
- Targeting Senescence May Prevent Chemotherapy-Induced Bone Loss in Breast Cancer Patients
- Stromal Lysyl Hydroxylase 2, a Novel Biomarker for Breast Cancer Patient Prognosis
- Cluster of Differentiation 73 (CD73) Blockade Promotes Dendritic Cell Infiltration of Primary Tumors and Activation of Antitumor Immune Responses
- Mitochondria-Targeted Copper-Depleting Nanoparticle Inhibits Triple-Negative Breast Cancer Progression in Mice
- Metabolomic Targeting of Heterogeneous Breast Cancer for Personalized Therapy Development
- Ruxolitinib for the Prevention of Breast Cancer
- Fasting-Mimicking Diet Induces Breast Cancer Regression Through Enhanced Effectiveness of Hormone Therapy
- Characterization of Clustered Circulating Tumor Cells to Eliminate Breast Cancer Metastasis
- New Diagnostic and Therapeutic Approaches to Eradicating Recurrent Breast Cancer
- De-Escalating Treatment in HER2+ Breast Cancer: Establishing Effective and Less Toxic Therapy Based on Predictive Biomarkers
- Podcast Discusses the DoD Breast Cancer Research Program and Metastatic Breast Cancer Research
- Lab-on-Chip (LOC) Platform for Assessment of Extracellular Matrix (ECM) Stiffness
- Targeting miR551b to Prevent Tumor Formation and Metastasis of Triple-Negative Breast Cancer (TNBC)
- Death Effector Domain-Containing Protein (DEDD) Vulnerability to Cell Cycle Inhibition in Triple-Negative Breast Cancer (TNBC)
- Enhancing the Cytotoxicity of T-DM1 to Treat HER2+ Breast Cancer

- Connecting Blood and Intratumoral Treg Cell Activity in Predicting Future Relapse in Breast Cancer
- Era of Hope Scholars - Making Breakthroughs in Preventing Metastasis
- 2019 BCRP Landscape Video
- Blocking CXCR4 Reduces Tumor Fibrosis and Sensitizes Metastatic Breast Cancer to Immunotherapy
- Neutrophil Extracellular Traps Produced During Inflammation Awaken Dormant Cancer Cells
- Reprogramming the Pro-Tumorigenic Immune Microenvironment to Anti-Tumorigenic in Breast Cancer
- RANKL/RANK Control BRCA1 Mutation-Driven Mammary Tumors
- Therapeutic Antibody Targeting Tumor- and Osteoblastic Niche-Derived Jagged1 Sensitizes Bone Metastasis to Chemotherapy
- The Link Between Chromosomal Instability and Metastatic Progression in Triple-Negative Breast Cancer
- Imaging Agent, Flurodeoxyglucose (^{18}F-FDG), Transforms Chemotherapeutics into Phototherapy for Precise Treatment of Metastatic Breast Cancer
- Atf3 in Non-Cancer Host Cells is Linked to Chemotherapy-Enhanced Metastasis in Breast Cancer
- Her2 and TrkB as Dual Therapy Targets for Her2+ Breast Cancer Brain Metastases
- Targeting the Cytoskeletal Physics of Circulating Breast Tumor Cells to Reduce Metastasis
- Uncovering a New Pathway to Target and Treat Breast Cancer Metastasis
- The Multifunctional Transcription Factor, TRIM25, Drives Breast Cancer Metastasis
- RON kinase: A Target for Treatment of Cancer-Induced Bone Destruction and Osteoporosis
- CDK4/6 Inhibition Triggers Antitumor Immunity
- The Flare Behind Tumor Imaging to Rapidly Measure Breast Cancer Response to Therapy
- Microenvironments and Signaling Pathways Regulating Early Dissemination, Dormancy, and Metastasis
- Detection of HER2-Positive Metastases in Patients with HER2-Negative Primary Breast Cancer
- Breast Cancer Geneticist Awarded 2017 Breakthrough Prize
- Prediction of Metastasis Using Second Harmonic Generation

Combat Readiness-Medical:

- CDMRP-Funded Research Developed a Portable Exposure Biomarker Device for Lead and Other Heavy Metal Exposures
- Revolutionary Antiviral Nasal Drug to Combat Respiratory Illnesses
- A Nanotechnology-Enabled Biosynthetic Whole-Blood Surrogate for Hemostatic Resuscitation
- On-Demand Warming of Blood Products Using Non-Electric Fluid Warmers

Chronic Pain Management:

- CDMRP FUNDED RESEARCH ON FUNCTIONAL RESTORATION PROGRAMS FOR CHRONIC PAIN

Defense Medical Research and Development:

- A Lightweight Powered Prosthetic Limb for Individuals with Above-Knee Amputations
- Prolonged Exposure Therapy for PTSD: 60-Minute Sessions as Effective as 90-Minute Sessions
- Creating Clinical Solutions from Basic Research: A CDMRP Bone Story
- THE PAP SMEAR CHALLENGE: COMPARING CLINICAL PERFORMANCE OF A NOVEL "MOLECULAR PAP" BASED ON NEXT-GENERATION SEQUENCING TO TRADITIONAL CERVICAL CANCER SCREENING
- Remote Anger and Stress Management (M-SAT)
- Adapting SmartPhones for Ocular Diagnosis
- Closed Loop Total Intravenous Anesthesia (TIVA): The Battlefield Anesthetic of the Future
- Understanding the Protective Effects of Cellular Prion Protein (PrP^C) and Cell Death Protease Inhibition for Treating TBI
- Military Suicide Research Consortium: Recent Accomplishments from Cutting-Edge Studies
- Smart Oxygen Monitors to Diagnose and Treat Cardiopulmonary Injuries
- Identification and Validation of Novel Therapeutic Targets for Traumatic Brain Injury
- Army Medicine Opens the Door for Vision Prosthetic Prototypes
- Novel Detection of Traumatic Brain Injuries
- Characterization of a Model of Blast-induced Mild Traumatic Brain Injury
- **Military Infectious Diseases Research Program (JPC-2)**
    - Novel Antimicrobial Peptides as Topical Anti-Infectives Against Combat-Related Bacterial and Fungal Wound Infections
    - A Novel, Broad Spectrum Anti-Infective that Provides Novel Regenerative Properties in Skin
    - Development of Novel Kinocidin-Based Anti-Infective Therapeutics
    - Preclinical Development of an Antimicrobial Nanoemulsion to Investigational New Drug for Multidrug-Resistant Wound Infections
    - Fighting the Insect War: Containing Vector-Borne Disease and Strengthening Our Military Overseas
    - Rapid Diagnostics for Multidrug Resistant Organisms in Combat-Related Infection
    - Development of a Novel, Antimicrobial Skin Substitute for Burn Patients
    - Fighting Bacteria with Bacteria: Controlling Wound Infections with Predatory Bacteria
    - Next Generation Antimicrobial Wound Dressings to Reduce Infection and Promote Wound Healing
- **Military Operational Medicine Research Program (JPC-5)**
    - Treatment of Comorbid Sleep Disorders and PTSD
    - A Lightweight Powered Prosthetic Limb for Individuals with Above-Knee Amputations
    - Novel Stem Cell Model Reveals How Neurons Respond to Stress in PTSD
    - Prolonged Exposure Therapy for PTSD: 60-Minute Sessions as Effective as 90-Minute Sessions
    - A Deployable Extended-Wear Hearing Aid for Battlefield Military Operations
    - Healing from Traumatic Events by Targeting Feelings of Guilt
    - Blue Light Therapy: A Promising Supplemental Approach to Lessen PTSD Symptom Severity
    - Written Exposure Therapy: An Efficient and Effective Treatment for PTSD
    - PHQ and SCS Working Together to Improve Suicide Risk Detection

- Wingman-Connect Program: An Impactful Collaboration between Academia and the Air Force
- ADAPT and Marriage Checkup Together are Strengthening Military Families
- Lethal Means Counseling and Distribution of Cable Locks Increase Safe Firearm Storage among Military Personnel
- Evaluating Sex Differences as a Predictor of Risk for Opioid Use Disorder
- Decreasing Aggression in Veterans with PTSD
- Using Virtual Reality as a Training Tool to Enhance the Proficiency of Behavioral Health Providers
- Targeted Strategies to Accelerate Evidence-Based Psychotherapies Implementation in Military Settings
- Finding Love Again After PTSD: Intensive Group Couple Therapy for PTSD
- Identifying Biomarkers that Distinguish Post-Traumatic Stress Disorder and Mild Traumatic Brain Injury Using Advanced Magnetic Resonance Spectroscopy
- Advances in Understanding Suicidal Ideation and Behavior
- What's in Your Uniform? An Investigation of Permethrin-Treated Army Combat Clothing
- Effectiveness and Patient Acceptability of Stellate Ganglion Block for Treatment of Posttraumatic Stress Disorder Symptoms among Active Duty Military Members
- Designing Predictive Models for Musculoskeletal Injury and Injury Reoccurrence After Returning to Full Duty Following an Injury
- Repetitive Transcranial Magnetic Stimulation (rTMS) Combined with Cognitive Processing Therapy (CPT) Shows Promise for Reducing Symptoms of Combat-Related PTSD in Veterans
- Researchers Develop Operationally Specific Auditory Tests to Assess Fit-for-Duty Hearing Performance in Service Members
- Military Suicide Research Consortium Hosts Dissemination Science Institute to Address the Need for Effective Health Communication Strategies
- 2018 San Antonio Combat PTSD Conference Draws Record Attendance, Delivers a Powerful Program
- Open house event celebrates the partnership between STRONG STAR and CRDAMC, a key collaboration in furthering the treatment of PTSD
- Toward a Gold Standard for Suicide Risk Assessment for Military Personnel
- Texting: A Brief Intervention to Prevent Suicidal Ideation and Behavior
- Development and Evaluation of Veteran Supportive Supervisor Training (VSST): Improving Transition for Veterans in the Workplace
- Improvement and Extension of Auditory Hazard Models

- **Combat Casualty Care Research Program (JPC-6)**
  - Human Neural Stem Cells, a New Approach to Restorative Therapy for Severe Traumatic Brain Injury
  - Optimized Liposomal Dexamethasone Therapy Improves Functional Outcome of Post-Traumatic Skeletal Muscle and Neuromuscular Junction
  - CN-105, a Prophylactic Neuroprotectant Against Traumatic Brain Injury
  - Novel Prosurvival Strategies Enhance Prolonged Field Care

Duchenne Muscular Dystrophy

- Toward a Safer and Better Gene Therapy for Duchenne Muscular Dystrophy
- New Potential Antibody Treatment for Duchenne Muscular Dystrophy
- Steps Forward in Treating Duchenne Muscular Dystrophy with Gene Repair Therapy
- AAV Vectors, A Step Toward Duchenne Muscular Dystrophy Clinical Trials
- Preclinical Testing of a Novel Method to Block TGFbeta Family Proteins in DMD

Epilepsy

- TGF-beta Signaling in Post-Traumatic Epileptogenesis: Novel Mechanisms and Therapeutic Target
- Re-Imagining Epilepsy Treatments - A Cocktail of Novel Small Molecules Shows Promise for Blocking Post-Traumatic Epilepsy
- Large Animal Models of TBI May Reveal the Mechanisms Behind Post-Traumatic Epilepsy
- The Epidemiology of Epilepsy and Traumatic Brain Injury: Severity, Mechanism, and Outcomes
- Hope for Repurposing an Anti-Diabetic Drug as a Potential Therapy in Pediatric TBI
- Dr. Karen Parko - Resolving the Connection Between TBIs and Epilepsy

Gulf War Illness:

- Gulf War Veterans' Perspectives Brought to Light in Educational Materials
- Boston University Tackles Gulf War Illness Through Collaboration and Community Resources
- Life Sciences Special Issue Focuses on Gulf War Illness Research
- The Unwavering Mission of the GWIRP Thirty Years after the Persian Gulf War
- Misconceptions about GWI and the Impact of Provider Attitudes: Assessing and Addressing Problems
- CNS autoantibodies lead to a differential diagnostic test for Gulf War Illness
- Joint VA/DoD Gulf War Illness State of the Science Conference Draws Hundreds of Researchers and Veterans
- Gulf War Illness State of the Science Conference
- GWIRP-funded project expands exciting gut biome finding for Gulf War Illness
- Seeking Solutions: Veteran Learns about Gulf War Illness — TV series brings resources into view
- A Prospective Open-Label Clinical Trial of Methylphenidate plus a GWI-Specific Nutrient Formula in Patients with Gulf War Illness and Concentration Disturbances
- GWI Common Data Elements Initiative
- The Gulf War Illness Clinical Trials and Interventions Consortium and the Boston Biorepository, Recruitment, and Integrative Network for GWI
- Alabama initiative for Veteran-based research

Hearing Restoration:

- Restoring Hearing Loss with Drug-Like Cocktails – A Preliminary Investigation
- HRRP Hosts Inaugural Meeting of Hearing Research Funders Network

- HRRP-funded investigators develop miniature imaging probe to visualize cellular pathology in the inner ear
- Addressing Both Immediate Needs and Long-Term Consequences
- Addressing Research Gaps for Our Veterans
- Confronting the Challenges of Hearing Loss: A Veteran's Perspective
- Advancing Effective Hearing Restoration Therapies

Joint Warfighter Medical:

- Revolutionizing Oxygen Therapy for Trauma Patients, the SAVE-O2 Trial is a Leap Forward in Healthcare
- Sweaty Issues: Seeking to Reduce Residual Limb Perspiration to Improve the Quality of Life of Amputees
- NuCress™ Bone Scaffolding Solution for Healing Bone Trauma on the Battlefield and Beyond
- Creating Clinical Solutions from Basic Research: A CDMRP Bone Story
- Enhancing Healthcare Through Interoperability
- A New Product for the Treatment of Post-Traumatic Osteoarthritis
- Development of BIO 301 to Prevent Acute Radiation Syndrome and Mitigate the Delayed Effects of Acute Radiation Exposure

Kidney Cancer:

- Advancing Therapeutics, Diagnostics, and Biomarker Discovery Video
- Exploration of Iron Dependent Cell Death (Ferroptosis): A Novel Treatment Option for Patients with Clear Cell Kidney Cancer
- A Novel Mechanism of Pathogenesis for Renal Medullary Carcinoma
- The Academy of Kidney Cancer Investigators - Getting to Know Class 1 and 2
- Therapeutic Targeting of HHLA2/KIR3DL3 Axis as a Novel Immune Checkpoint Pathway in Renal Cancer
- Stromal β-catenin Activation Contributes to Abnormal Kidney Formation in Mice that Mimics Human Wilms Tumor
- Metabolic Reprogramming of Clear Cell Renal Cell Carcinoma Mediated by Tobacco Smoke
- Profilin 1 Promotes Aggressiveness of ccRCC and Provides a Potential New Therapeutic Target
- Harnessing Predictive Markers of Response to Antiangiogenic Therapy: Two Approaches to Optimizing Treatment for Metastatic Renal Carcinoma

Lung Cancer:

- THE CDMRP FUNDS RESEARCH TO ENHANCE TREATMENT AND UNDERSTANDING OF BRAIN METASTASES IN LUNG CANCER
- CAR T-cell Therapy for Lung Cancer – Incorporation of Self-Amplification and Safety Mechanisms
- Innovative Drug Combinations to Improve Immunotherapy for the Treatment of Non-Small Cell Lung Cancer

- Uncovering the Molecular Drivers of Tuft Cells Provides Insight into Potential Vulnerability in a Variant of Small Cell Lung Cancer
- A New Generation of Researchers: The Lung Cancer Research Program Supports the Development of Early-Career Investigators
- The Lung Cancer Research Program Supports Six Early-Career Investigators with Fiscal Year 2020 (FY20) Awards
- Rationalizing New Therapeutic Options for Small Cell Lung Cancer Patients Through a Deeper Understanding of Disease Heterogeneity
- Exploring Modulators of TKI Therapy to Inform Better Patient Treatment for Lung Cancer
- Peripheral Blood T-Cell Dynamic Biomarkers to Identify Responders and Non-Responders in Immune Checkpoint-Based Therapy for Lung Cancer
- LCRP Awardee Receives 2021 Wachtel Cancer Research Award
- Investigating Dysbiosis of the Lung as a Biomarker for Early Lung Cancer Detection
- The Generation of Pulmonary Neuroendocrine Cells and SCLC-like Tumors from Human Embryonic Stem Cells
- Lung Cancer Research Program's Career Development Award Expands the Talent Pool in the Field of Lung Cancer
- Targeted Inhibition of Mutant *KRAS* Oncogene Signaling by RAS Mimetics as a Therapeutic Approach for Lung Cancer
- Predicting Response to Immune Checkpoint Inhibition in Non-Small Cell Lung Cancer
- MEK Inhibition Modulates TNFα Response in Lung Cancer to Enhance Therapeutic Activity
- Investigating the Role of the Lung Microbiome in Non-Small Cell Lung Cancer Tumor Initiation and Progression
- Advancing Multi-Modal Therapy for Inoperable Early Stage Lung Cancer Patients
- Is It Really Cancer? Developing a CT-Based Classifier for Indeterminate Nodules Detected by Lung Cancer Screening
- A New NSAID Shows Promise for the Prevention of Lung Cancer
- Competing for RAS - Understanding KRAS and the Effects of Its Interactions for Potential Lung Adenocarcinoma Treatment
- Antidiabetic Drugs Are a Potential Solution to Some Treatment-Resistant Tumors
- Cancer Interception: Inducing Metabolic Crisis as a Form of Treatment during Lung Carcinogenesis
- The Search for a Biomarker Reveals Mechanisms of Treatment Resistance and New Approaches to Restore Effectiveness for Targeted Therapies
- Detecting Lung Cancer in the Blood Stream: A Successful Validation of a Highly Sensitive Blood-Based Biomarker for Lung Cancer
- The Cancer Moonshot Program: APOLLO and LCRP's Lung Cancer Biospecimen Resource Network
- The Role of the Epithelial-to-Mesenchymal Transition in Cancer Metastasis and Chemotherapy Resistance
- Fostering Collaboration Leads to Early Detection Breakthroughs in Lung Cancer
- Genetic Implications and Novel Targets for the Treatment of Non-Small Cell Lung Cancer
- Genetic Determinants of Lung Cancer Subtype: Adenocarcinoma to Small Cell Conversion

- Identification of a New Biomarker for Lung Cancer Tumor Aggression Points to Promising New Therapies
- Functional Assessment of Patient-Derived Models of Acquired Drug Resistance Identifies a New Drug Combination for EGFR Mutant Lung Cancer

Lupus

- Aim2 Couples with Ube2i for Repression of Interferon Signatures in Systemic Lupus Erythematosus
- Effects of *ITGAM* Genetic Variation on Mac-1-Mediated Functions of B-Cells
- Multi-Ancestral Genomic Approach to SLE-Precision Medicine
- The LRP Presents the Fiscal Year 2021 Transformative Vision Award Recipient
- The LRP Presents the Fiscal Year 2021 Impact Award Recipients
- The LRP Presents the Fiscal Year 2021 Idea Award Recipients
- An Individualized Approach to Cutaneous Lupus Erythematosus Response Therapy
- Developing Antigen-Specific Therapies for Systemic Lupus Erythematosus
- Clarifying Mechanisms of Treg Function as a Basis for SLE Therapy
- Correlation of Atmospheric Fine Particulate Pollution with Lupus Flare Activity
- Targeting IRF5 Hyperactivation in Lupus as a Driver of Disease Risk and Pathogenesis
- Therapeutic Targeting of Senescent Cells in Lupus
- Systemic Lupus: Improving the Rationale for Treatment Choices in a Heterogeneous Disease
- Utility of a Functioning Report for Lupus Patients and Their Providers

Melanoma:

- The Melanoma Research Program Funds Second Cohort for the Melanoma Academy
- Beyond Sunscreen: Redefining Melanoma Prevention
- Introducing the Melanoma Academy
- The Melanoma Research Program's Renewed Focus on Rare Melanomas and a New Funding Opportunity
- Oncoprotein "RLIP" as a Novel Therapeutic Target for Melanoma Prevention and Treatment
- Fiscal Year 2021 Melanoma Research Program Academy: An Opportunity for Leadership
- Breaking the Habit: Melanoma Cells Dependence on BRAF+MEK Inhibitors
- Improving Therapy for Melanoma Brain Metastases
- Identification of the HDAC Inhibitor Quisinostat as a Possible Therapeutic for Uveal Melanoma
- Exploring Novel Ideas in Melanoma Research
- FY20 Melanoma Research Program: Filling the Gaps in Research for a Better Future
- Siah2: A Potential Biomarker to Predict Immunotherapy Treatment Outcomes in Melanoma Patients
- Role of the Inhibitory Receptor TIGIT in the Regulation of CD4+ Tregs in Patients with Advanced Melanoma
- Metabolic Remodeling of the Tumor Microenvironment to Improve the Efficacy of Immunotherapy
- Targeting Increased Polyamine Transport of Resistant Melanomas

- Central Tolerance Blockade to Augment Checkpoint Immunotherapy in Melanoma

Military Burn:

- Portable Nanoparticle Anesthetic Dressing for Burn Wounds
- Vitamin C: An Inexpensive and Readily Available Potential Treatment for Severe Burn Patients
- Novel Peptide Drugs to Improve Burn Care Outcomes
- Enzymatic Debridement for Prolonged Field Care of Military Burn Wounds
- Pirfenidone-Containing Burn Wound Patch to Reduce Scarring
- Revised Goniometry for Improved Diagnosis and Physical Therapy for Burn Patients
- Omega-3 Fish Skin for Burn Wound Coverage and Advanced Healing
- COL Kevin Chung, MD, FCCM, FACP - Charting a Course Toward Resuscitation and Recovery
- Modulation of Burn Scars Through Laser Assisted Delivery of Stem Cells
- Improving the Prognosis of Soldiers with Acute Respiratory Distress Syndrome
- Clinical Therapeutic Applications of Epinephrine and Vitamin-E Supplements to Treat Burn Patients

Multiple Sclerosis:

- CDMRP Funds Research to Support Service Members and Veterans with Multiple Sclerosis
- Glucagon-Like Peptide-1 Receptor Agonist as New Therapeutics for Multiple Sclerosis
- Bioengineered Particles to Promote Regulatory T Cells and Modulate the Immune System in Transplantation and Multiple Sclerosis
- Fitness Trackers and Smartphones Used to Predict Behavior Changes in People with Multiple Sclerosis During the COVID-19 Stay-at-Home Mandate
- Physical Telerehabilitation Program for Multiple Sclerosis Patients Improves Patients' Quality of Life
- Reduced Disease Severity Following Novel Angiotensin 1-7 Treatment in MS Mouse Model
- Imaging Measures Reflect Cognitive Changes Over Time in Multiple Sclerosis Patients
- Exercise Training, Metabolic Changes, and Symptoms in People with MS
- Exploring Remyelination in MS: Myelin, Metformin, and Mitochondria
- Acceleration of Oligodendrocyte Maturation and Functional Remyelination in an MS Model Following Flavonoid Treatment
- The Role of Protein Deimination in Restoring Visual Function in MS Patients
- Differential Association of Age and Serum Neurofilament Light Chain in MS Patients
- Online Toolkit to Assist with Self-Management of MS Symptoms
- Tap Your Feet to Track Progressive Multiple Sclerosis
- Mitochondrial Dysfunction and Disease Progression in MS
- Sensory-Motor and Cognitive-Motor Dysfunction in Multiple Sclerosis: A Mobile Brain-Body Imaging Investigation
- Using Reprogrammed Stem Cells as a Therapy for MS
- Link Between Alterations in the Gut Microbiota and Multiple Sclerosis
- Developing a Promising New Target in the Treatment of Multiple Sclerosis
- Using Advanced MRI Tools to Develop Novel Assessments of Cognition in MS Patients

- In Vivo Imaging of Cortical Inflammation and Subpial Pathology in Multiple Sclerosis by Combined PET and MRI

Neurofibromatosis:

- New Investigator Award Recipients Bring New Ideas to the Neurofibromatosis Research Program for Fiscal Year 2022
- Sleep Disorders Among Children with Neurofibromatosis Type 1 (NF1)
- Improving Hearing in NF2 Patients Who Use the Auditory Brainstem Implant (ABI)
- Development of Therapeutic Strategies for NF1-Associated Optic Pathway Glioma
- NFRP Supports Multi-Institutional Synergistic Idea Award to Investigate Inflammation During NF-Related Optic Tumor Formation
- NFRP Funds First Research OTA to Support Neurofibromatosis Clinical Trials
- Neurofibromatosis Research Program (NFRP) Research Resources
- Genetic Risk Factors of Schwannoma Tumors
- Pharmacological Alk Inhibition Impacts Behavior and Cognition in Adult NF1 Mutant Mice
- Nf1 Mutation Drives Neuronal-Activity-Dependent Initiation of Optic Glioma
- New Investigator Award Recipients Bring New Ideas to the Neurofibromatosis Research Program for Fiscal Year 2020
- Cabozantinib for Neurofibromatosis Type 1-Related Plexiform Neurofibromas: A Phase 2 Trial
- Everolimus Therapy for NF1-Optic Gliomas in Children: A Clinical Trial
- The Pain of Neurofibromatosis
- The NFRP Supports the Future of NF Research with Several New Investigator Awards
- The NFRP Joins Efforts to Promote Open Science in NF Research
- Clinical Trials Address Quality of Life for Persons with Neurofibromatosis (NF1, NF2, and Schwannomatosis) with Resiliency Training Delivered via Live Video
- Study Finds That Bevacizumab Treatment for NF2-Related Vestibular Schwannomas Increases Reported Quality of Life in Adults and Children
- The NFRP Presents the Fiscal Year 2018 Early Investigator Research Award Recipients
- The NFRP Presents the Fiscal Year 2018 New Investigator Award Recipients
- Investigating the Role of Fibroblasts in the Tumor Microenvironment and Hippo Signaling Pathway in Neurofibromas
- Cerebellopontine Angle (CPA) Model: A Novel Tool for Investigating Immunotherapy in Neurofibromatosis Type 2 Vestibular Schwannomas
- Gaining Momentum Through Innovation and Recruitment
- Fiscal Year 2017 New Investigator Award Recipients
- Bench to Bedside - Collaborating to Develop Effective Therapies for NF
- Pathophysiology and Treatment of Muscle Weakness in NF1
- Identification of Molecular and Cellular Contributions to Neurofibroma Formation and Growth
- Fiscal Year 2016 New Investigator Award Recipients
- Potential Therapeutics for Neurofibromatosis Type 2-Associated Schwannoma Tumors
- Confronting the Challenge of Neurofibromatosis
- Identification of Novel Therapeutic Targets for NF1 Optic Pathway Glioma by Examining the Tumor as an Ecosystem

- Decreasing the Clinical Impact of Neurofibromatosis - New Clinical Trials Funded Through the Neurofibromatosis Research Program
- Deletion of Anaplastic Lymphoma Kinase improves cognitive impairments in a mouse model of Neurofibromatosis Type 1
- Study Finds that Lovastatin is Not Effective for Treating Learning or Attention Impairments in Children with NF1
- Opioid Receptor Signaling Crosstalk to Ras Protein is Mediated by Neurofibromin 1
- FY15 New Investigator Award Recipients
- Finding New Targets for Treatment of NF2-Deficient Meningiomas
- Combined mTORC1 and MEK Inhibition Leads to Regression of NF1-Mutant Cancers

Neurotoxin Exposure Treatment Parkinson's:

- The NETP Presents the Fiscal Year 2020 Early-Investigator Research Award Recipients
- Investigating the Gene-Environment Interactions Related to Parkinson's Disease Susceptibility
- The NETP Presents the Fiscal Year 2019 Early-Investigator Research Award Recipients
- Reducing Tau as a Therapeutic Strategy for Improving Cognitive Dysfunction in Parkinson's Disease
- Identifying an Additional Risk for Sporadic Parkinson's Disease in the Gut Microbiome
- Dr. Angus Nairn - Proteomic Methods for Analyzing Protein in Dopaminergic Neurons
- Remembering Dr. Robert Burke: A Pioneer in Neuro-restorative Approaches to Treating Parkinson's Disease
- Dr. Andrew Singleton - Aging Whole-Genome Sequencing in Parkinson's Disease
- Dr. Kenneth Marek - Evaluating the Natural History of Prodromal PD in the PARS Cohort
- Dr. Caroline Tanner Video - Persistent Organic Pollutants and Parkinson's disease in Native Populations of Hawaii and Alaska
- Dr. Paul Greengard Video - New P11 Biomarker Predicts Clinical Effectiveness of Antidepressant Drugs
- Alpha-synuclein: Promising molecular test for Parkinson's disease
- PRP PI Honored at the White House as a 'Champion of Change'

Orthotics and Prosthetics Outcomes:

- Assessing the Physical and Psychosocial Needs of Women with Limb Loss
- Improved Daily Comfort and Mobility for Lower-Limb Amputees Using Novel Release-Relock System
- Hip Muscle Quality and Osseointegration Outcomes
- Sweaty Issues: Seeking to Reduce Residual Limb Perspiration to Improve the Quality of Life of Amputees
- Enhanced Autodiagnostic Adaptive Trainer for Myoelectric Prosthesis Users (eADAPT-MP)
- The Narrow Beam Walking Test: An Improved Clinical Balance Test for Assessing Fall Risk in Unilateral Lower Limb Prosthesis Users
- Women's Specific Footwear with Prosthetic Feet

- A Prosthetic Foot Emulator to Optimize Prescription of Prosthetic Feet in Veterans and Service Members with Leg Amputations
- A Novel Prosthetic Foot Designed to Maximize Functional Abilities, Health Outcomes, and Quality of Life in People with Transtibial Amputation
- SpringActive Odyssey Ruggedized Ankle Prosthesis
- Improving the Control of Powered Lower Limb Prostheses

Ovarian Cancer:

- CDMRP-FUNDED RESEARCH SEEKS TO UNDERSTAND THE CONNECTION BETWEEN PSYCHOLOGICAL DISTRESS AND OVARIAN CANCER
- Falloposcope: A Minimally Invasive Tool for Early Ovarian Cancer Detection
- Leukemia Inhibitory Factor and Interleukin-6: Functioning in Parallel to Promote Ovarian Cancer Growth
- Exploiting the Immunometabolome to Enhance Antitumor Immunity in Ovarian Cancer
- Developing Therapeutics in Rare Subtypes of Ovarian Cancer
- Mentorship Is a Key Component for a Successful Ovarian Cancer Research Team
- Nanoparticles for Effective and Targeted Ovarian Cancer Treatment
- A microRNA Promotes Oncogenic Transformation Leading to Ovarian Cancer
- Ovarian Cancer Academy: 10 Years of Empowering Early Career Ovarian Cancer Investigators
- Combination Immunotherapies Offer New Hope for Chemotherapy-Resistant Ovarian Cancer Patients
- A Collaborative Effort has Uncovered Novel Therapies to Treat an Aggressive Form of Ovarian Cancer That is Unresponsive to Standard Treatment
- BRCA in Ovarian Cancer: Understanding the Risk and Finding New Means of Treatment
- A Multi-Institutional Approach to Understanding the Pathology of Ovarian Cancer
- A More Reliable Personalized Medicine-Based Approach to Test Ovarian Cancer Drugs
- Cyclin E1 as a Therapeutic Target for High-Grade Serous Ovarian Cancer
- The Impact of the Ovarian Cancer Academy Is Long-Lasting and Far-Reaching
- Investigation of a Novel PET Tracer to Assess PARP Inhibitor Sensitivity in Ovarian Cancer Patients
- Expert Highlights Immunotherapy Potential in Ovarian Cancer
- Evaluation of DNA Repair Function as a Predictor of Response in a Clinical Trial of PARP Inhibitor Monotherapy for Recurrent Ovarian Carcinoma
- Towards Understanding Ovarian Cancer Progression and Chemotherapy Resistance
- Chip-Based Magnetic Imager for Molecular Profiling of Ovarian Cancer Cells
- The Clinical Development Award: Accelerating Ovarian Cancer Research into Clinical Application
- Combination Therapy of JO-c and PEGylated Liposomal Doxorubicin/DoxilT™ in Ovarian Cancer Patients
- Providing Hope: Increasing Long-Term Survivorship of Ovarian Cancer Patients
- Genetic Modifiers of Ovarian Cancer Risk in BRCA1 Mutation Carriers
- Optical Imaging Falloposcope for Minimally Invasive Ovarian Cancer Detection
- Ubiquitin-Mediated Protein Degradation Pathways for Ovarian Cancer Treatment
- Repurposing FDA-Approved Drug as a Potential Metastasis Inhibitor for Ovarian Cancer Treatment

- Therapeutic Strategies against Cyclin E1-Amplified Ovarian Cancers

Pancreatic Cancer:

- Early-Career Investigator Award Recipients Bring New Talent to the Pancreatic Cancer Research Program

Parkinson's:

- The PRP Presents the Fiscal Year 2022 Investigator-Initiated Research Award Recipients
- The PRP Presents the Fiscal Year 2022 Early Investigator Research Award Recipients
- The PRP Presents the Fiscal Year 2022 Synergistic Idea Award Recipients
- Exercise and Plasticity in PD: Functional and Structural Evidence in the Cortex and the Spinal Cord
- The Role of Astrocytes and Microglia in Exercise-induced Neuroplasticity in Parkinson's Disease
- Physical Therapy Incorporates Digital Health Technology and Behavioral Intervention to Improve Exercise Participation and Slow Down Parkinson's Progression
- Understanding the Role of Gene-Environment Interactions in the Degeneration of Human Dopaminergic Neurons in Parkinson's Disease
- Mechanisms of Specific Lipid-Induced Degeneration Causing Non-Motor Symptoms of Parkinson's Disease
- Effects of Exercise on Glymphatic Functioning and Neurobehavioral Correlates in Parkinson's Disease
- Synergistic Idea Award Highlights
- Investigator-Initiated Research Award Highlights
- Parkinson's Risk Estimation Using Digital Diagnosis Codes and Treatments
- Early Investigator Research Award Highlights
- Investigating Autonomic Nervous System Symptoms in Parkinson's Disease
- Exercise Impacts Parkinson's-Related Metabolic Pathways

Peer Reviewed Cancer:

- Peer Reviewed Cancer Research Program - 18 Cancer-Related Topics in FY24, Including Pediatric Brain Cancer
- Convergent Science Virtual Cancer Center — Supporting Military Health Video
- New Behavioral Health Science Awards Aim to Improve Quality of Life in Pediatric, Adolescent, and Young Adult Cancer Survivors
- The Convergent Science Virtual Cancer Center (CSVCC) Video
- Novel Targets for the Treatment of Metastatic Colorectal Cancer
- IN FOCUS: Patient Well-Being and Survivorship in Cancer Care and Research
- Novel CAR-T Therapy Targeting BAFF-R Against B-Cell Lymphomas
- A Promising Nanotech Approach to Enhance Immunotherapy in Liver Cancer
- Thyroid Cancer Awareness Month: Innovations in Thyroid Cancer Research
- Identifying New Therapeutic Options for Osteosarcoma

- Combination Therapy Utilizing Prodrugs with Protoporphyrin IX Photodynamic Therapy
- Defining Microbial Ecosystems in Bladder Cancer Patients
- Fiscal Year 2020 Peer Reviewed Cancer Research Program Convergent Science Virtual Cancer Center
- Early Career Investigators Are Developing Strategies to Improve Outcomes in Head and Neck Cancers
- Boosting *Listeria* Hysteria: Prime Strategies Against Cancer
- Neutro-lizing Colorectal Cancer
- Defining Mechanisms of Resistance to Immunotherapy in Head and Neck Cancer
- Oncolytic Virotherapy: Boosting the Immune Response in Brain Cancer
- Attacking Cancer with Missiles
- Multifunctional Nanofiber for Convection-Enhanced Delivery of Theranostics to Diffuse Intrinsic Pontine Glioma
- Targeting Protein Degradation in Ewing Sarcoma
- FY20 PRCRP Awards Will Investigate Novel Ways to Treat Sarcomas that Disproportionately Affect the Pediatric, Adolescent, and Young Adult Populations
- Novel Therapeutic Strategies for Overcoming Treatment Resistance in Biliary Cancers
- Mantis Shrimp Inspired Near-Infrared Endoscopy for Colorectal Cancer Surgery
- Blood Cancer Breakthrough: Recently FDA-Approved XPOVIO ® Research Was Initially Funded by DOD
- Imaging as Predictive Biomarker for Esophageal Cancer: Offering New Hope to a Forgotten Population of Cancer Patients
- In Focus: Cancer in Children, Adolescents, and Young Adults (CCAYA)
- In Focus: Military Health and Cancer
- A Powerful New Model for Accelerating Liver Cancer Research
- Research that Considers the Whole Patient
- Investigating the Link Between Potential Cancer-Causing Pollutants in the Environment and Testicular Cancer Risk in US Air Force Servicemen
- The Fiscal Year 2020 Peer Reviewed Cancer Research Program Virtual Cancer Center: An Opportunity for Leadership
- Role of the Inhibitory Receptor TIGIT in the Regulation of CD4+ Tregs in Patients with Advanced Melanoma
- Discovering New Drug Targets in Radiation-Induced Myeloproliferative Neoplasms
- The Peer Reviewed Cancer Research Program (PRCRP) Vision Video
- Metabolic Remodeling of the Tumor Microenvironment to Improve the Efficacy of Immunotherapy
- Overcoming Tumor Immune Evasion
- IN FOCUS: Oncolytic Virotherapy in Pediatric Brain Tumors
- Turning the Heat up on Cancer: Combining Heat and Immunotherapy to Better Treat Bladder Cancer
- Targeting Increased Polyamine Transport of Resistant Melanomas
- Central Tolerance Blockade to Augment Checkpoint Immunotherapy in Melanoma
- IN FOCUS: Research in Cancers in Children, Adolescents, and Young Adults
- Neural Proteins Implicated in Pancreatic Cancer Desmoplasia

- IN FOCUS: Brain Tumor Research Funding
- IN FOCUS: BLADDER CANCER
- Exposing a Silent Killer: Dr. Arti Shukla Studies Methods for Early Detection of Mesothelioma
- In Focus: Melanoma Research Funding
- Advancing Our Understanding of How to Reduce the Risk of Developing Blood Cancer After Radiation Exposure
- An Improved Toolset for Pancreatic Cancer Research
- IN FOCUS: STOMACH CANCER RESEARCH FUNDING
- IN FOCUS: LIVER CANCER RESEARCH FUNDING
- Giving Mesothelioma the One-Two Punch
- Discovering novel therapeutic strategies to treat kidney cancer
- Targeting Fibroblast Growth Factor Receptor Signaling Pathways in Mesothelioma
- Identification of Novel RNA Editing Biomarkers of Human Leukemia Stem Cell Generation
- Linking Observed Mutations from Pediatric Brain Tumors to Mechanisms That May Drive Tumorigenesis
- Understanding Inflamation and Its Link to Colorectal Cancer

Peer Reviewed Medical:

- CDMRP Funds Research to Reduce Opioid Use in Veterans and Service Members with Chronic Pain
- Developing an Effective Treatment Option for Pancreatitis
- Promoting Regeneration and Healing During Bone Transport Using a Novel Implant Technology
- Strain-Programmable Bioadhesive Patch for Accelerated Healing of Diabetic Ulcer
- Developing a Portable Diagnostic Device for Rapid and Accessible Screening of Hepatitis B
- Improving Function Through Nonopioid Pain Relief in Service Members with Chronic Back Pain Following Trauma or Overuse Injury Using a Nonsurgical Therapy
- Group-Based Adaptations of Brief Cognitive Behavioral Therapy Effectively Mitigate Suicide Ideation in Military Personnel
- Clinical Development of a Novel Lung and Windpipe Sealant
- Development of DF-COV for the Treatment and Prevention of COVID-19 and Associated Immunopathologic Respiratory Complications
- Preclinical Advancement of Novel Mechanism-of-Action Therapeutics to Combat Type 2 Diabetes in US Veterans
- A Safer Alternative to Mechanical Ventilation in the Treatment of Acute Respiratory Distress Syndrome
- Prevention of Post-traumatic Osteoarthritis with CDK9 Inhibitors
- Development of an Innovative Combination Therapy Against Multidrug-Resistant Bacteria
- Web-Based Provider Training for Cognitive Behavioral Therapy of Insomnia (CBT I)
- Development of a Novel Cell-Based, Live Influenza Vaccine with Universal Attributes
- Development of (*R*)-ND-336 for the Treatment of Diabetic Foot Ulcers
- Growth-Adaptive Pediatric Heart Valves: Addressing a Critical Unmet Need for Infants and Young Children That Saves Lives and Reduces Surgeries
- Comparative Effectiveness of Acupuncture for Chronic Pain and Comorbid Conditions

- Mitigating the Effects of Acute and Delayed Radiation Exposure to Hematopoiesis and Blood Stem Cell Function Using the Prostaglandin E2 Signaling Cascade
- Novel Liver-Stage-Active Antimalarials
- A Novel Host-Protein Point of Need Platform for Differentiating Bacterial Versus Viral Infections: Transition from Prototype to Product
- Amicidin-α Surgical Gel for Prevention of Infections in Surgery and Trauma
- Novel RNAi Ovitraps to Protect Service Members from Mosquito-Borne Illnesses
- Development of Novel Pain Medications from Marine Sources to Replace Opioids
- Creating Clinical Solutions from Basic Research: A CDMRP Bone Story
- Investigating the Cellular and Molecular Mechanisms Associated with Worsened Outcomes in COVID-19 Patients with Chronic Lung Disease
- Development of BIO 301: An Encapsulated Nanogenistein Therapy
- Peer Reviewed Medical Research Program Releases Funding Opportunities for COVID-19 Research
- Research with a Comprehensive Impact
- Taking Ideas From Discovery to the Clinic
- Improving Medical Care for Service Members and Their Families
- Mesenchymal Stem Cell Transplantation as a Therapeutic Agent for Multiple Sclerosis
- Adoptive Cellular Therapy Targeting Recurrent Pediatric Brain Cancers
- Guiding Therapeutic Decisions for Patients Using microRNA Biomarkers
- Developing a Fingerprint for Renal Cell Carcinoma Progression
- Making a difference in congenital heart disease
- Engineering Immunotherapies for Mesothelioma and Other Solid Tumors

Peer Reviewed Orthopaedic:

- Enzyme-Responsive Hydrogels for Treatment of Post-Traumatic Osteoarthritis
- Effect of ALM Drug Therapy to Reduce Inflammation and Scar Formation After ACL Reconstruction Surgery: Targeting Earlier Return to Active Duty
- Improved Daily Comfort and Mobility for Lower-Limb Amputees Using Novel Release-Relock System
- Cognitive Function and ACL Rehabilitation
- Pre-Innervated Muscle Complexes: A New Avenue for Treatment of Volumetric Muscle Loss
- A Clinician-Friendly Algorithm to Create Low-Cost, Customizable Prosthetic Feet
- Early Data Suggests a Potential New Bioengineering Strategy for Treating Osteoarthritis
- Creating Clinical Solutions from Basic Research: A CDMRP Bone Story
- Development of Large Animal Models for Improved Regenerative Therapies in Bone Healing and Volumetric Muscle Loss Injury
- Seeking Multimodal Vaccines to Eradicate Biofilm-Associated Microorganisms Following Traumatic Musculoskeletal Injury
- New Information in Our Understanding of Osteoarthritis Onset
- CPT Matthew Anderson - Advocating for Change
- Focusing on Optimal Recovery and Restoration for our Servicemembers

- Neuroma/Targeted Muscle Reinnervation Educational Highlight
- Development of a High-Performance, Adaptable Prosthetic Socket for Amputees
- Experimental PEG Fusion Medical Device for Immediate Physiological Recovery After Peripheral Nerve Injury
- Development of an Active Cooling System for Improving Residual Limb Skin Care
- New Large Animal Model to Study Treatment for PTOA
- siRNA Delivery to Stem Cells in the Treatment of Post-Traumatic Osteoarthritis
- Providing upper-extremity prosthetic device users with functionality and flexibility

Prostate Cancer:

- CDMRP FUNDS MENTORED SCIENCE TO EXPAND CAPACITY FOR IMPACTFUL PROSTATE CANCER RESEARCH
- CDMRP Funds Impactful Prostate Cancer Research to Improve the Lives of Those Affected
- Therapeutic Targeting of Neuroendocrine Prostate Cancer
- B7-H3 (CD276) as a Therapeutic Target in Lethal Prostate Cancers
- An International Registry to Inform Treatment Choices for Patients with Advanced Prostate Cancer
- Unique Structural Characterization of Androgen Receptor - A Key Protein in Prostate Cancer
- PSMA-PET Imaging in Prostate Cancer: From Detection to Therapeutics
- Neuroendocrine Differentiation and Enzalutamide Resistance in Prostate Cancer
- Quality of Life among African American Prostate Cancer Survivors and Their Partners: A Multilevel Perspective
- Active Surveillance for African-American Men with Prostate Cancer
- Combining Nanotechnology and Radiation to Enhance Checkpoint Blockade Immunotherapy of Advanced Prostate Cancer
- The Impact of a Gene Expression Profile on Treatment Choice and Outcome among Minority Men Newly Diagnosed with Prostate Cancer
- Effects of CD24/RCC2/p53 Signaling on Prostate Cancer Metastasis
- Novel Tumor Suppressive Role of Phosphodiesterases in Prostate Cancer
- Characterization of the Immune-Oncologic Profile of Lethal Prostate Cancer in African American Men
- Alleviating Immunosuppression to Enhance CAR T-Cell Efficacy in Metastatic Prostate Cancer
- Identifying Genomic Drivers of Prostate Cancer Progression
- Investigating Racial Differences in the Financial Impact of Prostate Cancer
- Preserving Sexual Function in Men Undergoing Radiation Treatment for Prostate Cancer
- High dose testosterone causes DNA damage and suppresses prostate cancer growth
- Bipolar Androgen Therapy: Breaking Out of the Chrysalis of Chronic Androgen Deprivation Therapy in Men with Late-Stage Castrate-Resistant Prostate Cancer
- BET Bromodomain Degraders for the Treatment of Metastatic Prostate Cancer
- Using a novel genetically engineered mouse model to identify new drug targets for treatment-resistant metastatic prostate cancer
- First-in-Class Anti-sMIC Immunotherapy Antibody Therapy to Target Prostate Cancer Metastasis
- Artificial Lymph Node: A Trap to Study and Fight Prostate Cancer

- Targeting BET proteins in Prostate Cancer
- Synergistic Action of FOXP3 and TSC1 Pathways in Prostate Cancer Progression
- Revolutionizing prostate cancer imaging with collagen hybridizing peptide
- Assessment of Biospecimen Needs of the Prostate Cancer Research Community
- The PROPHECY Study Validates the Use of Two AR-V7 Biomarker Assays for Predicting Hormone Therapy Resistance in Men with Metastatic Castration-Resistant Prostate Cancer
- NEK6 mediates castration resistance in prostate cancer in vivo
- LSD1: a novel biomarker and therapeutic target for prostate cancer
- Assessment of Biospecimen Needs of the Prostate Cancer Research Community
- Deconvoluting the Complexity of Bone Metastatic Prostate Cancer via Computational Modeling
- Combining Metformin with Androgen Deprivation Therapy to Treat Advanced Prostate Cancer
- Clinical Implications for Long Non-coding RNAs in Prostate Cancer
- CDK12 loss is a distinct immunogenic class of advanced prostate cancer
- Autonomic Nerves Drive Prostate Cancer Growth, Invasion, and Metastasis
- Inhibition of ACK1 to Overcome Drug Resistance in Prostate Cancer
- A Relationship Between Mast Cells and Racial Disparity of Prostate Cancer
- Chimeric Amino Acid Rearrangements as Immune Targets in Prostate Cancer
- Dr. Bettina Drake Video - Prostate Cancer Outcomes in VA Hospitals
- Noninvasive Detection of AR-FL/AR-V7 as a Predictive Biomarker for Therapeutic Resistance in Men with Metastatic Castration-Resistant Prostate Cancer
- Circulating tumor cell analysis as a treatment-specific biomarker for prostate cancer
- Targeting the Aberrant Androgen Receptor in Advanced Treatment-Resistant Prostate Cancer
- Statin use may increase survival in men with prostate cancer undergoing androgen deprivation therapy
- Cooperativity between Oncogenic PKC Epsilon and Pten Loss in Prostate Cancer

Psychological Health and Traumatic Brain Injury:

- Preparing for Future Battlefield Contestations by Maximizing Medical and Prolonged Field Care Methods in the Operational Environment
- Effect of Prolonged Exposure Therapy on PTSD Symptom Severity in Military Personnel
- Predicting Generalized Anxiety Among Military Couples Following Deployment
- A Military-Relevant Model of Closed Concussive Head Injury: Longitudinal Studies Characterizing and Validating Single and Repetitive mTBI
- Genetic and Environmental Predictors of Combat-Related PTSD/The STRONG STAR Multidisciplinary PTSD Research Consortium
- The TBI Endpoints Development (TED) Initiative Advances Multidisciplinary Research Efforts to Improve Diagnosis and Treatment of TBI
- TEAM-TBI: a Precision Medicine Approach for TBI
- CENC Researchers Blaze a Trail to New Insights in Mild Traumatic Brain Injury

- Operation Brain Trauma Therapy: Consortium Identifies Promising New Treatments and Biomarkers for Traumatic Brain Injury
- The INjury and TRaumatic STress (INTRuST) Clinical Consortium Brings Together Scientists to Further Posttraumatic Stress Disorder (PTSD) and Traumatic Brain Injury (TBI) Research
- Treatment of Adult Severe Traumatic Brain Injury Using Autologous Bone Marrow Mononuclear Cells
- Treatment of TBI with Hormonal and Pharmacological Support, Preclinical Validation Using Diffuse and Mechanical TBI Animal Models
- Is telemedicine-delivered therapy as effective as treatment delivered at the clinic?
- Defining the Impact of Group Therapy on Treating PTSD in Active Military Personnel

Rare Cancers:

- National Childhood Cancer Awareness Month: Advancing Research in More Than 13 Types of Childhood Cancers, Including Neuroblastoma
- Head and Neck Cancer Awareness Month: April 2023
- Cholangiocarcinoma Awareness: A Rare Cancer Too Dangerous for a "Watch-and-Wait" Approach
- NRTO: A Networking Platform for Rare Ovarian Cancer
- Rare Cancers Research Program Initiatives in Sarcoma Research
- Partnering with patients to create a rare soft tissue sarcoma target discovery platform as a community resource

Reconstructive Transplant Research:

- Ethical Factors Impacting Patients' Decisions to Pursue VCA
- Bioengineered Particles to Promote Regulatory T Cells and Modulate the Immune System in Transplantation and Multiple Sclerosis
- Researching New Ways to Block Inflammation and Prevent Severe Tissue Damage Following Transplantation
- Regaining independence after the world's first successful combination face and double hand transplant
- Mapping the Inflammatory Response to Vascularized Composite Allotransplantation
- Transfer of Donor Lymph Nodes to Promote Graft Tolerance
- Engineered Microparticles for Promoting Transplant Tolerance: Taking a Page Out of Cancer's Playbook
- Increasing Organ Donor Authorization for Vascularized Composite Allotransplantation
- Improving and Quantifying Functional Hand Use in Hand Transplant Recipients and Amputees
- CDMRP-funded Physician Performs Historic Face Transplant Surgery
- Project Update: Biomarkers to Predict Rejection in Vascularized Composite Allotransplantation: MMP3
- Reconstructive Transplant Research Program (RTRP) Request for Information (RFI)
- Developing Therapeutic Reagents to Accelerate the Rate of Peripheral Nerve Growth after Reconstructive Transplantation

- Improving Ischemia Reperfusion Injury in Vascularized Composite Tissue Allotransplantation via Histone Deacetylase Modulation
- T-Regulatory Cell-Based Therapies Promote Survival of Vascularized Composite Allografts
- Biomarkers to Predict Rejection in Vascularized Composite Allotransplantation
- Utilizing Vascularized Bone to Improve Outcomes of Face Transplantation

Scleroderma:

- Preparing the Way for New Investigators While Fostering High-Impact Research: The Scleroderma Research Program's Idea Development Award — New Investigator Collaboration Option

Spinal Cord Injury:

- Zeroing in on Neuropathic Pain in Spinal Cord Injury
- Melissa Nunn: Integrating as a Spinal Cord Injury Lived Experience Consultant within the Hiremath Research Team
- Update on TRACK-SCI: Toward Better Biomarkers and Data Accessibility for Spinal Cord Injury Research
- Stentrode: A SCIRP-Funded Device to Facilitate Independence After Paralysis
- TRACK-SCI: Leveraging Fundamental Clinical Discoveries to Guide Treatment and Improve Recovery after Spinal Cord Injury
- Acute Intermittent Hypoxia as a Multi-Functional Therapy for Spinal Cord Injuries
- Efficacy Study of a Fully Implanted Neuroprosthesis for Functional Benefit to Individuals with Tetraplegia
- Utilizing Nerve Transfers to Improve Hand Function Following Cervical Spinal Cord Injury
- Treatment of Sleep Apnea in Patients with Cervical Spinal Cord Injury
- Directing Spinal Cord Plasticity: The Impact of Stretch Therapy on Functional Recovery After Spinal Cord Injury
- A Randomized, Crossover Clinical Trial of Exoskeletal-Assisted Walking to Improve Mobility, Bowel Function and Cardio-Metabolic Profiles in Persons with SCI
- Restoring Proprioception via a Cortical Prosthesis: A Novel Learning-Based Approach
- Managing the acute spinal cord injury
- Introducing the FY15 Spinal Cord Injury Research Program Portfolio
- An Implantable Neuroprosthetic Device to Normalize Bladder Function after Spinal Cord Injury
- Experiences of Living with Pain after a Spinal Cord Injury

Tick-Borne Disease:

- Identifying How Spotted Fever Group Rickettsia Bacteria Invade and Promote Their Life Cycle in Host Cells
- Progress in Development of a Live Attenuated Vaccine for Powassan Virus
- Lyme Disease Awareness Month - Spotlight on Tick-Borne Disease Research Program Fiscal Year 2021 Lyme Disease Initiatives

- Wearable Devices for Controlled Release of Tick Repellents
- Lyme Disease Awareness Month - Spotlight on Tick-Borne Disease Research Program Fiscal Year 2020 Lyme Disease Initiatives
- A Pre-Exposure Immunoprophylaxis for the Prevention of Lyme Disease
- Lyme Disease Awareness Month - Spotlight on TBDRP FY19 Lyme Disease Initiatives
- Generation of a Vaccine Candidate to Protect Against Tick-Borne Ehrlichiosis
- Lyme Disease Awareness Month - Spotlight on TBDRP FY18 Lyme Disease Initiatives
- Scientist Working to Improve Diagnosis of Lyme Disease and Other Tick-Borne Illnesses
- Lyme Disease Awareness Month - Spotlight on TBDRP FY17 Lyme Disease Initiatives

Traumatic Brain Injury and Psychological Health:

- CDMRP Funds Innovative Research to Better Understand and Treat Brain Injuries
- Treatment of Comorbid Sleep Disorders and PTSD
- Clinical Trial of Pregnenolone for the Reduction of Symptoms Associated with Traumatic Brain Injury
- Glecaprevir/Pibrentasvir for the Treatment of Posttraumatic Stress Disorder
- Novel Stem Cell Model Reveals How Neurons Respond to Stress in PTSD
- Prolonged Exposure Therapy for PTSD: 60-Minute Sessions as Effective as 90-Minute Sessions
- Clinical Trial of Sildenafil Citrate for Treatment of Cerebrovascular Dysfunction in Chronic Traumatic Brain Injury
- Developing the Use of Intranasal Insulin for On-Field Treatment of Traumatic Brain Injury
- Validating a New Algorithm to Diagnose Traumatic Brain Injury in Far-Forward Settings
- CDMRP supports Sexual Assault Prevention and Response Research on Behalf of the Department of Defense

Tuberous Sclerosis Complex:

- CDMRP-Funded Tuberous Sclerosis Complex Research Addresses TSC-Associated Epilepsy
- The Role of Blood-Brain Barrier Dysfunction in Epilepsy in Tuberous Sclerosis Complex
- Beyond Rapamycin: A Search for Curative Therapies in TSC
- A New Mouse Model Sheds Light on the Origin of Epilepsy in Tuberous Sclerosis Complex
- A Timeline for Success: The FDA Approves New Topical Treatment for Facial Tumors in TSC
- Autophagy and the Neurocognitive Deficits in TSC
- Developing Novel mTORC1 Inhibitors to Treat TSC
- Genetic Analysis of TSC Tumors Identifies Novel Therapeutic Targets
- Neural Circuits Underlying Autism Relevant Behaviors in TSC
- TSC Remote Assessment and Intervention (TRAIN)
- Targeting Autophagy for the Treatment of TSC and LAM
- Inhibition of Neuron Hyperexcitability In The TSC Brain May Provide A Therapeutic Option To Treat Seizures
- Causes of Epilepsy in TSC- Potential Therapeutic Targets
- Identifying Mechanisms Initiating LAM and Angiomyolipoma in Tuberous Sclerosis Complex
- Metabolic Imaging Biomarkers for TSC

- Repurposing FDA-Approved Drugs to Treat Tuberous Sclerosis Complex
- Gene Therapy, a New Approach to Treating TSC
- Topical Rapamycin Therapy to Alleviate Cutaneous Manifestations of Tuberous Sclerosis Complex
- Modeling TSC and LAM Using Patient-Derived Induced Pluripotent Stem Cells
- A Novel Model Provides Insight into Tuberous Sclerosis Complex
- A Promising Early Intervention for TSC linked Autism in Infants
- Building Protein Network Models of Epilepsy to Find New Treatments in TSC
- Understanding the Mechanisms of Disease Leads to Potential New Treatments for TSC-related LAM
- Identifying the Roots of Myelin Dysfunction in the TSC Brain
- Inflammation and Epilepsy in TSC
- Targeting Amino Acid-mTORC1 Signaling for Treatment of TSC
- Loss of Tsc2 and Increased mTORC1 Signaling in Excitatory Neurons Lead to Complex Abnormalities
- TSC-FoxO Signaling Network in Kidney Cancer Development

Vision:

- CAPT Walter Steigleman, MD - Advancing Research for Military Vision Trauma
- MAJ Thomas Zampieri (USA Ret.), PhD, PA - Restoring Hope for Service Members with Eye Trauma
- Michael Steinmetz, PhD - Generating New Treatments for Warfighters and Their Families
- COL Mark Reynolds, MD - Addressing the Unique Challenges of Military Eye Trauma
- USC Team Captures Valuable User Feedback from Military Medical Personnel regarding Novel Reversible Adhesive to Manage Ocular Trauma
- Computational Modeling of Primary Blast Injury to the Eye
- A Retinal Prosthetic with the Capacity to Produce Normal Vision