

# Stanford

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## Chris Garcia

Younger Family Professor and Professor of Structural Biology  
Molecular & Cellular Physiology

### CONTACT INFORMATION

- **Alternate Contact**

Sara Johnson - Administrative Associate

**Email** saralj@stanford.edu

### Bio

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#### ACADEMIC APPOINTMENTS

- Professor, Molecular & Cellular Physiology
- Professor, Structural Biology
- Member, Bio-X
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

#### ADMINISTRATIVE APPOINTMENTS

- Investigator, Howard Hughes Medical Institute, (2005- present)

#### LINKS

- Garcia Lab Website: <http://med.stanford.edu/garcialab.html>

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

My laboratory studies the structural and functional basis of receptor/ligand interactions in systems which are relevant to human health and disease. Our investigations are aimed at understanding the molecular recognition properties governing the interactions of receptors with their ligands, and the subsequent molecular events which couple ligand recognition to receptor activation. Many of the systems we are studying in the laboratory are related to the interaction of the host with the environment. The structural studies are complemented by functional approaches using molecular biology and protein engineering to dissect the structural information, design new or altered proteins with modified specificities and activities, and ultimately contribute to the development of proteins or molecules with therapeutic potential. Molecules currently under study include receptors of the immune system involved in autoimmune disorders (T cell receptors, co-receptors, MHC, cytokines), proteins involved in host-pathogen interactions and molecular mimicry (CMV and Toxoplasma surface antigens), proteins of nervous system (peptide hormone receptors, neural guidance proteins), and membrane proteins (chemokine receptors). An emerging focus of our research is to develop, using combinatorial biology approaches, novel ligands for receptors, which may have altered activities, that may serve as therapeutic starting points.

## CLINICAL TRIALS

- Adaptive Immune Responses and Repertoire in Influenza Vaccination and Infection (SLVP031), Not Recruiting

## Teaching

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### COURSES

#### 2020-21

- Seminar in Immunology: IMMUNOL 311 (Aut)

#### 2019-20

- Seminar in Immunology: IMMUNOL 311 (Aut, Win, Spr)

#### 2018-19

- Seminar in Immunology: IMMUNOL 311 (Aut, Win, Spr)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Justin Arredondo-Guerrero

#### Postdoctoral Faculty Sponsor

Marta Borowska, Nathanael Caveney, Xiaojing Chen, Yi Miao, Junming Ren, Branden Tarlow, Steven Wilson, Aerin Yang, Xinbo Yang, Michelle Yen, Xiang Zhao

#### Doctoral Dissertation Advisor (AC)

Gita Abhiraman, Caleb Glassman

#### Postdoctoral Research Mentor

Xinbo Yang

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biophysics (Phd Program)
- Immunology (Phd Program)
- Microbiology and Immunology (Phd Program)
- Molecular and Cellular Physiology (Phd Program)
- Structural Biology (Phd Program)

## Publications

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### PUBLICATIONS

- **An engineered IL-2 partial agonist promotes CD8<sup>+</sup> T cell stemness.** *Nature*  
Mo, F., Yu, Z., Li, P., Oh, J., Spolski, R., Zhao, L., Glassman, C. R., Yamamoto, T. N., Chen, Y., Golebiowski, F. M., Hermans, D., Majri-Morrison, S., Picton, et al  
2021
- **Accurate prediction of protein structures and interactions using a three-track neural network.** *Science (New York, N.Y.)*  
Baek, M., DiMaio, F., Anishchenko, I., Dauparas, J., Ovchinnikov, S., Lee, G. R., Wang, J., Cong, Q., Kinch, L. N., Schaeffer, R. D., Millan, C., Park, H., Adams, et al  
2021
- **Orthogonal IL-9 receptor signaling reprograms T cells to obviate conditioning chemotherapy before adoptive cell therapy.**  
Kalbasi, A., Tariveranmoshabad, M., Escuin-Ordenas, H., Kremer, S., Su, L. L., Picton, L., Parisi, A., Garcia, C., Ribas, A.

AMER ASSOC CANCER RESEARCH.2021

- **Selective expansion of regulatory T cells using an orthogonal IL-2/IL-2 receptor system facilitates transplantation tolerance.** *The Journal of clinical investigation*  
Hirai, T., Ramos, T. L., Lin, P., Simonetta, F., Su, L. L., Picton, L. K., Baker, J., Lin, J., Li, P., Seo, K., Lohmeyer, J. K., Wagers, S. B., Mavers, et al  
2021; 131 (8)
- **The tissue protective functions of interleukin-22 can be decoupled from pro-inflammatory actions through structure-based design.** *Immunity*  
Saxton, R. A., Henneberg, L. T., Calafiore, M., Su, L., Jude, K. M., Hanash, A. M., Garcia, K. C.  
2021; 54 (4): 660
- **Global analysis of shared T cell specificities in human non-small cell lung cancer enables HLA inference and antigen discovery.** *Immunity*  
Chiou, S. H., Tseng, D. n., Reuben, A. n., Mallajosyula, V. n., Molina, I. S., Conley, S. n., Wilhelmy, J. n., McSween, A. M., Yang, X. n., Nishimiya, D. n., Sinha, R. n., Nabet, B. Y., Wang, et al  
2021; 54 (3): 586–602.e8
- **Calibration of cell-intrinsic interleukin-2 response thresholds guides design of a regulatory T cell biased agonist.** *eLife*  
Glassman, C. R., Su, L. n., Majri-Morrison, S. S., Winkelmann, H. n., Mo, F. n., Li, P. n., Pérez-Cruz, M. n., Ho, P. P., Koliesnik, I. n., Nagy, N. n., Hnizdilova, T. n., Picton, L. K., Kovar, et al  
2021; 10
- **Selective targeting of ligand-dependent and -independent signaling by GPCR conformation-specific anti-US28 intrabodies.** *Nature communications*  
De Groof, T. W., Bergkamp, N. D., Heukers, R., Giap, T., Bebelman, M. P., Goeij-de Haas, R., Piersma, S. R., Jimenez, C. R., Garcia, K. C., Ploegh, H. L., Siderius, M., Smit, M. J.  
2021; 12 (1): 4357
- **Cryo-EM structure of the IL-10 receptor complex provides a blueprint for ligand engineering.** *The FEBS journal*  
Saxton, R. A., Garcia, K. C.  
2021
- **Structural basis for the constitutive activity and immunomodulatory properties of the Epstein-Barr virus-encoded G protein-coupled receptor BILF1.** *Immunity*  
Tsutsumi, N., Qu, Q., Mavri, M., Baggesen, M. S., Maeda, S., Waghray, D., Berg, C., Kobilka, B. K., Rosenkilde, M. M., Skiniotis, G., Garcia, K. C.  
2021
- **Structure-based decoupling of the pro- and anti-inflammatory functions of interleukin-10.** *Science (New York, N.Y.)*  
Saxton, R. A., Tsutsumi, N., Su, L. L., Abhiraman, G. C., Mohan, K., Henneberg, L. T., Aduri, N. G., Gati, C., Garcia, K. C.  
2021; 371 (6535)
- **Structural basis for IL-12 and IL-23 receptor sharing reveals a gateway for shaping actions on T versus NK cells.** *Cell*  
Glassman, C. R., Mathiharan, Y. K., Jude, K. M., Su, L. n., Panova, O. n., Lupardus, P. J., Spangler, J. B., Ely, L. K., Thomas, C. n., Skiniotis, G. n., Garcia, K. C.  
2021; 184 (4): 983–99.e24
- **Tuning MPL signaling to influence hematopoietic stem cell differentiation and inhibit essential thrombocythemia progenitors** *Proceedings of the National Academy of Sciences*  
Wernig, G.  
2021; 118 (2) (Jan 2021)
- **Tuning MPL signaling to influence hematopoietic stem cell differentiation and inhibit essential thrombocythemia progenitors.** *Proceedings of the National Academy of Sciences of the United States of America*  
Cui, L. n., Moraga, I. n., Lerbs, T. n., Van Neste, C. n., Wilmes, S. n., Tsutsumi, N. n., Trotman-Grant, A. C., Gakovic, M. n., Andrews, S. n., Gotlib, J. n., Darmanis, S. n., Enge, M. n., Quake, et al  
2021; 118 (2)
- **Progenitor identification and SARS-CoV-2 infection in human distal lung organoids.** *Nature*  
Salahudeen, A. A., Choi, S. S., Rustagi, A., Zhu, J., van Unen, V., de la O, S. M., Flynn, R. A., Margalef-Catala, M., Santos, A. J., Ju, J., Batish, A., Usui, T., Zheng, et al  
2020
- **A Human IgSF Cell-Surface Interactome Reveals a Complex Network of Protein-Protein Interactions.** *Cell*  
Wojtowicz, W. M., Vielmetter, J., Fernandes, R. A., Siepe, D. H., Eastman, C. L., Chisholm, G. B., Cox, S., Klock, H., Anderson, P. W., Rue, S. M., Miller, J. J., Glaser, S. M., Bragstad, et al

2020; 182 (4): 1027

- **Discovery of surrogate agonists for visceral fat Treg cells that modulate metabolic indices in vivo.** *eLife*  
Fernandes, R. A., Li, C., Wang, G., Yang, X., Savvides, C. S., Glassman, C. R., Dong, S., Luxenberg, E., Sibener, L. V., Birnbaum, M. E., Benoist, C., Mathis, D., Garcia, et al  
2020; 9
- **Interrogating the recognition landscape of a conserved HIV-specific TCR reveals distinct bacterial peptide cross-reactivity.** *eLife*  
Mendoza, J. L., Fischer, S., Gee, M. H., Lam, L. H., Brackenridge, S., Powrie, F. M., Birnbaum, M., McMichael, A. J., Garcia, K. C., Gillespie, G. M.  
2020; 9
- **Discovery of a novel shared tumor antigen in human lung cancer.**  
Tseng, D., Chiou, S., Yang, X., Reuben, A., Wilhelmy, J., McSween, A., Conley, S., Sinha, R., Nabet, B., Wang, C., Shrager, J. B., Berry, M. F., Backhus, et al  
AMER SOC CLINICAL ONCOLOGY.2020
- **The Power Of Single Cell Technologies; From T Cell Receptor To Antigen(s) In Multiple Sclerosis**  
Saligrama, N., Fernandes, R. A., Pai, J., Yao, W., Louis, D. M., Oksenberg, J., Kipp, L., Dunn, J. E., Satpathy, A., Garcia, K. C., Davis, M. M.  
SAGE PUBLICATIONS LTD.2020: 5–6
- **An engineered IL-2 partial agonist promoted CD8+T cell stemness and anti-tumor efficacy**  
Mo, F., Yu, Z., Li, P., Oh, J., Spolski, R., Zhao, L., Glassman, C. R., Yamamoto, T. N., Chen, Y., Golebiowski, F. M., Hermans, D., Marjri, S. S., Picton, et al  
AMER ASSOC IMMUNOLOGISTS.2020
- **Combination therapy to enhance NK cell anti-tumor responses**  
Wolf, N. K., Nicolai, C., Dang, S., Synder, G., Blaj, C., McWhirter, S., Picton, L., Garcia, K., Raulet, D. H.  
AMER ASSOC IMMUNOLOGISTS.2020
- **Orthogonal IL-2 Cytokine-Receptor Pair Capable of Selective Expansion of Regulatory T Cells Facilitates Allograftment**  
Hirai, T., Simonetta, F., Su, L. L., Picton, L., Baker, J., Lin, J., Li, P., Leonard, W. J., Garcia, K. C., Negrin, R. S.  
WILEY.2020: 331
- **Interleukin-2 druggability is modulated by global conformational transitions controlled by a helical capping switch.** *Proceedings of the National Academy of Sciences of the United States of America*  
De Paula, V. S., Jude, K. M., Nerli, S., Glassman, C. R., Garcia, K. C., Sgourakis, N. G.  
2020
- **Towards the identification of novel tumor antigens in human lung cancer.**  
Chiou, S., Tseng, D., Wang, C., Reuben, A., Yang, X., Wilhelmy, J., McSween, A., Zhang, J., Shrager, J., Garcia, K., Davis, M.  
AMER ASSOC CANCER RESEARCH.2020: 44–45
- **Engineered IL-2 Cytokine-Cytokine Receptor Complex Enables Selective Expansion of Regulatory T Cells and Facilitates Establishment of Organ Transplantation Tolerance**  
Hirai, T., Simonetta, F., Su, L. L., Picton, L., Baker, J., Seo, K., Lohmeyer, J., Mavers, M., Blazar, B. R., Garcia, C., Negrin, R. S.  
ELSEVIER SCIENCE INC.2020: S59–S60
- **Interleukin-2 Druggability is Modulated by Global Conformational Transitions that are Controlled by a Helical Capping Switch**  
De Paula, V., Jude, K. M., Nerli, S., Glassman, C. R., Garcia, K., Sgourakis, N.  
CELL PRESS.2020: 51A
- **Immune receptor inhibition through enforced phosphatase recruitment.** *Nature*  
Fernandes, R. A., Su, L. n., Nishiga, Y. n., Ren, J. n., Bhuiyan, A. M., Cheng, N. n., Kuo, C. J., Picton, L. K., Ohtsuki, S. n., Majzner, R. G., Rietberg, S. P., Mackall, C. L., Yin, et al  
2020
- **Structure of human Frizzled5 by fiducial-assisted cryo-EM supports a heterodimeric mechanism of canonical Wnt signaling.** *eLife*  
Tsutsumi, N. n., Mukherjee, S. n., Waghray, D. n., Janda, C. Y., Jude, K. M., Miao, Y. n., Burg, J. S., Aduri, N. G., Kossiakoff, A. A., Gati, C. n., Garcia, K. C.  
2020; 9
- **Mutational signature in colorectal cancer caused by genotoxic pks+ E. coli.** *Nature*  
Pleguezuelos-Manzano, C. n., Puschhof, J. n., Huber, A. R., van Hoeck, A. n., Wood, H. M., Nomburg, J. n., Gurjao, C. n., Manders, F. n., Dalmaso, G. n., Stege, P. B., Paganelli, F. L., Geurts, M. H., Beumer, et al

2020

- **Next-Generation Surrogate Wnts Support Organoid Growth and Deconvolute Frizzled Pleiotropy In Vivo.** *Cell stem cell*  
Miao, Y. n., Ha, A. n., de Lau, W. n., Yuki, K. n., Santos, A. J., You, C. n., Geurts, M. H., Puschhof, J. n., Pleguezuelos-Manzano, C. n., Peng, W. C., Senlice, R. n., Piani, C. n., Buikema, et al  
2020
- **Wnt Activation and Reduced Cell-Cell Contact Synergistically Induce Massive Expansion of Functional Human iPSC-Derived Cardiomyocytes.** *Cell stem cell*  
Buikema, J. W., Lee, S. n., Goodyer, W. R., Maas, R. G., Chirikian, O. n., Li, G. n., Miao, Y. n., Paige, S. L., Lee, D. n., Wu, H. n., Paik, D. T., Rhee, S. n., Tian, et al  
2020; 27 (1): 50–63.e5
- **Structure and selectivity engineering of the M1 muscarinic receptor toxin complex.** *Science (New York, N.Y.)*  
Maeda, S. n., Xu, J. n., N Kadji, F. M., Clark, M. J., Zhao, J. n., Tsutsumi, N. n., Aoki, J. n., Sunahara, R. K., Inoue, A. n., Garcia, K. C., Kobilka, B. K.  
2020; 369 (6500): 161–67
- **Surrogate R-spondins for tissue-specific potentiation of Wnt Signaling.** *PloS one*  
Luca, V. C., Miao, Y. n., Li, X. n., Hollander, M. J., Kuo, C. J., Garcia, K. C.  
2020; 15 (1): e0226928
- **Mechanism of homodimeric cytokine receptor activation and dysregulation by oncogenic mutations.** *Science (New York, N.Y.)*  
Wilmes, S. n., Hafer, M. n., Vuorio, J. n., Tucker, J. A., Winkelmann, H. n., Löchte, S. n., Stanly, T. A., Pulgar Prieto, K. D., Poojari, C. n., Sharma, V. n., Richter, C. P., Kurre, R. n., Hubbard, et al  
2020; 367 (6478): 643–52
- **The combination of a STING agonist with cytokines results in robust anti-tumor effects in autochthonous tumor models**  
Blaj, C., Li, Y., Chen, A., Descien, A., Francica, B., McWhirter, S., Picton, L., Garcia, K., Raulet, D.  
BMC.2019
- **In vivo molecular imaging for immunotherapy using ultra-bright near-infrared-IIb rare-earth nanoparticles.** *Nature biotechnology*  
Zhong, Y., Ma, Z., Wang, F., Wang, X., Yang, Y., Liu, Y., Zhao, X., Li, J., Du, H., Zhang, M., Cui, Q., Zhu, S., Sun, et al  
2019
- **Dual Arms of Adaptive Immunity: Division of Labor and Collaboration between B and T Cells.** *Cell*  
Garcia, K. C.  
2019
- **A strategy for the selection of monovalent antibodies that span protein dimer interfaces.** *The Journal of biological chemistry*  
Spangler, J. B., Moraga, I., Jude, K. M., Savvides, C. S., Garcia, K. C.  
2019
- **Spatiotemporal Dynamic of Assembly and Activation of Class II Cytokine Receptors**  
Belton, J., Wilmes, S., Richter, C. P., Mendoza, J. L., Moraga, I., Garcia, K. C., Walter, M. R., Piehler, J.  
SPRINGER.2019: S187
- **Receptor subtype discrimination using extensive shape complementary designed interfaces** *NATURE STRUCTURAL & MOLECULAR BIOLOGY*  
Dang, L. T., Miao, Y., Ha, A., Yuki, K., Park, K., Janda, C. Y., Jude, K. M., Mohan, K., Ha, N., Vallon, M., Yuan, J., Vilches-Moure, J. G., Kuo, et al  
2019; 26 (6): 407–+
- **Topological control of cytokine receptor signaling induces differential effects in hematopoiesis.** *Science (New York, N.Y.)*  
Mohan, K., Ueda, G., Kim, A. R., Jude, K. M., Fallas, J. A., Guo, Y., Hafer, M., Miao, Y., Saxton, R. A., Piehler, J., Sankaran, V. G., Baker, D., Garcia, et al  
2019; 364 (6442)
- **Receptor subtype discrimination using extensive shape complementary designed interfaces.** *Nature structural & molecular biology*  
Dang, L. T., Miao, Y., Ha, A., Yuki, K., Park, K., Janda, C. Y., Jude, K. M., Mohan, K., Ha, N., Vallon, M., Yuan, J., Vilches-Moure, J. G., Kuo, et al  
2019
- **Structure of the IFN gamma receptor complex guides design of biased agonists** *NATURE*  
Mendoza, J. L., Escalante, N. K., Jude, K. M., Bellon, J., Su, L., Horton, T. M., Tsutsumi, N., Berardinelli, S. J., Haltiwanger, R. S., Piehler, J., Engleman, E. G., Garcia, K.

2019; 567 (7746): 56-+

- **Structure of the IFN $\gamma$  receptor complex guides design of biased agonists.** *Nature*  
Mendoza, J. L., Escalante, N. K., Jude, K. M., Sotolongo Bellon, J., Su, L., Horton, T. M., Tsutsumi, N., Berardinelli, S. J., Haltiwanger, R. S., Piehler, J., Engleman, E. G., Garcia, K. C.  
2019
- **De novo design of potent and selective mimics of IL-2 and IL-15** *NATURE*  
Silva, D., Yu, S., Ulge, U. Y., Spangler, J. B., Jude, K. M., Labao-Almeida, C., Ali, L. R., Quijano-Rubio, A., Ruterbusch, M., Leung, I., Biary, T., Crowley, S. J., Marcos, et al  
2019; 565 (7738): 186-+
- **Trans-endocytosis of intact IL-15R $\alpha$ -IL-15 complex from presenting cells into NK cells favors signaling for proliferation.** *Proceedings of the National Academy of Sciences of the United States of America*  
Anton, O. M., Peterson, M. E., Hollander, M. J., Dorward, D. W., Arora, G. n., Traba, J. n., Rajagopalan, S. n., Snapp, E. L., Garcia, K. C., Waldmann, T. A., Long, E. O.  
2019
- **RasGRP1 is a potential biomarker to stratify anti-EGFR therapy response in colorectal cancer.** *JCI insight*  
Gbenedio, O. M., Bonnans, C. n., Grun, D. n., Wang, C. Y., Hatch, A. J., Mahoney, M. R., Barras, D. n., Matli, M. n., Miao, Y. n., Garcia, K. C., Tejpar, S. n., Delorenzi, M. n., Venook, et al  
2019; 5
- **Opposing T cell responses in experimental autoimmune encephalomyelitis.** *Nature*  
Saligrama, N. n., Zhao, F. n., Sikora, M. J., Serratelli, W. S., Fernandes, R. A., Louis, D. M., Yao, W. n., Ji, X. n., Idoyaga, J. n., Mahajan, V. B., Steinmetz, L. M., Chien, Y. H., Hauser, et al  
2019
- **De novo design of potent and selective mimics of IL-2 and IL-15.** *Nature*  
Silva, D., Yu, S., Ulge, U. Y., Spangler, J. B., Jude, K. M., Labao-Almeida, C., Ali, L. R., Quijano-Rubio, A., Ruterbusch, M., Leung, I., Biary, T., Crowley, S. J., Marcos, et al  
2019; 565 (7738): 186-91
- **Differential induction of interferon stimulated genes between type I and type III interferons is independent of interferon receptor abundance.** *PLoS pathogens*  
Pervolaraki, K., Rastgou Talemi, S., Albrecht, D., Bormann, F., Bamford, C., Mendoza, J. L., Garcia, K. C., McLauchlan, J., Hofer, T., Stanifer, M. L., Boulant, S.  
2018; 14 (11): e1007420
- **A RECK-WNT7 Receptor-Ligand Interaction Enables Isoform-Specific Regulation of Wnt Bioavailability.** *Cell reports*  
Vallon, M., Yuki, K., Nguyen, T. D., Chang, J., Yuan, J., Siepe, D., Miao, Y., Essler, M., Noda, M., Garcia, K. C., Kuo, C. J.  
2018; 25 (2): 339
- **T cell receptor cross-reactivity expanded by dramatic peptide-MHC adaptability** *NATURE CHEMICAL BIOLOGY*  
Riley, T. P., Hellman, L. M., Gee, M. H., Mendoza, J. L., Alonso, J. A., Foley, K. C., Nishimura, M. I., Vander Kooi, C. W., Garcia, K., Baker, B. M.  
2018; 14 (10): 934-+
- **A polymorphic residue that attenuates the antiviral potential of interferon lambda 4 in hominid lineages.** *PLoS pathogens*  
Bamford, C. G., Aranday-Cortes, E., Filipe, I. C., Sukumar, S., Mair, D., Filipe, A. d., Mendoza, J. L., Garcia, K. C., Fan, S., Tishkoff, S. A., McLauchlan, J.  
2018; 14 (10): e1007307
- **Engineering a Single-Agent Cytokine/Antibody Fusion That Selectively Expands Regulatory T Cells for Autoimmune Disease Therapy.** *Journal of immunology (Baltimore, Md. : 1950)*  
Spangler, J. B., Trotta, E., Tomala, J., Peck, A., Young, T. A., Savvides, C. S., Silveria, S., Votavova, P., Salafsky, J., Pande, V. S., Kovar, M., Bluestone, J. A., Garcia, et al  
2018
- **Isolation of a Structural Mechanism for Uncoupling T Cell Receptor Signaling from Peptide-MHC Binding.** *Cell*  
Sibener, L. V., Fernandes, R. A., Kolawole, E. M., Carbone, C. B., Liu, F., McAfee, D., Birnbaum, M. E., Yang, X., Su, L. F., Yu, W., Dong, S., Gee, M. H., Jude, et al  
2018; 174 (3): 672

- **Stress-testing the relationship between T cell receptor/peptide-MHC affinity and cross-reactivity using peptide velcro.** *Proceedings of the National Academy of Sciences of the United States of America*  
Gee, M. H., Sibener, L. V., Birnbaum, M. E., Jude, K. M., Yang, X., Fernandes, R. A., Mendoza, J. L., Glassman, C. R., Garcia, K. C.  
2018
- **A human anti-IL-2 antibody that potentiates regulatory T cells by a structure-based mechanism** *NATURE MEDICINE*  
Trotta, E., Bessette, P. H., Silveria, S. L., Ely, L. K., Jude, K. M., Le, D. T., Holst, C. R., Coyle, A., Potempa, M., Lanier, L. L., Garcia, K., Crellin, N. K., Rondon, et al  
2018; 24 (7): 1005-+
- **Disruption of TET2 promotes the therapeutic efficacy of CD19-targeted T cells** *NATURE*  
Fraietta, J. A., Nobles, C. L., Sammons, M. A., Lundh, S., Carty, S. A., Reich, T. J., Cogdill, A. P., Morrisette, J. D., DeNizio, J. E., Reddy, S., Hwang, Y., Gohil, M., Kulikovskaya, et al  
2018; 558 (7709): 307-+
- **Viral GPCR US28 can signal in response to chemokine agonists of nearly unlimited structural degeneracy** *ELIFE*  
Miles, T. F., Spiess, K., Jude, K. M., Tsutsumi, N., Burg, J. S., Ingram, J. R., Waghray, D., Hjorto, G. M., Larsen, O., Ploegh, H. L., Rosenkilde, M. M., Garcia, K.  
2018; 7
- **Discovery of a novel human anti-IL-2 antibody that potentiates Regulatory T cells by a structure-based mechanism**  
Trotta, E., Bessette, P. H., Silveria, S. L., Ely, L. K., Jude, K., Holst, C. R., Coyle, A., Garcia, C. K., Crellin, N. K., Rondon, I. J., Bluestone, J. A.  
AMER ASSOC IMMUNOLOGISTS.2018
- **Selective targeting of engineered T cells using orthogonal IL-2 cytokine-receptor complexes** *SCIENCE*  
Sokolosky, J. T., Trotta, E., Parisi, G., Picton, L., Su, L. L., Le, A. C., Chhabra, A., Silveria, S. L., George, B. M., King, I. C., Tiffany, M. R., Jude, K., Sibener, et al  
2018; 359 (6379): 1037-+
- **From T Cell Receptor to Antigen, Systems Approach to Discovering T Cell Antigen(s) in Multiple Sclerosis and Experimental Autoimmune Encephalomyelitis**  
Saligrama, N., Zhao, F., Fernandes, R. A., Serratelli, W. S., Louis, D. M., Chien, Y., Garcia, C. K., Oksenberg, J., Davis, M. M.  
SAGE PUBLICATIONS LTD.2018: 5
- **From T Cell Receptor to Antigen, Systems Approach to Discovering T Cell Antigen(s) in Multiple Sclerosis and Experimental Autoimmune Encephalomyelitis**  
Saligrama, N., Zhao, F., Fernandes, R. A., Serratelli, W. S., Louis, D. M., Chien, Y., Garcia, C. K., Oksenberg, J., Davis, M. M.  
SAGE PUBLICATIONS LTD.2018: 85
- **Antigen Identification for Orphan T Cell Receptors Expressed on Tumor-Infiltrating Lymphocytes** *CELL*  
Gee, M. H., Han, A., Lofgren, S. M., Beausang, J. F., Mendoza, J. L., Birnbaum, M. E., Bethune, M. T., Fischer, S., Yang, X., Gomez-Eerland, R., Bingham, D. B., Sibener, L. V., Fernandes, et al  
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