**Table S1: Categorization of NIAMS 2013 skin-focused grants**

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| --- | --- | --- | --- | --- |
| **Institution** | **Grant Title** | **Category** | **Funding** | **Basic Science Grant?** |
| Albany Medical College | [Keratinocyte Integrin Crosstalk During Wound Healing](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8421453" \t "_blank) | General cutaneous research | $327,125 | Yes |
| Baylor College of Medicine | [Regulation of skin epithelial stem cell homeostasis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8488414" \t "_blank) | General cutaneous research | $314,982 | Yes |
| Benaroya Research Inst at Virginia Mason | [Regulation of TSLP-Mediated Skin Inflammation](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8460069" \t "_blank) | Dermatitis including eczema | $371,761 | Yes |
| Boston University Medical Campus | [Higher-order chromatin remodeling and regulation of pigmentation](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8638589" \t "_blank) | General cutaneous research | $208,718 | Yes |
|  | [Molecular control of normal and neoplastic skin stem cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8487367" \t "_blank) | General cutaneous research | $124,227 | Yes |
|  | [Bone Morphogentic Protein signaling in the control of skin development, hair grow](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8492033" \t "_blank) | General cutaneous research | $335,912 | Yes |
| Brigham and Women’s Hospital | [The clinical use of Flt3L - an immune adjuvant to potentiate Dendritic Cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8494576" \t "_blank) | General cutaneous research | $136,350 | Yes |
|  | [CD1 presentation of self glycolipids and lipopeptides to T cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8460495" \t "_blank) | General cutaneous research | $349,999 | Yes |
|  | [Mac-1 (CR3) and Fc gamma receptors in immune-mediated neutrophil cytotoxicity](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8423361" \t "_blank) | General cutaneous research | $359,430 | Yes |
|  | [Immune Evasion in Human Squamous Cell Carcinomas of the Skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8502435" \t "_blank) | Non-melanoma skin cancer  Other (Skin changes due to chronic exposure to nonionizing radiation) | $353,259 | No |
|  | [Dermatology Training Grant](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8494571" \t "_blank) | Training & department/institute program | $277,287 | No |
|  | [Skin Homing T Cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8628602" \t "_blank) | General cutaneous research | $438,194 | Yes |
| Brown University | [Ion Channel and Calcium Signaling in Ultraviolet Light Transduction in Human Skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8612052" \t "_blank) | General cutaneous research | $310,848 | Yes |
| Case Western Reserve University | [IL-17C mediated mechanisms of inflammation](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8445590" \t "_blank) | Psoriasis | $363,699 | Yes |
|  | [Neurogenic inflammation and psoriasiform dermatitis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8588226" \t "_blank) | Psoriasis | $168,406 | Yes |
|  | [Psoriatic Regulatory T cell Dysfunction](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8683592" \t "_blank)\* | Psoriasis | $53,620 | Yes |
|  | [PPAR-gamma Signaling in Normal Pilosebaceous Units and in Scarring Alopecia](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8735236" \t "_blank)\* | Other (Primary cicatricial and scarring alopecia) | $139,500 | Yes |
|  | [NIAMS Core Center: Skin Diseases Research Center](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8526374" \t "_blank) | Training & department/institute program | $583,725 | No |
|  | [Psoriatic Regulatory T cell Dysfunction](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8501377" \t "_blank)\* | Psoriasis | $322,164 | Yes |
|  | [PPAR-gamma Signaling in Normal Pilosebaceous Units and in Scarring Alopecia](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8528334" \t "_blank)\* | Other (Primary cicatricial and scarring alopecia) | $318,942 | Yes |
|  | [Training in Investigative and Molecular Dermatology](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8501373" \t "_blank) | Training & department/institute program | $164,587 | No |
|  | [Amelioration of Vesicant-Induced Skin Injury by High Dose 25-Hydroxyvitamin D](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8545673" \t "_blank) | Miscellaneous | $788,987 | Yes |
| Children’s Hospital & Res Ctr at Oakland | [Cancer Associated Fibroblasts and Basal Cell Carcinoma Allografts](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8468996" \t "_blank) | Non-melanoma skin cancer | $76,950 | Yes |
| Children’s Hospital Corporation | [Regulators of Melanocyte and Melanoma Cell Identity](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8460050" \t "_blank) | Melanoma | $128,115 | Yes |
|  | [Hippo signaling and the control of epidermal development and growth](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8545672" \t "_blank) | Non-melanoma skin cancer | $371,925 | Yes |
| Columbia University Health Sciences | [Columbia University Medical Center Skin Disease Research Center (CUMCSDRC)](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8499257" \t "_blank) | Training & department/institute program | $596,614 | No |
|  | [Mechanisms of mechanosensory transduction in Merkel cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8490308" \t "_blank) | General cutaneous research | $327,068 | Yes |
| Cornell University | [Molecular Mechanisms of Cell Fate Decisions in Hair Follicle Stem Cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8520181" \t "_blank) | General cutaneous research | $347,428 | Yes |
| Duke University | [JUN PROTEINS IN EPIDERMAL HOMEOSTASIS AND NEOPLASIA](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8471061" \t "_blank) | Non-melanoma skin cancer | $322,164 | Yes |
|  | [Enhancing the CARRA: Integration and Dissemination of Clinical Data](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8546978" \t "_blank) | Training & department/institute program | $178,708 | No |
| Emory University | [Cadherin regulation in dermal endothelial cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8526381" \t "_blank) | General cutaneous research | $395,512 | Yes |
| Fred Hutchinson Can Res Ctr | [Mechanisms of epidermal growth during development, homeostasis, and tumorigenesis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8714189" \t "_blank) | General cutaneous research | $249,000 | Yes |
| Glsynthesis, Inc. | [A Soft Topical Antiandrogenic Drug](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8588704" \t "_blank) | Dermatitis including eczema  Acne vulgaris  Other (Androgenic alopecia)  Other (Hypertrichosis) | $237,357 | Yes |
| Gordon Research Conferences | [2013 Collagen Gordon Research Conference and Gordon Research Seminar](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8519773" \t "_blank) | Conference | $20,000 | No |
|  | [2013 Epithelial Differentiation and Keratinization GRC/GRS](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8522861" \t "_blank) | Conference | $20,000 | No |
|  | [2013 Tissue Repair and Regeneration Gordon Research Conference](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8528020" \t "_blank) | Conference | $22,000 | No |
|  | [2013 Barrier Function of Mammalian Skin Gordon Research Conferences](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8527924" \t "_blank) | Conference | $15,000 | No |
| Hampton University | [Plan and Conduct the Hampton University Skin of Color Research Institute Skin of](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8597667" \t "_blank) | Conference | $15,000 | No |
| Harvard University (Medical School) | [Mechanisms of sensory neuron control over skin immune responses](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8521056" \t "_blank) | Psoriasis | $33,923 | Yes |
|  | [Molecular and Cellular Mechanisms of Vascular Anomalies](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8528325" \t "_blank) | Miscellaneous | $1,457,109 | Yes |
| Henry M. Jackson FDN for Adv Mil/Med | [Regulation of Dermal Fibroblasts in Skin Regeneration and Healing](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8529460" \t "_blank) | General cutaneous research | $320,808 | Yes |
| Indiana Univ-Purdue Univ at Indianapolis | [The Indiana Cutaneous Biological Research Training Program](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8473519" \t "_blank) | Training & department/institute program | $131,407 | No |
| Jackson Laboratory | [Discovering Novel Gene Networks for Skin Diseases](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8582268" \t "_blank) | General cutaneous research | $191,997 | Yes |
|  | [Genetics of Alopecia Areata in the C3H/HeJ Mouse](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8506975" \t "_blank) | Alopecia areata | $362,137 | Yes |
| John Wayne Cancer Institute | [Mechanisms of Innate and Acquired Host Defense and Tissue Injury in Skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8500211" \t "_blank) | Leprosy | $378,184 | Yes |
| Johns Hopkins University | [Cytokine Regulation of Wound Induced Skin Regeneration](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8457180" \t "_blank) | General cutaneous research | $57,734 | Yes |
|  | [Interferons and cytotoxic lymphocytes in dermatomyositis and cutaneous lupus](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8725793" \t "_blank) | Other (Lupus erythematosus) | $200,001 | Yes |
|  | [The structural support role of keratins in skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8386927" \t "_blank) | General cutaneous research | $456,127 | Yes |
|  | [Keratins, Wound Reepithelialization, and Hair Follicle Cycling](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8452599" \t "_blank) | General cutaneous research | $426,636 | Yes |
|  | [Transgenic Regulation of Keratinocyte to Nociceptor Signaling](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8449204" \t "_blank) | General cutaneous research | $173,138 | Yes |
| Kaiser Foundation Research Institute | [Comparative Effectiveness of Field-Treatments for Multiple Actinic](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8447336" \t "_blank) keratoses | Non-melanoma skin cancer  Other (Skin changes due to chronic exposure to nonionizing radiation) | $78,966 | No |
| Loyola University Chicago | [Modulating tolerance in a spontaneous mouse model of autoimmune vitiligo](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8457139" \t "_blank) | Other (Vitiligo) | $305,132 | Yes |
|  | [Linking Nicotinic Activation with Skin Innate Immunity and Atopic Dermatitis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8460051" \t "_blank) | Dermatitis including eczema | $319,556 | Yes |
| Massachusetts General Hosp | [Epigenetic regulation of epidermal homeostasis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8584899" \t "_blank) | General cutaneous research | $337,466 | Yes |
|  | [7th World Congress on Itch (WCI)](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8597572" \t "_blank) | Pruritus  Conference | $15,000 | No |
|  | [The MITF transcriptional network: melanoma risk and carcinogenesis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8439860" \t "_blank) | Melanoma | $342,200 | Yes |
|  | [Growth/differentiation control of keratinocytes by ROR alpha](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8451403" \t "_blank) | General cutaneous research | $110,376 | Yes |
|  | [Growth differentiation control in primary keratinocytes](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8459430" \t "_blank) | General cutaneous research | $431,247 | Yes |
|  | [Inductive properties of the dermal papilla of the hair follicle](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8519305" \t "_blank) | General cutaneous research | $360,840 | Yes |
|  | [Itch, proteases and protease-activated receptors](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8501380" \t "_blank) | Pruritus | $360,436 | Yes |
|  | [The Role of Presenilin in Hidradenitis Suppurativa](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8511572" \t "_blank) | Other (Hidradenitis suppurativa) | $82,650 | Yes |
| Mayo Clinic Arizona | [Eosinophil-nerve Interactions in Mouse Models of Dermatitis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8448622" \t "_blank) | Dermatitis including eczema | $558,283 | Yes |
| Medical College of Wisconsin | [Function and Targeting of CCR6/CCL20 in Autoimmune Psoriasiform Skin Disease](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8502109" \t "_blank) | Psoriasis | $314,313 | Yes |
|  | [Pediatric Dermatology Research Alliance Annual Conference](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8597492" \t "_blank) | Conference | $59,616 | No |
| Montana State University – Bozeman | [staphylococcus aureus biofilms mediate keratinocyte apoptosis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8496719" \t "_blank) | Bacterial skin diseases | $68,400 | Yes |
| Mount Sinai School of Medicine | [Exploring How Dermal Papilla Precursors Regulate Hair Follicle Formation](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8579382" \t "_blank) | General cutaneous research | $359,102 | Yes |
|  | [A Study of ILV-94 (Anti-22 Antibody) Administered via IV in Atopic Dermatitis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8580222" \t "_blank) | Dermatitis including eczema | $631,536 | Yes |
|  | [Elucidating the Functions of Epigenetic Regulators in Control of Skin Stem Cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8434079" \t "_blank) | General cutaneous research | $236,550 | Yes |
|  | [Specification of Dermal Papilla Cell Fate in the Hair Follicle Stem Cell Niche](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8437212" \t "_blank) | General cutaneous research | $345,010 | Yes |
|  | [Role of Chromatin Regulators in Skin Control](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8541696" \t "_blank) | General cutaneous research | $362,306 | Yes |
| National Jewish Health | [The Role of Bacterial Toxins in Human Skin Disease](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8508065" \t "_blank) | Dermatitis including eczema  Bacterial skin diseases | $292,718 | Yes |
| Nevus Outreach, Inc. | [2013 International Expert Meeting on Congenital Melanocytic Nevi (CMN) and Neuroc](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8597737" \t "_blank) | Conference  Miscellaneous | $30,000 | No |
| New York University School of Medicine | [Mechanisms of Homeostasis and Invasive Cell Migration in Skin Tumorigenesis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8731049" \t "_blank)\* | Non-melanoma skin cancer | $101,225 | Yes |
|  | [Biogenesis of Melanosomes](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8698892" \t "_blank)\* | Melanoma  Other (Vitiligo) | $172,288 | Yes |
|  | [The regulation of melanocyte stem cells by Wnt signaling](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8699417" \t "_blank) | General cutaneous research | $160,561 | Yes |
|  | [Mechanisms of Homeostasis and Invasive Cell Migration in Skin Tumorigenesis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8517009" \t "_blank)\* | Non-melanoma skin cancer | $236,549 | Yes |
|  | [Biogenesis of Melanosomes](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8438393" \t "_blank)\* | Melanoma  Other (Vitiligo) | $430,695 | Yes |
|  | [The Pharmacology of Dermal Fibrosis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8401849" \t "_blank) | Other (Hypertrophic disorders of skin) | $336,685 | Yes |
|  | [The regulation of melanocyte stem cells by Wnt signaling](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8509604" \t "_blank)\* | General cutaneous research | $361,238 | Yes |
| Northern California Institute/Res/Edu | [Role of vitamin D receptor in DNA repair](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8569938" \t "_blank) | General cutaneous research | $188,955 | Yes |
|  | [Vitamin D Receptor Coactivators in Keratinocytes](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8488410" \t "_blank) | General cutaneous research | $304,106 | Yes |
|  | [Calcium-sensing Receptor and Keratinocyte Differentiation](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8436129" \t "_blank) | General cutaneous research | $304,106 | Yes |
|  | [Melanocyte-Keratinocyte Cross-Talk In Relation To Barrier Function](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8471653" \t "_blank) | General cutaneous research | $304,106 | Yes |
|  | [Pathogenesis and Therapy of Ichthyosis in Disorders of Lipid Metabolism](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8434177" \t "_blank) | Other (Other epidermal thickening) | $316,778 | Yes |
|  | [S1P-Mediated Stimulation of Antimicrobial Defense](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8507601" \t "_blank) | Dermatitis including eczema  Bacterial skin diseases | $316,778 | Yes |
|  | [The Lipid and Tight Junction Epidermal Barriers are Interdependent](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8511569" \t "_blank) | Bacterial skin diseases | $158,389 | Yes |
| Northwestern University at Chicago | [Northwestern University Skin Disease Research Core Center](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8492036" \t "_blank) | Training & department/institute program | $579,500 | No |
|  | [Function of Desmoglein 1/Pemphigus Foliaceus Antigen](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8515331" \t "_blank) | Other (Other epidermal thickening) | $447,154 | Yes |
|  | [Functional and Structural Links between Cadherin, Gamma-Secretase, and Notch](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8469391" \t "_blank) | General cutaneous research | $312,930 | Yes |
|  | [Topical Delivery of siRNA Nanconjugates: Suppressing Epidermal Hyperplasia](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8433345" \t "_blank) | General cutaneous research | $325,066 | Yes |
|  | [Epha/Ephrin - A Signaling in Epidermal Differentiation and Disease](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8541694" \t "_blank) | General cutaneous research | $324,896 | Yes |
|  | [Desmoplakin Assembly and Function in Epidermis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8451594" \t "_blank) | General cutaneous research | $441,823 | Yes |
|  | [Post Graduate Program in Cutaneous Biology](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8448620" \t "_blank) | Training & department/institute program | $109,847 | No |
| Oregon Health & Science University | [The Role of the Skin Barrier in Atopic Dermatitis Development and Prevention](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8604539" \t "_blank)\* | Dermatitis including eczema | $994 | No |
|  | [The Role of the Skin Barrier in Atopic Dermatitis Development and Prevention](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8451395" \t "_blank)\* | Dermatitis including eczema | $127,980 | No |
|  | [Trim32 Regulation of Piasy in Skin Homeostasis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8461180" \t "_blank) | Psoriasis | $312,848 | Yes |
|  | [Montagna Symposium on the Biology of Skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8471056" \t "_blank) | Conference | $38,000 | No |
| Pachyonychia Congenita Project | [2013 International Pachyonychia Congenita Consortium (IPCC) Symposium](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8636235" \t "_blank) | Conference  Miscellaneous | $12,500 | No |
| Pennsylvania State University | [Development of Clinical Trials Outcome Instruments for Acne Vulgaris](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8580866" \t "_blank) | Acne vulgaris | $204,113 | No |
| Princeton University | [Regulation of Cell Polarity During Epidermal Growth and Homeostasis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8529194" \t "_blank) | General cutaneous research | $236,550 | Yes |
| RHBS-Robert Wood Johnson Medical School | [UMDNJ/Rutgers University CounterACT Research Center of Excellence](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8545525" \t "_blank) | Training & department/institute program  Miscellaneous | $2,369,028 | No |
| Rockefeller University | [Regulation of Quiescence and Activation in Skin Stem Cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8509979" \t "_blank) | General cutaneous research | $96,471 | Yes |
|  | [Mechanisms used by skin dendritic cells to induce regulatory T cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8460099" \t "_blank) | General cutaneous research | $95,593 | Yes |
|  | [Role of Primary Cilia During Epidermal Morphogenesis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8494575" \t "_blank) | General cutaneous research | $95,796 | Yes |
|  | [Regulation of Epidermal Development and Differentiation](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8471057" \t "_blank) | General cutaneous research | $573,687 | Yes |
|  | [Skin Stem Cells: Purification and Characterization](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8461613" \t "_blank) | General cutaneous research | $343,320 | Yes |
|  | [Origin and Function of Inflammatory Dendritic Cells in Psoriasis.](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8510576" \t "_blank) | Psoriasis | $362,306 | Yes |
|  | [Cell adhesion and cytoskeletal dynamics in skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8386937" \t "_blank) | General cutaneous research | $730,724 | Yes |
| Scarless Laboratories, Inc. | [A novel anti-scar peptide for cutaneous wound repair](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8455289" \t "_blank) | Other (Hypertrophic disorders of skin) | $199,740 | Yes |
| Scripps Research Institute | [ATP in Skin Immunity](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8581622" \t "_blank) | Other (Skin changes due to chronic exposure to nonionizing radiation) | $122,850 | Yes |
| Signum Biosciences | [A Topical Non-steroidal Anti-inflammatory for Atopic Dermatitis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8450681) | Dermatitis including eczema | $998,971 | No |
| Sloan-Kettering Inst Can Res | [The role of melanocyte precursors in zebrafish pigmentation disorders](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8423391" \t "_blank) | Melanoma | $126,900 | Yes |
|  | [THE FRAMINGHAM SCHOOL STUDY OF NEVI IN CHILDREN SONIC II](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8468117" \t "_blank) | Miscellaneous | $669,406 | No |
| Society for Investigative Dermatology | [SID Retreat for Future Academicians](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8462203" \t "_blank) | Conference | $25,000 | No |
| Stanford University | [Characterization of Homeostatic Regulators Disrupted in Epidermal Neoplasia](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8562474" \t "_blank) | Non-melanoma skin cancer | $125,604 | Yes |
|  | [Homeostatic Regulators Disrupted in Skin Carcinogenesis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8503150" \t "_blank) | Non-melanoma skin cancer | $330,543 | Yes |
|  | [Regulating Gli Function in Hair Follicle Progenitors](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8647650" \t "_blank) | Non-melanoma skin cancer | $340,401 | Yes |
|  | [Regulation of human skin homeostasis by histone arginine methylation regulators](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8448767" \t "_blank) | General cutaneous research | $55,670 | Yes |
|  | [Gene Regulatory Mechanisms of Epidermal Growth](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8464523" \t "_blank) | General cutaneous research | $403,274 | Yes |
|  | [Stromal Regulation of Basal Cell Carcinoma Formation](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8460142" \t "_blank) | Non-melanoma skin cancer | $344,324 | Yes |
|  | [Laminins in the Skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8467994" \t "_blank) | General cutaneous research | $326,571 | Yes |
|  | [Signaling Regulators of Epithelial Homeostasis and Neoplasia](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8464527" \t "_blank) | Non-melanoma skin cancer | $324,157 | Yes |
|  | [Gene Transfer for Recessive Dystrophic Epidermolysis Bullosa](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8529189" \t "_blank) | Other (Pemphigoid) | $615,434 | Yes |
|  | [Postgraduate Training Program in Epithelial Biology](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8468992) | Training & department/institute program | $157,528 | No |
| State University New York Stony Brook | [Cx26 mutations in syndromic deafness linked to skin disease](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8438425" \t "_blank) | General cutaneous research | $320,405 | Yes |
|  | [Planar Cell Polarity Signaling in Hair Follicle Formation](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8515204) | General cutaneous research | $334,368 | Yes |
| State University of New York at Buffalo | [Novel Genetic Models to Study the Role of DNp63 in Squamous Cell Carcinoma](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8585388" \t "_blank) | Non-melanoma skin cancer | $79,500 | Yes |
| Sunny Biodiscovery, Inc. | [Novel Skin Protectant Retinoid for the Treatment of Psoriasis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8449026" \t "_blank) | Psoriasis | $149,451 | Yes |
| SUNY Downstate Medical Center | [Mouse nude locus and skin development](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8490304" \t "_blank) | General cutaneous research | $324,021 | Yes |
| Surface Bioadvances, Inc. | [Bacterial fermentation in skin microbiome as probiotics (Bfismp) against S. aureu](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8452574" \t "_blank) | Bacterial skin diseases | $150,000 | Yes |
| Thomas Jefferson University | [Mechanism of skin-specific targeting of adult stem cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8630229" \t "_blank) | Other (Pemphigoid) | $329,375 | Yes |
|  | [Role of Desmosomal Adhesion in Carcinogenesis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8386930) | Non-melanoma skin cancer | $317,034 | Yes |
|  | [Mineralization/Anti-Mineralization Networks in the Skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8509607" \t "_blank) | Other (Other localized connective tissue disorders) | $150,587 | Yes |
|  | [TRAINING IN MOLECULAR DERMATOLOGY AND CUTANEOUS CONNECTIVE TISSUE DISEASES](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8461621" \t "_blank) | Training & department/institute program | $76,161 | No |
| Transderm, Inc. | [Pachyonychia congenita clinical trial using therapeutic self-delivery siRNAs](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8530953" \t "_blank) | Miscellaneous | $1,045,754 | Yes |
| Univ of Massachusetts Med Sch Worchester | [Use of comparative genomics to identify novel regulators of melanoma progression](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8579385" \t "_blank) | Melanoma | $353,813 | Yes |
|  | [Targeting IFN gamma and chemokines to treat vitiligo in a humanized mouse model](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8502440) | Other (Vitiligo) | $123,660 | Yes |
| Univ of North Carolina Chapel Hill | [Etiology and Pathogenesis of Pemphigus](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8579261) | Other (Pemphigus) | $323,000 | Yes |
|  | [Interactions of lgC4 & lgE anti-Dsg1 Autoantibodies in Endemic Pemphigus Foliaceu](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8693332" \t "_blank)\* | Other (Pemphigus) | $39,793 | Yes |
|  | [Interactions of lgC4 & lgE anti-Dsg1 Autoantibodies in Endemic Pemphigus Foliaceu](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8522259" \t "_blank)\* | Other (Pemphigus) | $109,322 | Yes |
|  | [Role of the matrix metalloproteinase in pemphigus autoantibody-mediated epidermal](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8478045) | Other (Pemphigus) | $284,715 | Yes |
| University of Alabama at Birmingham | [UAB Skin Diseases Research Center](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8538747) | Training & department/institute program | $485,498 | No |
|  | [Therapeutic Intervention of Lewisite-Mediated Cutaneous Blistering-Inflammation](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8544981) | Miscellaneous | $366,251 | Yes |
| University of Arizona | [GILT and regulation of Treg development in cutaneous autoimmunity](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8582162" \t "_blank) | Other (Vitiligo) | $75,750 | Yes |
| University of California | [Epigenetic Regulators in Epidermal Homeostasis and Neoplasia](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8386924) | Non-melanoma skin cancer | $125,361 | Yes |
|  | [Genetic Influence in Pediatric Psoriasis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8509605) | Psoriasis | $132,300 | Yes |
|  | [Proteolysis and Skin Antimicrobials](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8434753" \t "_blank) | Bacterial skin diseases | $331,313 | Yes |
|  | [UCSD Dermatologist Investigator Training Program](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8451411) | Training & department/institute program | $197,548 | No |
| University of California Berkeley | [Roles and functions of ion channels that mediate mammalian touch transduction.](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8461909) | General cutaneous research | $320,817 | Yes |
| University of California Davis | [Warmth enhancement of itch via TRPV4](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8509420) | Pruritus | $87,885 | Yes |
|  | [Galectin-3 in regulation of allergic skin inflammation](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8401847) | Dermatitis including eczema | $314,384 | Yes |
|  | [Neural mechanisms of itch](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8500209" \t "_blank) | Pruritus | $312,848 | Yes |
| University of California Irvine | [Molecular mechanisms of pulsed dye laser combined with topical rapamycin for port](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8425982) | Miscellaneous | $88,700 | No |
|  | [Phosphoinositide Signaling Regulates Melanogenesis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8456852)\* | Non-melanoma skin cancer | $331,957 | Yes |
|  | [Transcriptional Co-Regulatiors in Epidermis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8476898) | General cutaneous research | $319,730 | Yes |
|  | [Circadian Clock Regulation in Skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8624582" \t "_blank) | Non-melanoma skin cancer | $326,162 | Yes |
|  | [Phosphoinositide Signaling Regulates Melanogenesis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8683283)\* | Non-melanoma skin cancer | $48,532 | Yes |
|  | [Aldehyde dehydrogenase: A novel regulator of melanin biogenesis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8424830" \t "_blank) | General cutaneous research | $123,919 | Yes |
| University of California Los Angeles | [Characterization of the Lysogenic Pathway in P. acnes Bacteriophages](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8526192" \t "_blank) | Acne vulgaris | $20,553 | Yes |
|  | [Regulation of Langerhans Cell Migration by Invariant Gamma Delta T Cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8551372) | Other (Lupus erythematosus) | $124,470 | Yes |
|  | [Immunobiology of Leprosy](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8531865) | Leprosy | $1,409,483 | Yes |
|  | [CD1-restricted T Cell Responses in Skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8535076" \t "_blank) | Leprosy | $503,165 | Yes |
|  | [Innate Immunity in Acne Vulgaris](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8424319" \t "_blank) | Acne vulgaris | $244,717 | Yes |
|  | [Dermatology Scientist Training Program](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8514525) | Training & department/institute program | $172,328 | No |
| University of California San Francisco | [Identification of Causal Variants in Psoriasis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8584976" \t "_blank) | Psoriasis | $465,839 | Yes |
|  | Generation and maintenance of effector and regulatory T cells in the skin | General cutaneous research | $78,500 | Yes |
|  | [Genetic Analysis of the TNF Pathway in Psoriasis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8598626" \t "_blank)\* | Psoriasis | $1,000 | Yes |
|  | [Genetic Analysis of the TNF Pathway in Psoriasis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8507548" \t "_blank)\* | Psoriasis | $119,610 | Yes |
|  | [Mechanisms of immune regulation in the skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8448638" \t "_blank) | General cutaneous research | $125,685 | Yes |
|  | [Patient-Oriented Research in Skin Diseases](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8528470" \t "_blank) | Non-melanoma skin cancer | $182,524 | No |
|  | [Hedgehog signaling at the cell's antenna: Smoothened and the primary cilium](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8500569" \t "_blank) | General cutaneous research | $293,915 | Yes |
|  | [Cytokine Signaling in Neurons: Inflammation, Pain and Pruritis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8501382" \t "_blank) | Pruritus | $330,244 | Yes |
|  | [UCSF Dermatology Training Grant](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8464633" \t "_blank) | Training & department/institute program | $202,247 | No |
| University of Chicago | [Coordinated cytoskeletal dynamics in skin somatic stem cells - Resubmission 01](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8625508" \t "_blank) | General cutaneous research | $348,394 | Yes |
|  | [Epidemic CA-MRSA: Molecular Epidemiology and Immunology](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8457141" \t "_blank) | Bacterial skin diseases | $320,112 | Yes |
| University of Cincinnati | [Coordinated Regulation of Hair Growth and Pigmentation by Dermal Papilla Cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8518166" \t "_blank) | General cutaneous research | $74,575 | Yes |
| University of Colorado | [MicroRNA-mediated Regulation in Mammalian Skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8488415" \t "_blank) | General cutaneous research | $306,508 | Yes |
| University of Colorado Denver | [Genetic studies of vitiligo](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8578283" \t "_blank) | Other (Vitiligo) | $446,579 | Yes |
|  | [Targeting p53-Dependent Repigmentation in Vitiligo](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8510581" \t "_blank) | Other (Vitiligo) | $100,572 | Yes |
|  | [Molecular Analysis, Modeling and Correction of Skin Diseases](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8519055" \t "_blank) | Training & department/institute program | $596,840 | No |
|  | [Vitiligo](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8534707" \t "_blank) | Other (Vitiligo) | $386,021 | Yes |
|  | [Testing the Therapeutic Potential of iPS Cells for Inherited Skin Diseases](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8546231" \t "_blank) | Other (Pemphigoid) | $327,661 | Yes |
|  | [The consequences of loricrin deficiency on epidermal barrier function](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8488416" \t "_blank) | Dermatitis including eczema  Other (Pemphigoid) | $313,443 | No |
|  | [The role of p63 in hair follicle stem cells and cancer](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8489109" \t "_blank) | Non-melanoma skin cancer | $318,881 | Yes |
| University of Iowa | [Regulation of the melanocyte lineage by the AP2 transcription factor family](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8506691" \t "_blank) | General cutaneous research | $319,972 | Yes |
|  | [Controlling the Mechanobiology of Cutaneous Wounds to Reduce Hypertrophic Scar](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8583203" \t "_blank) | Other (Hypertrophic disorders of skin) | $75,500 | Yes |
| University of Kentucky | [Non-contact Diffuse Optical Assessment of Pressure Ulcer and Therapy](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8425042" \t "_blank) | Decubitus ulcer | $156,387 | No |
| University of Maryland Baltimore | [Keratoderma- an Exploratory Study](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8588676" \t "_blank) | Other (Other epidermal thickening) | $163,094 | Yes |
| University of Michigan | [Biologic Activities of IL-36 Cytokines in Psoriasis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8563855" \t "_blank) | Psoriasis | $101,142 | Yes |
|  | [The Role of Innate Immunity in Systemic and Cutaneous Lupus](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8423448" \t "_blank) | Other (Lupus erythematosus) | $128,232 | Yes |
|  | [Functional Genomics of Psoriasis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8584350" \t "_blank) | Psoriasis | $470,734 | Yes |
|  | [Mechanisms of Altered Skin Re-Epithelialization in Aging](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8502171" \t "_blank) | General cutaneous research | $96,760 | Yes |
|  | [Role of the Psoriasis Associated IL23R Risk Variants on Th17 Biology and Function](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8455694" \t "_blank) | Psoriasis | $126,900 | Yes |
|  | [Characterizing the Cells of Origin for Basal Cell Carcinoma](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8502244" \t "_blank) | Non-melanoma skin cancer | $233,460 | Yes |
|  | [Linkage Analysis of Familial Psoriasis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8535074" \t "_blank) | Psoriasis | $592,896 | Yes |
|  | [Molecular Regulation of Hair Follicle Morphogenesis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8460764" \t "_blank) | General cutaneous research | $319,086 | Yes |
|  | [Role of Mast Cells in NLRP3-Mediated Skin Inflammation](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8506980" \t "_blank) | General cutaneous research | $319,086 | Yes |
|  | [TRP Ca2+ Channels in the Skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8529459" \t "_blank) | Non-melanoma skin cancer | $322,870 | Yes |
| University of Minnesota | [Skin-targeted Cell Therapy for Recessive Dystrophic Epidermolysis Bullosa](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8502074" \t "_blank) | Other (Pemphigoid) | $458,962 | Yes |
|  | [Role of Langerhans Cells in the Cutaneous Immune System](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8443441" \t "_blank) | General cutaneous research | $299,937 | Yes |
|  | [Regulated Activation of Latent-TGFb Determines Langerhans Cell Migration](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8508067" \t "_blank) | General cutaneous research | $322,763 | Yes |
|  | [Identification of a Keratinocyte Stem Cell Regulatory Gene in the KSC2 Locus](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8508187" \t "_blank) | General cutaneous research | $326,539 | Yes |
| University of Pennsylvania | [Psoriasis and the risk of diabetes](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8486996" \t "_blank) | Psoriasis | $162,474 | No |
|  | [HDAC functions in skin development, renewal and disease](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8505758" \t "_blank) | Non-melanoma skin cancer | $340,000 | Yes |
|  | [Hair follicle neogenesis in response to wounding](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8505685" \t "_blank) | General cutaneous research | $340,000 | Yes |
|  | [Migration of Skin Antibody Secreting Cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8510380" \t "_blank) | General cutaneous research | $53,942 | Yes |
|  | [Core Center](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8499260" \t "_blank) | Training & department/institute program | $608,000 |  |
|  | [Cloning and genetics of human pemphigus autoantibodies](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8501378" \t "_blank) | Other (Pemphigus) | $342,000 | Yes |
|  | [Characterization of neural crest stem cells in human hair follicles.](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8449119" \t "_blank) | General cutaneous research | $319,958 | Yes |
|  | [Regulation of T cell egress from inflamed skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8477130" \t "_blank) | General cutaneous research | $325,037 | Yes |
|  | [Filaggrin Mutations and the Prognosis of Atopic Dermatitis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8242639" \t "_blank) | Dermatitis including eczema | $297,498 | No |
|  | [Role of autoantibody isotype in pemphigus pathogenesis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8449190" \t "_blank) | Other (Pemphigus) | $334,703 | Yes |
|  | [WNT signals in skin and hair development and hair growth](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8507841" \t "_blank) | General cutaneous research | $342,000 | Yes |
|  | [Dermatology Research Training Grant](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8468116" \t "_blank) | Training & department/institute program | $280,794 | No |
| University of Pittsburgh at Pittsburgh | [Investigating the Neural Circuits of Itch](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8417905" \t "_blank) | Pruritus | $324,063 | Yes |
|  | [Using dual intersectional genetics to understand and modulate itch](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8490842) | Pruritus | $194,438 | Yes |
|  | [T-helper cell cytokine profile in localized scleroderma](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8598693)\* | Other (Other localized connective tissue disorders) | $693 | Yes |
|  | [T-helper cell cytokine profile in localized scleroderma](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8528476" \t "_blank)\* | Other (Other localized connective tissue disorders) | $125,679 | Yes |
|  | [The role of Atoh1 in the development and function of Merkel cells](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8490166" \t "_blank) | General cutaneous research | $308,836 | Yes |
| University of Rochester | [NF kappa B Activity in Skin Inflammation and Carcinogenesis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8514524) | General cutaneous research | $120,922 | Yes |
|  | [Training Grant in Dermatology](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8467998" \t "_blank) | Training & department/institute program | $212,813 | No |
| University of Southern California | [Development and Regeneration of Skin Appendages](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8464525) | General cutaneous research | $439,908 | Yes |
|  | [Pattern Formation During Skin Organogenesis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8543624" \t "_blank) | General cutaneous research | $350,639 | Yes |
|  | [Development of Extracellular Heat Shock Protein-90 as a Novel Topical Wound Heali](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8461910" \t "_blank) | General cutaneous research | $346,275 | Yes |
|  | [Tissue Engineering of New Hair Formation](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8530017" \t "_blank) | General cutaneous research | $332,424 | Yes |
|  | [Activator Inhibitor interactions in the cyclic regeneration of hair follicle stem](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8497629" \t "_blank) | General cutaneous research | $350,550 | Yes |
|  | [Isolation and characterization of new adult stem cells from sweat glands](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8454545" \t "_blank) | General cutaneous research | $76,950 | Yes |
| University of Tennessee Health Sci Ctr | [Role of exogenous melatonin in skin biology](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8476985" \t "_blank) | General cutaneous research | $316,350 | Yes |
| University of Toledo Health Sci Campus | [Regulation of Melanocyte Differentiation by SWI/SNF Chromatin Remodeling Enzymes](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8471062" \t "_blank) | General cutaneous research | $307,390 | Yes |
| University of Virginia | [Regulation of TSLP receptor expression and function in eczema in mice and man](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8460063" \t "_blank) | Dermatitis including eczema | $515,908 | Yes |
| University of Washington | [The replication checkpoint and genomic fidelity in skin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8438257" \t "_blank) | Non-melanoma skin cancer | $334,455 | Yes |
|  | [Keratin Gene Targeting for the Treatment of Epidermolysis Bullosa](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8401502" \t "_blank) | Other (Pemphigoid) | $302,236 | Yes |
|  | [Training for Investigative Dermatology](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8494572" \t "_blank) | Training & department/institute program | $148,770 | No |
| University of Wisconsin-Madison | [RNA-binding protein CRD-BP in melanocyte biology](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8437734" \t "_blank) | General cutaneous research | $316,379 | Yes |
|  | [18th Annual Meeting of the PanAmerican Society of Pigment Cell Research](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8597622" \t "_blank) | Conference | $24,000 | No |
|  | [Role of Polo-Like Kinase-1 in Melanocytic Transformation](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8492041" \t "_blank) | Melanoma | $303,130 | Yes |
|  | [Caspase-14 and the Treatment of Psoriasis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8509601" \t "_blank) | Psoriasis | $304,722 | Yes |
|  | [Autophagy in epidermal melanocyte: a protective or a destructive role?](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8496721" \t "_blank) | General cutaneous research | $164,913 | Yes |
|  | [The Cutaneous Biology of MAGE Transcription Factors](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8497632" \t "_blank) | Melanoma | $160,847 | No |
|  | [Identification of Dysregulated Stress Response Mechanisms in Chronic Urticaria](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8543629" \t "_blank) | Urticaria | $193,016 | No |
|  | [Investigative Dermatology Training Program at University of Wisconsin-Madison](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8461168" \t "_blank) | Training & department/institute program | $220,580 | No |
| UT MD Anderson Cancer Ctr | [Keratinocyte Activation by Slug-induced Calprotectin](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8432042" \t "_blank) | General cutaneous research | $202,635 | Yes |
| UT Southwestern Medical Center | [Molecular Markers in Discoid Lupus Erythematous](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8500214" \t "_blank) | Other (Lupus erythematosus) | $123,012 | Yes |
|  | [Striatal Dopamine Release in Response to Ultraviolet Light in Compulsive Tanners](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8519310" \t "_blank) | Other (Skin changes due to chronic exposure to nonionizing radiation) | $169,931 | No |
| Vanderbilt University Med Ctr | [Linking Lipoxygenases with Essential Fatty Acids and Epidermal Barrier Formation](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8486396" \t "_blank) | Other (Other epidermal thickening) | $333,450 | Yes |
|  | [Skin Regeneration with Stem Cells and Scaffolds](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8508674" \t "_blank) | General cutaneous research | $601,177 | Yes |
|  | [The role of microRNA miR-31 in skin biology](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8481191" \t "_blank) | General cutaneous research | $333,450 | Yes |
| Wake Forest University Health Sciences | [Regulation of Itch Scratching by Spinal GRP Receptors in Primates](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8492849" \t "_blank) | Pruritus | $195,075 | Yes |
|  | [Behavioral Pharmacology of Itch](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8521083" \t "_blank) | Pruritus | $314,469 | Yes |
| Washington University | [Smart Laser Treatment of Port-Wine Stain in Children](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8515337" \t "_blank) | Miscellaneous | $86,865 | No |
|  | [Molecular Mechanisms of the Itch Sensation in the Spinal Cord](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8453255" \t "_blank) | Pruritus | $308,785 | Yes |
| Yale University | [Skin Development Analysis in Mutant Mouse Lines](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8460927" \t "_blank) | General cutaneous research | $355,716 | Yes |
|  | [Extrinsic Regulation of Epidermal Homeostatasis](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8460545" \t "_blank) | General cutaneous research | $355,716 | Yes |
|  | [Mechanisms of Genetic Reversion in Ichthyosis With Confetti](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8522261" \t "_blank) | Other (Other epidermal thickening) | $355,894 | Yes |
|  | [Live Imaging of Skin Regeneration](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8541695" \t "_blank) | General cutaneous research | $355,894 | Yes |
|  | [Dermatology Training Grant](http://projectreporter.nih.gov/project_info_description.cfm?icde=0&aid=8501372" \t "_blank) | Training & department/institute program | $226,521 | No |

\* Distinct grants despite having same title

**Table S2. 15 Skin conditions studied by GBD 2010 and grant title or abstract terms supporting inclusion**

|  |  |
| --- | --- |
| **Skin Condition (ICD-10 codes)a** | **Grant Title or Abstract Terms** |
| Dermatitis including eczema (L20-L27)b | “eczema” “dermatitis” “atopic dermatitis” “contact dermatitis” “irritant contact dermatitis”  “allergic contact dermatitis” “exfoliative dermatitis” “diaper dermatitis” “seborrheic dermatitis” |
| Acne vulgaris (L70) | “acne vulgaris” “acne” |
| Bacterial skin diseases (L00,L01, L02, L04, L08, L88,L97, L98.0-L98.4) | “staphylococcal scalded skin syndrome” “impetigo” “cutaneous abscess/furuncle/ carbuncle” “lymphadenitis” “pyoderma” “erythrasma” “bacteria skin” |
| Viral skin diseases (B00, B07-B09) | “herpes” “viral warts” “molluscum contagiosum” “exanthema subitum” “viral” and “skin” |
| Urticaria (L50) | “urticaria” |
| Fungal skin diseases (B35, B36.0, B36.1, B36.2, B36.3, B36.8, B36.9) | “fungal” and “skin” “candidiasis” “tinea” |
| Pruritus (L29) | “pruritus” “itch” |
| Scabies (B66) | “scabies” |
| Alopecia areata (L63.0, L63.1, L63.8, L63.9) | “alopecia areata” |
| Cellulitis (L03.0, L03.1, L03.2-L03.9) | “cellulitis” |
| Decubitus ulcer (L89) | “decubitus ulcer” “pressure wound” |
| Melanoma (C43) | “melanoma” |
| Psoriasis (L40, L41) | “psoriasis” |
| Non-melanoma skin cancer (C44, D04) | “non-melanoma skin cancer” “basal cell carcinoma” “squamous cell carcinoma” |
| Leprosy (A30) | “leprosy” |

a See reference 11

\*excluded L28 (lichen simplex chronicus and prurigo)

**Table S3. “Other skin and subcutaneous diseases” studied by GBD 2010 and grant title or abstract terms supporting inclusion**

|  |  |
| --- | --- |
| **GBD “other skin and subcutaneous diseases” category (ICD-10 code)a** | **Abstract/project terms supporting inclusion** |
| Pediculosis and phthiriasis (B85) | “pediculosis” “phthiriasis” |
| Myiasis (B87) | “myiasis” |
| Other infestations (B88) | “ acariasis” “tungiasis” or “sandflea” “scarabiasis” or “arthropod” “hirudiniasis” or “leech” “ichthyoparasitism” “vandellia cirrhosa” “linguatulosis” “porocephaliasis” “skin infestation” “mites” “skin parasites” |
| Pilonidal cyst with and without abscess (L05.0 and L05.9) | “pilonidal cyst” |
| Pemphigus (L10) | “pemphigus” |
| Other acantholytic disorders (L11) | “keratosis follicularis” “acantholytic dermatosis” “acantholytic” |
| Pemphigoid (L12) | “pemphigoid” “bullous” or “bulla” “epidermolysis bullosa” |
| Other bullous disorders (L13) | “dermatitis herpetiformis” “subcorneal pustular dermatitis” “bullous” “bulla” |
| Lichen simplex chronicus and prurigo (L28) | “lichen simplex chronicus” “prurigo” |
| Other dermatitis (L30) | “nummular dermatitis” “dyshidrosis” “cutaneous autosensitization” “infective dermatitis” “erythema intertrigo” “pityriasis alba” |
| Pityriasis rosea (L42) | “pityriasis rosea” |
| Lichen planus (l42) | “lichen planus” |
| Other papulosquamous disorders (L44) | “pityriasis rubra pilaris” “lichen nitidus” “lichen striatus” “lichen ruber moniliformis” “infantile papular acrodermatitis” or “Giannotti-Crosti” “papulosquamous” |
| Erythema multiforme (L51) | “erythema multiforme” “Stevens Johnson” |
| Erythema nodosum (L52) | “erythema nodosum” |
| Other erythematous conditions (L53) | “toxic erythema” “erythema annulare centrifugum” “erythema marginatum” “chronic figurate erythema” |
| Sunburn (L55) | “sunburn” |
| Other acute skin changes due to ultraviolet radiation (L56) | “drug phototoxic” “drug photoallergic” “photocontact dermatitis” “solar urticaria” “polymorphous light eruption” “acute” and “UV” or “ultraviolet” |
| Skin changes due to chronic exposure to nonionizing radiation (L57) | “actinic keratosis” “actinic reticuloid” “cutis rhomboidalis nuchae” “poikiloderma of Civatte” “cutis laxa senilis” “actinic granuloma” “nonionizing radiation” “wrinkles” “chronic” and “UV” or “ultraviolet” “tanning” |
| Radiodermatitis (L58) | “radiodermatitis” |
| Other disorders of skin and subcutaneous tissue related to radiation (L59) | “erythema ab igne” “dermatitis ab igne” |
| Nail disorder (L60) | “nail” “ingrowing” “onycholysis” “onychogryphosis” “Beau lines” “yellow nail syndrome” |
| Androgenic alopecia (L64) | “androgenic alopecia” |
| Other nonscarring hair loss (L65) | “telogen effluvium” “anagen effluvium” “alopecia mucinosa” “nonscarring” “hair loss” “alopecia” |
| Cicatricial alopecia (scarring hair loss) (L66) | “pseudopelade” “lichen planopilaris” “folliculitis decalvans” “perifolliculitis capitis abscedens” “folliculitis ulerythematosa reticulate” “cicatricial” “scarring” “hair loss” “alopecia” |
| Hair color and hair shaft abnormalities (L67) | “trichorrhexis nodosa” “hair color” “hair shaft” |
| Hypertrichosis  (L68) | “hirsutism” “hypertrichosis” “polytrichia” |
| Rosacea (L71) | “rosacea” “perioral dermatitis” “rhinophyma” |
| Follicular cysts of skin and subcutaneous tissue (L72) | “cyst” “follicular” “epidermal” “trichilemmal” “steatocystoma” |
| Other follicular disorders (L73) | “acne keloid” “pseudofolliculitis barbae” “hidradenitis suppurativa” |
| Eccrine sweat disorders (L74) | “eccrine sweat” “miliaria” “anhydrosis” |
| apocrine sweat disorder (L75) | “apocrine sweat” “bromhidrosis” “chromhidrosis”  “apocrine miliaria” |
| Vitiligo (L80) | “vitiligo” |
| Other disorders of pigmentation (L81) | “hyperpigmentation” “chloasma” “freckles” “café au lait spots” “leukoderma” “hypopigmentation” [excluding “vitiligo] “pigmented purpuric dermatosis” “iron pigmentation” “tattoo pigmentation” |
| Seborrhoeic keratosis (L82) | “seborrhoeic keratosis” |
| Acanthosis nigricans (L83) | “acanthosis nigricans” |
| Corns and callosities (L84) | “corn” “callous” |
| Other epidermal thickening (L85) | “(acquired) icthyosis” “keratoderma” “(acquired)keratosis” “xerosis cutis” “epidermal thickening” |
| Transepidermal elimination disorders (L87) | “keratosis follicularis et parafollicularis in cutem penetrans” “reactive perforating collagenosis” “elastosis perforans serpiginosa” “transepidermal” |
| Atrophic disorders of skin (L90) | “lichen sclerosis” “anetoderma” “atrophoderma” “acrodermatitis chronica atrophicans” “adherent scar” “cicatrix” “striae atrophicae” |
| Hypertrophic disorders of skin (L91) | “hypertrophic scar” “keloid” |
| Granulomatous disorders of skin and subcutaneous tissue (L92) | “granuloma annulare” “necrobiosis lipoidica” “granuloma faciale” “eosinophilic granuloma of skin” “foreign body granuloma” and “skin” |
| Lupus erythematosus (L93) | “discoid” “cutaneous” and “lupus” “local” and “lupus” |
| Other localized connective tissue disorders (L94) | “localized scleroderma” “morphea” “linear scleroderma” “calcinosis cutis” “sclerodactyly” “Gottron papules” “poikiloderma vasculare atrophicans” “ainhum” |
| L95: Vasculitis limited to skin, not elsewhere classified (L95) | “livedoid vascultitis” “erythema elevatum diutinum” “vasculitits” and “skin” |

a See reference 11

**Table S4. Additional categories and grant title or abstract terms supporting inclusion**

|  |  |
| --- | --- |
| **Category** | **Abstract/project terms supporting inclusion** |
| Training & department/institution program | “dermatology” and “training” (excludes conference-specific training; excludes training of one individual outside of a designated program) |
| Conference | “skin/dermatology” and “conference/symposium” “retreat” dates and place of event given |
| Other miscellaneous skin diseases (not in other GBD category) | “pachyonychia congenita” “port wine stain” “hemangioma” “melanocytic nevi” vesicant induced skin injury including but not limited to: “lewsite-mediated cutaneous blistering-inflammation ” “nitrogen mustard-related nitrosureas” induced skin injury |