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Carl Gustaf Mårten Winge,MD PhD

Instructor, Dermatology

CLINICAL OFFICE (PRIMARY)

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Bio

BIO

Mårten Winge, M.D. Ph.D., is a Clinical Instructor of Dermatology and conducts research in the laboratory of Dr Paul Khavari at Stanford, where he studies epidermal differentiation. Dr Winge completed his M.D. and Ph.D studies at Karolinska Institute in Sweden, and subsequently a research fellowship followed by dermatology residency at Stanford. His clinical interests include inflammatory skin disease as well as skin cancer.

CLINICAL FOCUS

- Dermatology
- Inflammatory skin disease
- Skin cancer.

ACADEMIC APPOINTMENTS

- Instructor, Dermatology

ADMINISTRATIVE APPOINTMENTS

- Senior Research Scientist, Khavari Lab, (2023- present)

PROFESSIONAL EDUCATION

- Board Certification: Dermatology, American Board of Dermatology (2022)
- Board Certification, American Board of Dermatology , Dermatology (2022)
- Residency: Stanford University Dermatology Residency (2022) CA
- Internship: UCLA General Surgery Residency (2019) CA
- Medical Education: Karolinska Institute (2008) Sweden
- PhD, Karolinska Institutet , Dermatology, Medicine (2012)
- MD, Karolinska Institutet , Medicine (2008)

LINKS

- Khavari Lab: http://khavarilab.stanford.edu

Publications

PUBLICATIONS

- **Ubiquitin-like proteins NEDD8 and SUMO2 control epithelial homeostasis, regeneration, and inflammation.** *Science (New York, N.Y.)*
  Winge, M. C., Jackrazi, L. V., Porter, D. F., Srinivasan, S., Lopez-Pajares, V., Li, D. J., Pham, B., Houser, A., Cha, S. H., Meyers, R. M., Ko, L. A., Ducoli, L., Miao, et al
  2026; 392 (6805): eaeb3900

- **Disease-linked regulatory DNA variants and homeostatic transcription factors in epidermis.** *Nature communications*
  Porter, D. F., Meyers, R. M., Miao, W., Reynolds, D. L., Hong, A. W., Yang, X., Srinivasan, S., Mondal, S., Siprashvili, Z., Fabo, T., Zhou, R., Nguyen, T., Ducoli, et al
  2025; 16 (1): 8387

- **Glucose modulates IRF6 transcription factor dimerization to enable epidermal differentiation.** *Cell stem cell*
  Lopez-Pajares, V., Bhaduri, A., Zhao, Y., Gowrishankar, G., Donohue, L. K., Guo, M. G., Siprashvili, Z., Miao, W., Nguyen, D. T., Yang, X., Li, A. M., Tung, A. S., Shanderson, et al
  2025

- **Repurposing an epithelial sodium channel inhibitor as a therapy for murine and human skin inflammation.** *Science translational medicine*
  Winge, M. C., Nasrallah, M., Jackrazi, L. V., Guo, K. Q., Fuhriman, J. M., Szafran, R., Ramanathan, M., Gurevich, I., Nguyen, N. T., Siprashvili, Z., Inayathullah, M., Rajadas, J., Porter, et al
  2024; 16 (777): eade5915

- **Advances in cutaneous squamous cell carcinoma.** *Nature reviews. Cancer*
  Winge, M. C., Kellman, L. N., Guo, K., Tang, J. Y., Swetter, S. M., Aasi, S. Z., Sarin, K. Y., Chang, A. L., Khavari, P. A.
  2023

- **Single-Cell and Spatial Transcriptomic Analysis of Human Skin Delineates Intercellular Communication and Pathogenic Cells.** *The Journal of investigative dermatology*
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  2023

- **New-onset pemphigus vegetans and pemphigus foliaceus following SARS-CoV-2 vaccination: a case series.** *JAAD case reports*
  Gui, H., Young, P. A., Sox, J., Pol-Rodriguez, M., Rieger, K. E., Lewis, M. A., Winge, M. C., Bae, G. H.
  2022

- **NUTRITIONAL DEFICIENCY CONTRIBUTING TO REFRACTORY ERYTHRODERMA IN HEMATOPOETIC CELL TRANSPLANT PATIENTS: DISTINCTIVE CLINICAL AND HISTOPATHOLOGICAL FINDINGS.** *Journal of the American Academy of Dermatology*
  Winge, M. C., Rieger, K. E., Kim, J., Weng, W., Johnston, L. J., Miklos, D. B., Strelo, J., Zaba, L. C., Pugliese, S. B., Novoa, R. A., Kwong, B. Y.
  2021

- **Telescope punch biopsy of normal-appearing skin to diagnose intravascular lymphoma.** *The British journal of dermatology*
  Winge, M. C., Iberri, D. J., Novoa, R. A., Kwong, B. Y., Zaba, L. C.
  2021

- **ITK and RLK Inhibitor PRN694 Improves Skin Disease in Two Mouse Models of Psoriasis.** *The Journal of investigative dermatology*
  Fuhriman, J. M., Winge, M. C., Haberstock-Debic, H., Funk, J. O., Bradshaw, J. M., Marinkovich, M. P.
  2018; 138 (4): 864–71

- **Chronic skin inflammation accelerates macrophage cholesterol crystal formation and atherosclerosis** *Chronic skin inflammation accelerates macrophage cholesterol crystal formation and atherosclerosis*
  Marinkovich, M. P., et al
  2018

- **Intragenic Copy Number Variation in the Filaggrin Gene in Ethiopian Patients with Atopic Dermatitis** *PEDIATRIC DERMATOLOGY*

Fernandez, K., Asad, S., Taylan, F., Wahlgren, C., Bilcha, K. D., Nordenskjold, M., Winge, M. C. G., Bradley, M.
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- **Epidermal activation of the small GTPase Rac1 in psoriasis pathogenesis.** *Small GTPases*
  Winge, M. C., Marinkovich, M. P.
  2017: 1-6

- **The tight junction gene Claudin-1 is associated with atopic dermatitis among Ethiopians** *JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY*
  Asad, S., Winge, M. G., Wahlgren, C., Bilcha, K. D., Nordenskjold, M., Taylan, F., Bradley, M.
  2016; 30 (11): 1939-1941

- **Safety and efficacy of the JAK inhibitor tofacitinib citrate in patients with alopecia areata.** *JCI insight*
  Kennedy Crispin, M., Ko, J. M., Craiglow, B. G., Li, S., Shankar, G., Urban, J. R., Chen, J. C., Cerise, J. E., Jabbari, A., Winge, M. C., Marinkovich, M. P., Christiano, A. M., Oro, et al
  2016; 1 (15)

- **Safety and efficacy of the JAK inhibitor tofacitinib citrate in patients with alopecia areata** *JCI INSIGHT*
  Crispin, M., Ko, J. M., Craiglow, B. G., Li, S., Shankar, G., Urban, J. R., Chen, J. C., Cerise, J. E., Jabbari, A., Winge, M. C. G., Marinkovich, M., Christiano, A. M., Oro, et al
  2016; 1 (15)

- **RAC1 activation drives pathologic interactions between the epidermis and immune cells** *JOURNAL OF CLINICAL INVESTIGATION*
  Winge, M. C., Ohyama, B., Dey, C. N., Boxer, L. M., Li, W., Ehsani-Chimeh, N., Truong, A. K., Wu, D., Armstrong, A. W., Makino, T., Davidson, M., Starcevic, D., Kislat, et al
  2016; 126 (7): 2661-2677

- **Translating Ribosome Affinity Purification for Qualitative Assessment of Human Neural Stem Cells Transcripts in the Ischemic Rat Brain.**
  Azevedo-Pereira, R. L., Manley, N. C., Winge, M. C., Berryn, J., Sun, G., Bliss, T., Steinberg, G. K.
  LIPPINCOTT WILLIAMS & WILKINS.2016

- **Optogenetic Stimulation of Neural Grafts Enhances Neurotransmission and Downregulates the Inflammatory Response in Experimental Stroke Model.** *Cell transplantation*
  Daadi, M. M., Klausner, J. Q., Bajar, B., Goshen, I., Lee-Messer, C., Lee, S. Y., Winge, M. C., Ramakrishnan, C., Lo, M., Sun, G., Deisseroth, K., Steinberg, G. K.
  2016; 25 (7): 1371-1380

- **Whole-exome sequencing of Ethiopian patients with ichthyosis vulgaris and atopic dermatitis** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
  Taylan, F., Nilsson, D., Asad, S., Lieden, A., Wahlgren, C., Winge, M. C. G., Bilcha, K., Nordenskjold, M., Bradley, M.
  2015; 136 (2): 507-+

- **Maternal Filaggrin Mutations Increase the Risk of Atopic Dermatitis in Children: An Effect Independent of Mutation Inheritance** *PLOS GENETICS*
  Esparza-Gordillo, J., Matanovic, A., Marenholz, I., Bauerfeind, A., Rohde, K., Nemat, K., Lee-Kirsch, M., Nordenskjold, M., Winge, M. C. G., Keil, T., Krueger, R., Lau, S., Beyer, et al
  2015; 11 (3): e1005076

- **Moisturizing treatment of patients with atopic dermatitis and ichthyosis vulgaris improves dry skin, but has a modest effect on gene expression regardless of FLG genotype** *JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY*
  Hoppe, T., Winge, M. G., Bradley, M., Nordenskjold, M., Vahlquist, A., Torma, H., Berne, B.
  2015; 29 (1): 174-177

- **Atopic dermatitis severity and skin barrier impairment** *BRITISH JOURNAL OF DERMATOLOGY*
  Winge, M. G.
  2014; 170 (3): 490-491

- **A genome-wide association study of atopic dermatitis identifies loci with overlapping effects on asthma and psoriasis** *HUMAN MOLECULAR GENETICS*
  Weidinger, S., Willis-Owen, S. A. G., Kamatani, Y., Baurecht, H., Morar, N., Liang, L., Edser, P., Street, T., Rodriguez, E., O'Regan, G. M., Beattie, P., Foelster-Holst, R., Franke, et al

2013; 22 (23): 4841-4856

- **Genetic Variation in the Inflammasome and Atopic Dermatitis Susceptibility** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
  Bivik, C., Verma, D., Winge, M. C., Lieden, A., Bradley, M., Rosdahl, I., Soderkvist, P.
  2013; 133 (10): 2486-2489

- **Lack of association between filaggrin gene mutations and onset of psoriasis in childhood** *JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY*
  Winge, M. G., Suneson, J., Lysell, J., Nikamo, P., Lieden, A., Nordenskjold, M., Wahlgren, C. F., Bradley, M., Stahle, M.
  2013; 27 (1): e124-e127

- **Characterization of EGFR and ErbB2 expression in atopic dermatitis patients** *ARCHIVES OF DERMATOLOGICAL RESEARCH*
  Saaf, A., Pivarcsi, A., Winge, M. C. G., Wahlgren, C., Homey, B., Nordenskjold, M., Tengvall-Linder, M., Bradley, M.
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- **Genetic Variation in the Epidermal Transglutaminase Genes Is Not Associated with Atopic Dermatitis** *PLOS ONE*
  Lieden, A., Winge, M. C. G., Saaf, A., Kockum, I., Ekelund, E., Rodriguez, E., Foelster-Holst, R., Franke, A., Illig, T., Tengvall-Linder, M., Baurecht, H., Weidinger, S., Wahlgren, et al
  2012; 7 (11): e49694

- **X-linked recessive ichthyosis: an impaired barrier function evokes limited gene responses before and after moisturizing treatments** *BRITISH JOURNAL OF DERMATOLOGY*
  Hoppe, T., Winge, M. G., Bradley, M., Nordenskjold, M., Vahlquist, A., Berne, B., Torma, H.
  2012; 167 (3): 514-522

- **Filaggrin Genotype Determines Functional and Molecular Alterations in Skin of Patients with Atopic Dermatitis and Ichthyosis Vulgaris** *PLOS ONE*
  Winge, M. C. G., Hoppe, T., Berne, B., Vahlquist, A., Nordenskjold, M., Bradley, M., Torma, H.
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- **Novel filaggrin mutation but no other loss-of-function variants found in Ethiopian patients with atopic dermatitis** *BRITISH JOURNAL OF DERMATOLOGY*
  Winge, M. G., Bilcha, K. D., Lieden, A., Shibeshi, D., Sandilands, A., Wahlgren, C., McLean, W. I., Nordenskjold, M., Bradley, M.
  2011; 165 (5): 1074-1080

- **Novel point mutation in the STS gene in a patient with X-linked recessive ichthyosis** *JOURNAL OF DERMATOLOGICAL SCIENCE*
  Winge, M. C. G., Hoppe, T., Lieden, A., Nordenskjold, M., Vahlquist, A., Wahlgren, C., Torma, H., Bradley, M., Berne, B.
  2011; 63 (1): 62-64

- **Combs and Hair-trimming Tools as Reservoirs for Dermatophytes in Juvenile Tinea Capitis** *ACTA DERMATO-VENEREOLOGICA*
  Winge, M. C. G., Chryssanthou, E., Wahlgren, C.
  2009; 89 (5): 536-537