

Melissa C Leeolou

- MD Student with Scholarly Concentration in Bioengineering, expected graduation Spring 2026
- Masters Student in Epidemiology and Clinical Research, admitted Autumn 2023

Publications

PUBLICATIONS

- **The Role of Pharmacy Benefit Managers in Access to Biologics for Dermatologic Conditions.** *Journal of psoriasis and psoriatic arthritis*
Leeolou, M. C., Jia, J. L., Harris, J., Liao, W.
2025: 24755303251387126
- **Targeting circulating mechanoresponsive monocytes and macrophages to reduce fibrosis.** *Nature biomedical engineering*
Chen, K., Griffin, M., Henn, D., Berryman, K. S., Sivaraj, D., Kussie, H. C., Bonham, C. A., McKenna, E., Mora Pinos, M. G., Alsharif, A. M., Saenz, F., Matthews, N. E., Jafri, et al
2025
- **Immune Cell Signatures Associated with Disease Activity in Dermatomyositis Across Autoantibody Subtypes**
Sagun, J., Leeolou, M., Geraci, N., Bender, A., Strand, F., Fiorentino, D., Sarin, K.
WILEY.2025: 3976-3977
- **Biosimilars in dermatology: New opportunities and obstacles** *JAAD INTERNATIONAL*
Leeolou, M. C., Jia, J. L., Sarin, K. Y.
2025; 21: 32-33
- **Biosimilars in dermatology: New opportunities and obstacles.** *JAAD international*
Leeolou, M. C., Jia, J. L., Sarin, K. Y.
2025; 21: 32-33
- **Copay Accumulators: A Legislative Issue in Dermatology.** *Journal of psoriasis and psoriatic arthritis*
Leeolou, M. C., Jia, J. L., Pham, D. L., Harris, J., Liao, W.
2025: 24755303251361815
- **Ethical challenges of non-medical switching and biosimilar substitution.** *Journal of the American Academy of Dermatology*
Leeolou, M. C., Jia, J. L., Sarin, K. Y.
2025
- **The first national disability medical student affinity organisation in the United States** *MEDICAL EDUCATION*
Dhanani, Z., Leeolou, M. C., Ikedionwu, I., Newcomb, N.
2025
- **What patients keep: A reflection on language and agency in clinical encounters.** *Patient education and counseling*
Leeolou, M. C.
2025; 137: 108816
- **The Impact of Step Therapy on Individuals with Psoriatic Disease in the USA: Patient and Provider Perspectives.** *Dermatology and therapy*
Marquez-Grap, G., Pham, D. L., Leung, A., Leeolou, M. C., Kranyak, A., Liao, W.
2025
- **Navigating patient access to treatment: a focus on pharmaceutical drug samples.** *Journal of the American Academy of Dermatology*
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- **Extension. JAMA**
Leeolou, M. C.
2024
- **When savings fall short: drug coupons for generic prescriptions do not always result in savings for patients.** *Journal of the American Academy of Dermatology*
Leeolou, M. C., Jia, J. L., Pham, D., Sarin, K. Y.
2024
- **From Clinic to Capitol Hill: Dermatologists Driving Policy Change.** *Journal of the American Academy of Dermatology*
Leeolou, M. C., Jia, J. L., Liao, W.
2024
- **IFI27 Is Differentially Upregulated in Anti-MDA5 Dermatomyositis and Correlates with the Presence of Interstitial Lung Disease**
Leeolou, M., Chung, L., Sarin, K., Fiorentino, D.
WILEY.2024: 642-643
- **Filling the Prescription Gap: The Value of Community Support in Psoriasis Management.** *The British journal of dermatology*
Leeolou, M. C., Sarin, K. Y., Fiorentino, D. F.
2024
- **Allometrically scaling tissue forces drive pathological foreign-body responses to implants via Rac2-activated myeloid cells.** *Nature biomedical engineering*
Padmanabhan, J., Chen, K., Sivaraj, D., Henn, D., Kuehlmann, B. A., Kussie, H. C., Zhao, E. T., Kahn, A., Bonham, C. A., Dohi, T., Beck, T. C., Trotsyuk, A. A., Stern-Buchbinder, et al
2023
- **Nitric oxide-releasing gel accelerates healing in a diabetic murine splinted excisional wound model.** *Frontiers in medicine*
Sivaraj, D., Noishiki, C., Kosaric, N., Kiwanuka, H., Kussie, H. C., Henn, D., Fischer, K. S., Trotsyuk, A. A., Greco, A. H., Kuehlmann, B. A., Quintero, F., Leeolou, M. C., Granoski, et al
2023; 10: 1060758
- **Primary cutaneous CD4+ small/medium-sized pleomorphic T-cell lymphoproliferative disorder in a young woman.** *Dermatology online journal*
Leeolou, M. C., Young, P. A., Saleem, A., Narala, S., Bae, G. H.
2022; 28 (6)
- **Wireless, closed-loop, smart bandage with integrated sensors and stimulators for advanced wound care and accelerated healing.** *Nature biotechnology*
Jiang, Y., Trotsyuk, A. A., Niu, S., Henn, D., Chen, K., Shih, C. C., Larson, M. R., Mermin-Bunnell, A. M., Mittal, S., Lai, J. C., Saberi, A., Beard, E., Jing, et al
2022
- **Characterization of Mechanoresponsive Inflammatory Cells during Wound Healing**
Chen, K., Griffin, M., Henn, D., Bonham, C. A., Fischer, K., Padmanabhan, J., Trotsyuk, A. A., Sivaraj, D., Leeolou, M., Kussie, H. C., Huskins, S., Steele, S., Perrault, et al
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- **Disrupting mechanotransduction decreases fibrosis and contracture in split-thickness skin grafting.** *Science translational medicine*
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2022; 14 (645): eabj9152
- **Pullulan-Collagen Hydrogel Wound Dressing Promotes Dermal Remodeling and Wound Healing Compared to Commercially Available Collagen Dressings.** *Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society*
Chen, K., Sivaraj, D., Davitt, M., Leeolou, M. C., Henn, D., Steele, S. R., Huskins, S. L., Trotsyuk, A. A., Kussie, H. C., Greco, A., Padmanabhan, J., Perrault, D. P., Zamaleeva, et al
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- **Characterization of Mechanoresponsive Inflammatory Cells during Wound Healing**

- Chen, K., Griffin, M., Henn, D., Bonham, C. A., Fischer, K., Padmanabhan, J., Trotsyuk, A. A., Sivaraj, D., Leeolou, M. C., Kussie, H. C., Huskins, S. L., Steele, S., Perrault, et al
WILEY.2022: A5
- **Mechanical Signaling Mediated by IQGAP1 Promotes Pathologic Foreign Body Response**
Sivaraj, D., Padmanabhan, J., Chen, K., Henn, D., Kussie, H. C., Leeolou, M. C., Trotsyuk, A. A., Fischer, K., Perrault, D., Gurtner, G. C.
WILEY.2022: A21
 - **Application of No Releasing Gel Increases Fibronectin, TGF-beta 1, and Accelerates Wound Healing in Diabetic Mice**
Noishiki, C., Sivaraj, D., Kosaric, N., Leeolou, M. C., Kussie, H. C., Kiwanuka, H., Henn, D., Fischer, K., Trotsyuk, A. A., Padmanabhan, J., Perrault, D., Murad, F., Chen, et al
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 - **Determining How Early Disruption Of Mechanotransduction Affects Acute Wound Healing**
Kussie, H. C., Sivaraj, D., Leeolou, M. C., Huskins, S. L., Steele, S., Henn, D., Trotsyuk, A. A., Gurtner, G. C., Chen, K.
WILEY.2022: A22
 - **Interactions Of Fibroblasts Versus Macrophages In An In Vitro Model Of Scar Formation And Wound Healing**
Huskins, S. L., Griffin, M., Steele, S., Thomas, B., Kussie, H. C., Sivaraj, D., Leeolou, M. C., Trotsyuk, A. A., Padmanabhan, J., Longaker, M. T., Gurtner, G. C., Chen, K.
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 - **Pullulan-Collagen Hydrogel Wound Dressing Promotes Dermal Remodeling and Healing in an Excisional Wound Model**
Leeolou, M. C., Sivaraj, D., Davitt, M., Henn, D., Steele, S., Huskins, S. L., Trotsyuk, A. A., Kussie, H. C., Greco, A., Perrault, D., Padmanabhan, J., Longaker, M. T., Chen, et al
WILEY.2022: A24
 - **Characterization of Mechanoresponsive Inflammatory Cells during Wound Healing**
Chen, K., Griffin, M., Henn, D., Bonham, C. A., Fischer, K., Padmanabhan, J., Trotsyuk, A. A., Sivaraj, D., Leeolou, M. C., Kussie, H. C., Huskins, S. L., Steele, S., Perrault, et al
WILEY.2022: A31-A32
 - **Galvanotactic Smart Bandage for Chronic Wound Management and Tissue Regeneration**
Trotsyuk, A. A., Jiang, Y., Niu, S., Henn, D., Chen, K., Larson, M., Beard, E., Saberi, A., Sivaraj, D., Mermin-Bunnell, A., Mittal, S., Jing, S., Kwon, et al
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 - **Reinforced Biologic Mesh Reduces Postoperative Complications Compared to Biologic Mesh after Ventral Hernia Repair. *Plastic and reconstructive surgery. Global open***
Sivaraj, D., Henn, D., Fischer, K. S., Kim, T. S., Black, C. K., Lin, J. Q., Barrera, J. A., Leeolou, M. C., Makarewicz, N. S., Chen, K., Perrault, D. P., Gurtner, G. C., Lee, et al
2022; 10 (2): e4083
 - **Recurrent bilateral cutaneous squamous cell carcinoma arising within pretibial hypertrophic lichen planus with metastasis while on cemiplimab *Journal of the American Academy of Dermatology Case Reports***
Leeolou, M., Burgren, N., Lee, C., Momeni, A., Pinto, H., Johannet, P., Nord, K., Chang, A. S.
2022
 - **IQGAP1-mediated mechanical signaling promotes the foreign body response to biomedical implants. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology***
Sivaraj, D., Padmanabhan, J., Chen, K., Henn, D., Noishiki, C., Trotsyuk, A. A., Kussie, H. C., Leeolou, M. C., Magbual, N. J., Andrikopoulos, S., Perrault, D. P., Barrera, J. A., Januszyk, et al
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 - **Inhibiting Fibroblast Mechanotransduction Modulates Severity of Idiopathic Pulmonary Fibrosis. *Advances in wound care***
Trotsyuk, A. A., Chen, K., Kwon, S. H., Ma, K. C., Henn, D., Mermin-Bunnell, A. M., Mittal, S., Padmanabhan, J., Larson, M. R., Steele, S. R., Sivaraj, D., Bonham, C. A., Noishiki, et al
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 - **First reported case of *Wohlfahrtiimonas chitiniclastica* infection in California *JAAD Case Reports Journal of the American Academy of Dermatology Case Reports***
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