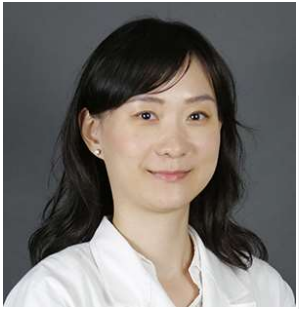


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Research Interests: (Key words)	Dr. Fan conducts both clinical and basic research to improve dry eye disease (DED), limbal stem cell deficiency and corneal infectious diseases. Her research focuses on Th17 immunity on ocular surface and on aims to untangle the immunopathology of dry eye disease.			
Selected Publications (in recent 5 yr):	<ol style="list-style-type: none"> Fan NW, Zhu Q, Wang S, Ortiz G, Huckfeldt RM, Chen Y. Long-lived autoreactive memory CD4+ T cells mediate the sustained retinopathy in chronic autoimmune uveitis. FASEB J 2023 (accept) (IF=5.834) Fan NW, Wang S, Ortiz G, Chauhan SK, Chen Y, Dana R. Autoreactive memory Th17 cells are principally derived from T-bet⁺RORγt⁺ Th17/1 effectors. J Autoimmun. 2022 May;129:102816. Epub 2022 Apr 5. (IF=14.511) Fan NW, Dohlman TH, Foulsham W, McSoley M, Singh RB, Chen Y, Dana R. The Role of Th17 Immunity in Chronic Ocular Surface Disorders. Ocul Surf. 2020 May 26;S1542-0124(20)30087-2.(IF=6.268) Fan NW, Li J, Mittal SK, Foulsham W, Elbasiony E, Huckfeldt RM, Chauhan SK, Chen Y. Characterization of Clinical and Immune Responses in an Experimental Chronic Autoimmune Uveitis Model. Am J Pathol. 2020 Sep 20, Online ahead of print. (IF=5.77) Chen, Y., Shao, C., Fan, NW. et al. The functions of IL-23 and IL-2 on driving autoimmune effector T-helper 17 cells into the memory pool in dry eye disease. Mucosal Immunol (2020).(IF=8.701) Fan NW, Ho TC, Lin EH, Wu CW, Chien HY, Tsao YP. Pigment epithelium-derived factor peptide reverses mouse age-related meibomian gland atrophy. Exp Eye Res. 2019, 185,107678 (IF=3.77) 			

	<ol style="list-style-type: none"> 7. Fan NW, Ho TC, Wu CW, Tsao YP. Pigment epithelium-derived factor peptide promotes limbal stem cell proliferation through hedgehog pathway. <i>J Cell Mol Med.</i> 2019 Jul;23(7):4759-4769. (IF=5.295) 8. Chou YB, Fan NW, Lin PY. Value of Lipid Layer Thickness and Blinking Pattern in Approaching Patients With Dry Eye Symptoms. <i>Can J Ophthalmol.</i> 2019, 54 (6), 735-740 9. Liu CY, Chou YH, Ko PS, Wang HY, Fan NW, Liu CJ, Hsiao LT, Chien SH, Chiu TJ, Liu JH, Gau JP. Risk Factors and Clinical Features for Post-Transplant Thoracic Air-Leak Syndrome in Adult Patients Receiving Allogeneic Haematopoietic Stem Cell Transplantation. <i>Sci Rep.</i> 2019, 9 (1), 11795 10. Liu YC, Wu CJ, Ko PS, Chien SH, Fan NW, Wang HY, Gau JP, Liu CJ, Hsiao LT, Chiu TJ, Liu CY, JH Liu Mycobacterial Infections in Adult Recipients of Allogeneic Hematopoietic Stem Cell Transplantation: A Cohort Study in a High Endemic Area. <i>J Microbiol Immunol Infect.</i> 2018 Jul 26 Online ahead of print.
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