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Education and Training

I received my PhD in Biochemistry and Molecular Biology and also did my postdoctoral training at the University of Notre Dame, Notre Dame, Indiana. I worked at the Cleveland Clinic Foundation and the American Red Cross Holland Laboratory before joining the faculty of the University of Maryland, School of Medicine in 2004. My research program has been continuously funded and supported by the National Institute of Health. I also received fundign from the Department of Defense, Arthritis Foundation and the American Heart Association.

Research/Clinical Keywords

Cardiovascular diseases, inflammation, stem cells, macrophages, integrin, cell adhesion

Highlighted Publications

Zhang, L., Jhingan, A., and Castellino, F.J. (1992) Role of individual g-carboxyglutamic acid residues of activated human protein C in defining its in vitro anticoagulant activity. Blood, 80: 942-952.

Cao, C., Lawrence, D.A., Strickland, D., and Zhang, L. (2005) A specific role of integrin mac-1 in accelerated macrophage efflux to the lymphatics. Blood, 106: 3234-3241, 2005. Also see commentary "Mac-1 mediates migration to lymph nodes" by Joseph P. Mizgerd (Blood 106:2927-2928).

Cao, C., Lawrence, D.A., Li, Y., Von Arnim, C.A., Herz, J., Su, EJ, Makarova, A, Hyman, B.T., D.A., Strickland, D., and Zhang, L. (2006) Endocytic receptor LRP together with tPA and PAI-1 coordinates Mac-1-dependent macrophage migration. The EMBO Journal, 25:1860-1870.

Ehirchiou, D., Xiong, Y., Xu, G., Chen, W., Shi, Y., and Zhang, L. (2007) CD11b Facilitates the Development of Peripheral Tolerance by Suppressing Th17 Differentiation. Journal Experimental Medicine 204:1519-24.

Malinin, N., Zhang, L., Choi, J., Ciocea, A., Razorenova, O., Ma, Y., Podrez, E.A., Tosi, M., Lennon, D.P., Caplan, A.I., Shurin, S.B., Plow, E.F., and Byzova, T.V. (2009) A point mutation in kindlin-3 ablates activation of three integrin subfamilies in humans. Nature Medicine 15:313-8. PMCID: PMC2857384

Cao, C., Gao, Y., Li, Y., Antalis, T., Castellino, F.J., and Zhang, L. (2010) The Efficacy of Activated Protein C in Murine Endotoxemia Is Dependent on Integrin CD11b. Journal of Clinical Investigation 120:1971-1980, Highlighted on Faculty of 1000 Biology, July 2010. PMCID: PMC2877939

Yakovlev, S., Belkin, A.M., Chen, L., Cao, C., Zhang, L., Strickland, D.K., Medved, L. (2016) Anti-VLDL receptor monoclonal antibodies inhibit fibrin-VLDL receptor interaction and reduce fibrin-dependent leukocyte transmigration. Thromb Haemost. Nov 30;116(6):1122-1130. Epub 2016 Sep 1. PMCID: PMC5294920

Skerry, C., Scanlon, K., Ardanuy, J., Roberts, D., Zhang, L., Rosen, H., Carbonetti, N.H. (2017) Therapeutic treatment with sphingosine-1-phosphate receptor 1 ligands reduces pertussis inflammatory pathology by a pertussis toxin-insensitive mechanism. J Infect Dis. 215:278-286. PMCID: PMC5853922

Stevanin, M., Busso, N., Chobaz, V., Pigni, M., Ghassem-Zadeh, S., Zhang, L., Acha-Orbea, H., Ehirchiou, D. (2017) CD11b regulates via IL-6 the Treg/Th17 balance in murine arthritis. Eur. J. Immunol, 47:637-645. PMID: 28191643

Su, E.J., Cao, C., Fredriksson, L., Nilsson, I., Stefanitsch, C., Stevenson, T.K., Zhao, J., Ragsdale, M., Sun, Y., Yepes, M., Kuan, C.Y., Eriksson, U., Strickland, D.K., Lawrence, D.A., and Zhang, L. (2017) Microglial mediated PDGF-CC activation increases cerebrovascular permeability during ischemic stroke. Acta Neuropathol 134:585 - 604. PMCID: PMC5587628

Zhang, L. (2018) Contribution of resident and recruited macrophages in vascular physiology and pathology. Current Opinion in Hematology, 25:196-203. PMID: 29438258

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