David R. Allred, Ph.D.
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Host-parasite interactions; immunology of hemoparasitic diseases

Mark Atkinson, Ph.D.
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Type 1 Diabetes; cellular immunology, clinical trials for disease prevention and reversal

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How misfolded alpha-1-antitrypsin causes cellular injury in liver and innate immune cells

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Regulation of immunity & autoimmunity; prediction, intervention, and treatment for type 1 diabetes

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My lab studies the response of blood vessels within the lung to low oxygen levels

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Characterize the immune suppressor mechanisms involved in the development of HCC

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My laboratory is examining mechanisms for loss of human beta cells in type 1 diabetes

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Pathogenesis of autoimmune Sjogren's syndrome. Innate immunity of Sjogrens syndrome

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MicroRNA; signaling pathways; innate immune response; autoimmune disease

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Strategies to enhance the immunity of domestic animals toward human health

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Effect of immunosuppression on anti-GAA antibody development; Pompe disease

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Developing novel approaches to target brain tumors; immunotherapy

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Prevention and Reversal of Type 1 diabetes

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immune modulation and tolerance induction; (AAV) gene therapy
Research focus: Immunology

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Mucosal vaccine; inflammation; STING biology

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Immune Cell function; biomaterial cell-interaction; engineering

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Tumor immunology; immunotherapy; cancer

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Genetics of resistance to autoimmune diabetes; oxidative burden of the beta cell.

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Lung immune response and repair; infectious and non-infectious injury

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Immunotherapy of adult and pediatric brain tumors

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Innate and adaptive immune response to severe critical illness

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Lupus; immune metabolism; microbiome; metabolic inhibitors

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Autoimmune disease; Zika; SjS syndrome; B cell; T cell

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Immune recognition, structural biology and drug discovery

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Prediction, immunopathogenesis, genetics, Type 1 diabetes

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Stem cell; immunotherapy; cancer

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Engineering of cell-based tissues for the treatment of Type 1 diabetes

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Diabetes research
Research focus: Immunology

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Converting white adipose tissue into brown adipose tissue to fight type 2 diabetes

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IBD, colon cancer; infectious disease; Tcell; metabolism

**Weizhou Zhang, Ph.D.**
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Pathogenesis and therapy of breast cancer

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Intestinal immune response; host-microbe interaction; lymphocyte

**Ellen M. Zimmerman, M.D.**
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IBD; Crohn’s; ulcerative colitis; immunosupression