Stanford



Alfred Lane

Professor of Dermatology and of Pediatrics at the Stanford University Medical Center, Emeritus

CONTACT INFORMATION

- **Alternate Contact**

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Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty-Med Ctr Line, Dermatology
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Chair Department of Dermatology, Stanford University School of Medicine - Dermatology, (1995-2010)

HONORS AND AWARDS

- Department of Pediatrics Award for Outstanding in Study and Care of Children, The Ohio State University (1973)
- Assoc Award: Outstanding scientific knowledge, sound clinical judgment & excellent human relations, Children's Hospital of Los Angeles (1976)
- The Best Doctors in America, Naifeh, S., Smith, G.W. Woodward/White (1992-)
- Franklin G. Ebaugh Jr. Award for Advising Medical Students, Stanford School of Medicine (June 12, 2005)

PROFESSIONAL EDUCATION

- Bachelor of Science, University of Dayton , Pre-Medicine (1969)
- Doctor of Medicine, The Ohio State University , Medicine (1973)
- Master of Arts, Santa Clara University , Spirituality (2004)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Developing gene therapy for genetic skin diseases in children is a major focus of the Department of Dermatology. Specifically our efforts are on correcting the cutaneous basement membrane zone defects in epidermolysis bullosa. This requires coordination of the basic research and clinical care. Prior to developing gene therapy, we are creating better methods to give effective and efficient care to infants and children with rare and disabling genetic skin diseases including epidermolysis bullosa and ichthyosis. We are focused on giving comprehensive skin care in an environment that is supportive for the individual families as well as the communities of families with similar diseases. Additional programs are being developed for infants

and children with unusual and difficult to manage vascular malformations by coordinating teams of specialist who are focused on developing better methods to care for infants and children with these conditions.

I am also interested in clinical studies within the Neonatal Intensive Care Unit which include methods to understand the physiology and function of premature infant skin which is extremely fragile, easily injured and traumatized. We are interested in the ability of topical applications of products to protect and heal the premature infant's skin.

Ambulatory clinical studies include efforts to improve care of infants and children with atopic dermatitis. Clinical trials in other childhood skin diseases are also done.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Dermatology (Fellowship Program)

Publications

PUBLICATIONS

- **Safety and Wound Outcomes Following Genetically Corrected Autologous Epidermal Grafts in Patients With Recessive Dystrophic Epidermolysis Bullosa.** *JAMA*
  Siprashvili, Z., Nguyen, N. T., Gorell, E. S., Loutit, K., Khuu, P., Furukawa, L. K., Lorenz, H. P., Leung, T. H., Keene, D. R., Rieger, K. E., Khavari, P., Lane, A. T., Tang, et al
  2016; 316 (17): 1808-1817

- **Phase I clinical trial for Recessive Dystrophic Epidermolysis Bullosa using genetically corrected autologous keratinocytes**
  Siprashvili, Z., Nguyen, N. T., Gorell, E. S., Loutit, K., Khuu, P., Furukawa, L. K., Lorenz, H. P., Leung, T. H., Keene, D., Rieger, K., Khavari, P. A., Lane, A., Tang, et al
  ELSEVIER SCIENCE INC.2016: S65

- **Transdermal Delivery of Functional Collagen Via Polyvinylpyrrolidone Microneedles** *ANNALS OF BIOMEDICAL ENGINEERING*
  Sun, W., Inayathullah, M., Manoukian, M. A., Malkovskiy, A. V., Manickam, S., Marinkovich, M. P., Lane, A. T., Tayebi, L., Seifalian, A. M., Rajadas, J.
  2015; 43 (12): 2978-2990

- **Evaluation of Treatments for Pruritus in Epidermolysis Bullosa.** *Pediatric dermatology*
  Danial, C., Adeduntan, R., Gorell, E. S., Lucky, A. W., Paller, A. S., Bruckner, A. L., Pope, E., Morel, K. D., Levy, M. L., Li, S., Gilmore, E. S., Lane, A. T.
  2015; 32 (5): 628-634

- **Purified Type I Collagen Wound Matrix Improves Chronic Wound Healing in Patients with Recessive Dystrophic Epidermolysis Bullosa** *PEDIATRIC DERMATOLOGY*
  Gorell, E. S., Leung, T. H., Khuu, P., Lane, A. T.
  2015; 32 (2): 220-225

- **Prevalence and characterization of pruritus in epidermolysis bullosa.** *Pediatric dermatology*
  Danial, C., Adeduntan, R., Gorell, E. S., Lucky, A. W., Paller, A. S., Bruckner, A., Pope, E., Morel, K. D., Levy, M. L., Li, S., Gilmore, E. S., Lane, A. T.
  2015; 32 (1): 53-59

- **Human COL7A1-corrected induced pluripotent stem cells for the treatment of recessive dystrophic epidermolysis bullosa** *SCIENCE TRANSLATIONAL MEDICINE*
  Sebastiano, V., Zhen, H. H., Derafshi, B. H., Bashkirova, E., Melo, S. P., Wang, P., Leung, T. L., Siprashvili, Z., Tichy, A., Li, J., Ameen, M., Hawkins, J., Lee, et al
  2014; 6 (264)

- **Human COL7A1-corrected induced pluripotent stem cells for the treatment of recessive dystrophic epidermolysis bullosa.** *Science translational medicine*

Sebastiano, V., Zhen, H. H., Haddad, B., Bashkirova, E., Melo, S. P., Wang, P., Leung, T. L., Siprashvili, Z., Tichy, A., Li, J., Ameen, M., Hawkins, J., Lee, et al
2014; 6 (264): 264ra163-?

- **An open-label study to evaluate sildenafil for the treatment of lymphatic malformations.** *Journal of the American Academy of Dermatology*
  Danial, C., Tichy, A. L., Tariq, U., Swetman, G. L., Khuu, P., Leung, T. H., Benjamin, L., Teng, J., Vasanawala, S. S., Lane, A. T.
  2014; 70 (6): 1050-1057
- **Characterizing the relationship between free drug samples and prescription patterns for acne vulgaris and rosacea.** *JAMA dermatology*
  Hurley, M. P., Stafford, R. S., Lane, A. T.
  2014; 150 (5): 487-493
- **Corrected patient-specific, iPSC-derived epithelial sheets for dystrophic epidermolysis bullosa**
  Sebastiano, V., Zhen, H., Wang, P., Haddad, B., Bashkirova, E., Ameen, M., Siprashvili, Z., Melo, S., Li, J., Kim, S., Lane, A., Wernig, M., Oro, et al
  NATURE PUBLISHING GROUP.2014: S79
- **Characterizing the relationship between free drug samples and prescription patterns for acne vulgaris and rosacea.** *JAMA dermatology*
  Hurley, M. P., Stafford, R. S., Lane, A. T.
  2014; 150 (5): 487-493
- **Gene Therapy for Skin Diseases** *COLD SPRING HARBOR PERSPECTIVES IN MEDICINE*
  Gorell, E., Ngon Nguyen, N., Lane, A., Siprashvili, Z.
  2014; 4 (4)
- **The availability of free samples of acne medications increases the prescription of more expensive, branded drugs in lieu of generic alternatives** *75th Annual Meeting of the Society-for-Investigative-Dermatology*
  Hurley, M., Stafford, R., Lane, A.
  NATURE PUBLISHING GROUP.2012: S45–S45
- **Successful Investigational New Drug Preparation without Reinventing the Wheel** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
  Gorell, E. S., Tichy, A. L., Lane, A. T.
  2011; 131 (5): 996-998
- **Long-Term Type VII Collagen Restoration to Human Epidermolysis Bullosa Skin Tissue** *HUMAN GENE THERAPY*
  Siprashvili, Z., Nguyen, N. T., Bezchinsky, M. Y., Marinkovich, M. P., Lane, A. T., Khavari, P. A.
  2010; 21 (10): 1299-1310
- **The integrity of the dermatology National Resident Matching Program: Results of a national study** *J Am Acad Dermatol*
  Sbicca, Gorell, Kanzler, lane
  2010; 63 (4): 594-601
- **Vitamin D deficiency in the San Francisco bay area** *JOURNAL OF PEDIATRIC ENDOCRINOLOGY & METABOLISM*
  McAllister, J. C., Lane, A. T., Buckingham, B. A.
  2006; 19 (3): 205-208
- **TOPICAL OINTMENT THERAPY HAS SYSTEMIC BENEFIT FOR PREMATURE-INFANTS**
  NOPPER, A. J., HORII, K., SOOKDEODROST, S., MANCINI, A. J., LANE, A. T.
  WILLIAMS & WILKINS.1994: A243
- **Measurement of skin adhesion in recessive dystrophic epidermolysis bullosa patients** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*
  Nazaroff, J., Manoukian, M., Barriga, M., Lane, A., Marinkovich, M., Tang, J. Y.
  2021; 85 (2): 491-492
- **Diaper dermatitis prevalence and severity: Global perspective on the impact of caregiver behavior.** *Pediatric dermatology*
  Carr, A. N., DeWitt, T., Cork, M. J., Eichenfield, L. F., Folster-Holst, R., Hohl, D., Lane, A. T., Paller, A., Pickering, L., Taieb, A., Cui, T. Y., Xu, Z. G., Wang, et al
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- **Measurement of Skin Adhesion in Recessive Dystrophic Epidermolysis Bullosa Patients.** *Journal of the American Academy of Dermatology*
  Nazaroff, J., Manoukian, M., Barriga, M., Lane, A., Marinkovich, M. P., Tang, J. Y.

2018

- **Phase I/IIa clinical trial for recessive dystrophic epidermolysis bullosa using EB-101 (COL7A1 gene-corrected autologous keratinocytes)**
  Siprashvili, Z., Nguyen, N. T., Gorell, E. S., Loutit, K., Dutt-Singkh, Y., Nazaroff, J., Khuu, P., Furukawa, L., Lorenz, H. P., Leung, T. H., Keene, D. R., Rieger, K. E., Khavari, et al
  MARY ANN LIEBERT, INC.2017: A10

- **Phase I/IIa clinical trial for recessive dystrophic epidermolysis bullosa using genetically corrected autologous keratinocytes**
  Siprashvili, Z., Nguyen, N., Gorell, E., Loutit, K., Dutt-Singkh, Y., Nazaroff, J., Khuu, P., Furukawa, L., Lorenz, H., Leung, T., Keene, D., Rieger, K., Khavari, et al
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- **Characterization of patients with dystrophic epidermolysis bullosa for collagen VII therapy** *BRITISH JOURNAL OF DERMATOLOGY*
  Gorell, E. S., Nguyen, N., Siprashvili, Z., Marinkovich, M. P., Lane, A. T.
  2015; 173 (3): 821–23

- **Phase I clinical trial for recessive dystrophic epidermolysis bullosa using genetically corrected autologous keratinocytes**
  Siprashvili, Z., Nguyen, N. T., Gorell, E., Loutit, K., Khuu, P., Furukawa, L. K., Lorenz, H. P., Leung, T. H., Keene, D. R., Khavari, P., Lane, A., Tang, J. Y., Marinkovich, et al
  NATURE PUBLISHING GROUP.2015: S72

- **Instrument for Scoring Clinical Outcome of Research for Epidermolysis Bullosa: A Consensus-Generated Clinical Research Tool** *PEDIATRIC DERMATOLOGY*
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  2015; 32 (1): 41–52

- **Phase 1 clinical trial of genetically corrected autologous epidermal keratinocytes for recessive dystrophic epidermolysis bullosa**
  Siprashvili, Z., Nguyen, N. T., Gorell, E., Khuu, P., Furukawa, L., Lorenz, H. P., Leung, T. H., Keene, D. R., Khavari, P., Marinkovich, M., Lane, A. T.
  NATURE PUBLISHING GROUP.2014: S75

- **Eczema and sensitization to common allergens in the United States: a multiethnic, population-based study.** *Pediatric dermatology*
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- **Polyvinylpyrrolidone microneedles enable delivery of intact proteins for diagnostic and therapeutic applications** *ACTA BIOMATERIALIA*
  Sun, W., Araci, Z., Inayathullah, M., Manickam, S., Zhang, X., Bruce, M. A., Marinkovich, M. P., Lane, A. T., Milla, C., Rajadas, J., Butte, M. J.
  2013; 9 (8): 7767-7774

- **An investigational study to evaluate sildenafil for the treatment of lymphatic malformations** *International Investigative Dermatology Meeting*
  Danial, C., Tichy, A., Tariq, U., Swetman, G. L., Khuu, P., Leung, T., Teng, J., VASANAWALA, S., Lane, A.
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- **A follow-up survey of the integrity of the dermatology National Resident Matching Program** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*
  Sbicca, J. A., Gorell, E. S., Peng, D. H., Lane, A. T.
  2012; 67 (3): 429-435

- **Therapies for dystrophic epidermolysis bullosa require close evaluation for development of antibodies to type VII collagen** *75th Annual Meeting of the Society-for-Investigative-Dermatology*
  Gorell, E. S., Nguyen, N., Siprashvili, Z., Marinkovich, P., Lane, A.
  NATURE PUBLISHING GROUP.2012: S68–S68

- **Applying for dermatology residency is difficult and expensive** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*
  Tichy, A. L., Peng, D. H., Lane, A. T.
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- **Sildenafil for Severe Lymphatic Malformations** *NEW ENGLAND JOURNAL OF MEDICINE*
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- **Diagnosis of Pilomatricoma Using an Otoscope** *PEDIATRIC DERMATOLOGY*
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- **Cause-specific mortality in patients with severe psoriasis** *BRITISH JOURNAL OF DERMATOLOGY*
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- **Acquired Bilateral Agminated Spitz Nevi in a Child with Langerhans Cell Histiocytosis** *PEDIATRIC DERMATOLOGY*
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- **Association of IgE levels and eczema in the US population: Results from NHANES 2005-2006**
  Fu, T., Keiser, E., Linos, E., Kanzler, M., Sainani, K., Lane, A., Tang, J.
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- **Support groups for children and their families in pediatric dermatology** *PEDIATRIC DERMATOLOGY*
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- **Treatment decision-making for patients with the Herlitz subtype of junctional epidermolysis bullosa** *JOURNAL OF PERINATOLOGY*
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- **Pharmaceutical support of dermatology residency electives: slippery slope or synergy?** *The virtual mentor : VM*
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- **Diffuse morbilliform eruption after consumption of ginkgo biloba supplement** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*
  Chiu, A. E., Lane, A. T., Kimball, A. B.
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- **A young boy with a large hemifacial plaque with histopathologic features of trichoepithelioma** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*
  Oh, D. H., Lane, A. T., Turk, A. E., Kohler, S.
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- **Efficacy and safety of topical steroids in paediatric atopic dermatitis**
  Lane, A. T.
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- **Topical ointment therapy benefits premature infants** *JOURNAL OF PEDIATRICS*
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