Stanford



Jorg Goronzy

Professor of Medicine (Immunology and Rheumatology), Emeritus

Medicine - Med/Immunology & Rheumatology

Bio

BIO

Dr. Jörg J. Goronzy specializes in the treatment of immunological and rheumatic diseases with an expertise in the care of patients with giant cell arteritis and rheumatoid arthritis. Before coming to Stanford in 2009, he was the Mason I. Lowance, M.D. Professor of Medicine at Emory University, Atlanta. From 1990 to 2003, he was on the faculty of the Mayo Clinic.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine - Med/Immunology & Rheumatology
- Member, Bio-X

PROFESSIONAL EDUCATION

- Dr. med., University of Bonn , Medicine (1979)
- Fellowship, Stanford University , Rheumatology (1986)
- Dr. med. habil, University of Heidelberg , Medicine (1988)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

T cell homeostasis and function with age

CLINICAL TRIALS

- T Cell Responses to Varicella Zoster Virus (VZV) Vaccine SLVP020, Not Recruiting
- The Influence of Chronic CMV Infection on Influenza Vaccine Responses, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (PhD Program)
- Medicine (Masters Program)

Publications

PUBLICATIONS

- **Pyroptosis, not necroptosis, drives lipid-induced CD4+ T cell death.** *Cell metabolism*

Weyand, C. M., Kothagundla, M. N., Morales, J., Werner, L. E., Wong, B., Goronzy, J. J.
2026; 38 (10): 1933-1934

- **Metabolic exhaustion and immune ageing in rheumatoid arthritis.** *Nature reviews. Rheumatology*
  Weyand, C. M., Goronzy, J. J.
  2026
- **Immune responses in aging adults.** *The Journal of clinical investigation*
  Weyand, C. M., Goronzy, J. J.
  2026; 136 (12)
- **Author Correction: Multi-omic profiling reveals age-related immune dynamics in healthy adults.** *Nature*
  Gong, Q., Sharma, M., Glass, M. C., Kuan, E. L., Chander, A., Singh, M., Graybuck, L. T., Thomson, Z. J., LaFrance, C. M., Rachid Zaim, S., Peng, T., Okada, L. Y., Genge, et al
  2026
- **Macrophage metabolic exhaustion and PANoptotic cell death drive chronic tissue inflammation in rheumatoid arthritis.** *Immunity*
  Huang, T., Takashima, Y., Kumar, J., Morales, J., Le, K., Hu, Z., Rubino, S., Trousdale, R. T., Berry, G. J., Goronzy, J. J., Weyand, C. M.
  2026
- **Lipid droplet-induced T cell death sustains autoimmune tissue inflammation.** *Cell metabolism*
  Kumar, J., Takashima, Y., Morales, J., Wong, B., Werner, L., Goronzy, I. N., Rubino, S., Trousdale, R. T., Berry, G. J., Goronzy, J. J., Weyand, C. M.
  2026
- **Antigen-specific T_H17 cells offset the age-related decline in durable T cell immunity** *SCIENCE ADVANCES*
  Sturmlechner, I., Jain, A., Jiang, J., Okuyama, H., Mu, Y., Own, M., Weyand, C. M., Goronzy, J. J.
  2026; 12 (6): eaea7131
- **Immune Age, Cardiovascular Disease, and Anti-Viral Immunity.** *Cells*
  Le, K. C., Shuja, F., Goronzy, J. J., Weyand, C. M.
  2025; 14 (22)
- **Longitudinal multi-omic immune profiling reveals age-related immune cell dynamics in healthy adults**
  Gong, Q., Sharma, M., Lo Kuan, E., Glass, M., Chander, A., Singh, M., Graybuck, L. T., Thomson, Z. J., Lafrance, C. M., Zaim, S., Peng, T., Okada, L. Y., Genge, et al
  OXFORD UNIV PRESS.2025
- **Online resources from the Allen institute for immunology: the human immune health atlas and human immune system explorer platform**
  Graybuck, L. T., La France, C., Howard, N., Liang, J., Kelsey, A., Okada, L., Thomson, Z., Gong, Q., Sharma, M., Glass, M., Chander, A., Singh, M., Zaim, et al
  OXFORD UNIV PRESS.2025
- **Multi-omic profiling reveals age-related immune dynamics in healthy adults.** *Nature*
  Gong, Q., Sharma, M., Glass, M. C., Kuan, E. L., Chander, A., Singh, M., Graybuck, L. T., Thomson, Z. J., LaFrance, C. M., Rachid Zaim, S., Peng, T., Okada, L. Y., Genge, et al
  2025
- **Sustained immune youth risks autoimmune disease in the aging host.** *Nature aging*
  Weyand, C. M., Goronzy, J. J.
  2025; 5 (8): 1404-1414
- **Antigen specificity shapes distinct aging trajectories of memory CD8# T cells.** *Nature communications*
  Sturmlechner, I., Jain, A., Hu, B., Jadhav, R. R., Cao, W., Okuyama, H., Tian, L., Weyand, C. M., Goronzy, J. J.
  2025; 16 (1): 6394
- **Perivascular Tertiary Lymphoid Structures in Autoimmune Disease.** *Immunological reviews*
  Goronzy, J. J., Weyand, C. M.
  2025; 332 (1): e70047
- **Immune Aging in Rheumatoid Arthritis.** *Arthritis & rheumatology (Hoboken, N.J.)*
  Weyand, C. M., Goronzy, J. J.

2025

- **Metabolic checkpoints in rheumatoid arthritis.** *Seminars in arthritis and rheumatism*
  Weyand, C. M., Goronzy, J. J.
  2024: 152586

- **Longitudinal Multi-omic Immune Profiling Reveals Age-Related Immune Cell Dynamics in Healthy Adults.** *bioRxiv : the preprint server for biology*
  Gong, Q., Sharma, M., Kuan, E. L., Glass, M. C., Chander, A., Singh, M., Graybuck, L. T., Thomson, Z. J., LaFrance, C. M., Zaim, S. R., Peng, T., Okada, L. Y., Genge, et al
  2024

- **Aging trajectories of memory CD8+T cells differ by their antigen specificity.** *bioRxiv : the preprint server for biology*
  Sturmlechner, I., Jain, A., Hu, B., Jadhav, R. R., Cao, W., Okuyama, H., Tian, L., Weyand, C. M., Goronzy, J. J.
  2024

- **Immune checkpoints in autoimmune vasculitis.** *Best practice & research. Clinical rheumatology*
  Sato, Y., Tada, M., Goronzy, J. J., Weyand, C. M.
  2024: 101943

- **PREX1 improves homeostatic proliferation to maintain a naive CD4 T cell compartment in older age.** *JCI insight*
  Zhang, H., Okuyama, H., Jain, A., Jadhav, R. R., Wu, B., Sturmlechner, I., Morales, J., Ohtsuki, S., Weyand, C. M., Goronzy, J. J.
  2024

- **CD4⁺ CD96⁺ T Cells Are Pathogenic Effector Cells in Giant Cell Arteritis**
  Ohtsuki, S., Morales, J., Sato, Y., Wang, C., Koster, M., Warrington, K., Berry, G. J., Goronzy, J., Weyand, C. M.
  WILEY.2023: 1602-1603

- **Immuno-permissive Antigen-presenting Cells in Giant Cell Arteritis**
  Ohtsuki, S., Wang, C., Watanabe, R., Zhang, H., Akiyama, M., Warrington, K., Berry, G. J., Goronzy, J., Weyand, C. M.
  WILEY.2023: 4767-4768

- **Stem-like CD4+ T cells in perivascular tertiary lymphoid structures sustain autoimmune vasculitis.** *Science translational medicine*
  Sato, Y., Jain, A., Ohtsuki, S., Okuyama, H., Sturmlechner, I., Takashima, Y., Le, K. C., Bois, M. C., Berry, G. J., Warrington, K. J., Goronzy, J. J., Weyand, C. M.
  2023; 15 (712): eadh0380

- **Immune aging - A mechanism in autoimmune disease.** *Seminars in immunology*
  Zheng, Y., Liu, Q., Goronzy, J. J., Weyand, C. M.
  2023; 69: 101814

- **Deficiency of the CD155-CD96 immune checkpoint controls IL-9 production in giant cell arteritis.** *Cell reports. Medicine*
  Ohtsuki, S., Wang, C., Watanabe, R., Zhang, H., Akiyama, M., Bois, M. C., Maleszewski, J. J., Warrington, K. J., Berry, G. J., Goronzy, J. J., Weyand, C. M.
  2023; 4 (4): 101012

- **CISH impairs lysosomal function in activated T cells resulting in mitochondrial DNA release and inflammaging.** *Nature aging*
  Jin, J., Mu, Y., Zhang, H., Sturmlechner, I., Wang, C., Jadhav, R. R., Xia, Q., Weyand, C. M., Goronzy, J. J.
  2023

- **TRIB2 safeguards naive Tcell homeostasis during aging.** *Cell reports*
  Cao, W., Sturmlechner, I., Zhang, H., Jin, J., Hu, B., Jadhav, R. R., Fang, F., Weyand, C. M., Goronzy, J. J.
  2023; 42 (3): 112195

- **Immunology of Giant Cell Arteritis.** *Circulation research*
  Weyand, C. M., Goronzy, J. J.
  2023; 132 (2): 238-250

- **Senescent cells as thermostats of antitumor immunity.** *Science translational medicine*
  Prieto, L. I., Sturmlechner, I., Goronzy, J. J., Baker, D. J.
  2023; 15 (699): eadg7291

- **Aging-associated HELIOS deficiency in naive CD4+ T cells alters chromatin remodeling and promotes effector cell responses.** *Nature immunology*
  Zhang, H., Jadhav, R. R., Cao, W., Goronzy, I. N., Zhao, T. V., Jin, J., Ohtsuki, S., Hu, Z., Morales, J., Greenleaf, W. J., Weyand, C. M., Goronzy, J. J.
  2022
- **Mitochondria as disease-relevant organelles in rheumatoid arthritis.** *Clinical and experimental immunology*
  Weyand, C. M., Wu, B., Huang, T., Hu, Z., Goronzy, J. J.
  2022
- **T cell aging as a risk factor for autoimmunity.** *Journal of autoimmunity*
  Liu, Q., Zheng, Y., Goronzy, J. J., Weyand, C. M.
  2022: 102947
- **PD-1 combination therapy with IL-2 modifies CD8+ T cell exhaustion program.** *Nature*
  Hashimoto, M., Araki, K., Cardenas, M. A., Li, P., Jadhav, R. R., Kissick, H. T., Hudson, W. H., McGuire, D. J., Obeng, R. C., Wieland, A., Lee, J., McManus, D. T., Ross, et al
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- **Hyperactivity of the CD155 immune checkpoint suppresses anti-viral immunity in patients with coronary artery disease.** *Nature cardiovascular research*
  Zhao, T. V., Hu, Z., Ohtsuki, S., Jin, K., Wu, B., Berry, G. J., Frye, R. L., Goronzy, J. J., Weyand, C. M.
  2022; 1 (7): 634-648
- **The transcription factor RFX5 coordinates antigen-presenting function and resistance to nutrient stress in synovial macrophages.** *Nature metabolism*
  Hu, Z., Zhao, T. V., Huang, T., Ohtsuki, S., Jin, K., Goronzy, I. N., Wu, B., Abdel, M. P., Bettencourt, J. W., Berry, G. J., Goronzy, J. J., Weyand, C. M.
  2022
- **IL-4 prevents adenosine-mediated immunoregulation by inhibiting CD39 expression.** *JCI insight*
  Fang, F., Cao, W., Mu, Y., Okuyama, H., Li, L., Qiu, J., Weyand, C. M., Goronzy, J. J.
  2022; 7 (12)
- **NEAT-seq: simultaneous profiling of intra-nuclear proteins, chromatin accessibility and gene expression in single cells.** *Nature methods*
  Chen, A. F., Parks, B., Kathiria, A. S., Ober-Reynolds, B., Goronzy, J. J., Greenleaf, W. J.
  2022
- **Reduced chromatin accessibility to CD4 T cell super-enhancers encompassing susceptibility loci of rheumatoid arthritis.** *EBioMedicine*
  Jadhav, R. R., Hu, B., Ye, Z., Sheth, K., Li, X., Greenleaf, W. J., Weyand, C. M., Goronzy, J. J.
  1800; 76: 103825
- **Corrigendum: Distinct Age-Related Epigenetic Signatures in CD4 and CD8 T Cells.** *Frontiers in immunology*
  Hu, B., Jadhav, R. R., Gustafson, C. E., Le Saux, S., Ye, Z., Li, X., Tian, L., Weyand, C. M., Goronzy, J. J.
  2022; 13: 911132
- **Regulatory T Cells in Autoimmune Vasculitis.** *Frontiers in immunology*
  Jin, K., Parreau, S., Warrington, K. J., Koster, M. J., Berry, G. J., Goronzy, J. J., Weyand, C. M.
  2022; 13: 844300
- **The influence of three-dimensional structure on naive T cell homeostasis and aging.** *Frontiers in aging*
  Lambert, S., Cao, W., Zhang, H., Colville, A., Liu, J., Weyand, C. M., Goronzy, J. J., Gustafson, C. E.
  2022; 3: 1045648
- **T-Cell Aging-Associated Phenotypes in Autoimmune Disease.** *Frontiers in aging*
  Zhao, T. V., Sato, Y., Goronzy, J. J., Weyand, C. M.
  2022; 3: 867950
- **Age as a risk factor in vasculitis.** *Seminars in immunopathology*
  Gloor, A. D., Berry, G. J., Goronzy, J. J., Weyand, C. M.
  2022

- **Mitochondrial aspartate regulates TNF biogenesis and autoimmune tissue inflammation.** *Nature immunology*
  Wu, B., Zhao, T. V., Jin, K., Hu, Z., Abdel, M. P., Warrington, K. J., Goronzy, J. J., Weyand, C. M.
  2021
- **The cell-surface 5'-nucleotidase CD73 defines a functional T memory cell subset that declines with age.** *Cell reports*
  Fang, F., Cao, W., Zhu, W., Lam, N., Li, L., Gaddam, S., Wang, Y., Kim, C., Lambert, S., Zhang, H., Hu, B., Farber, D. L., Weyand, et al
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- **Understanding T cell aging to improve anti-viral immunity.** *Current opinion in virology*
  Zhang, H., Weyand, C. M., Goronzy, J. J., Gustafson, C. E.
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- **Structural constraints in T-cell repertoire selection predicted by machine learning.** *Genes and immunity*
  Cao, W., Goronzy, J. J.
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- **Activation of mTORC1 at late endosomes misdirects T cell fate decision in older individuals.** *Science immunology*
  Jin, J., Kim, C., Xia, Q., Gould, T. M., Cao, W., Zhang, H., Li, X., Weiskopf, D., Grifoni, A., Sette, A., Weyand, C. M., Goronzy, J. J.
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- **miR-181a-regulated pathways in T-cell differentiation and aging.** *Immunity & ageing : I & A*
  Kim, C., Ye, Z., Weyand, C. M., Goronzy, J. J.
  2021; 18 (1): 28
- **Association of Premature Immune Aging and Cytomegalovirus After Solid Organ Transplant** *FRONTIERS IN IMMUNOLOGY*
  Higdon, L. E., Gustafson, C. E., Ji, X., Sahoo, M. K., Pinsky, B. A., Margulies, K. B., Maecker, H. T., Goronzy, J., Maltzman, J. S.
  2021; 12
- **Association of Premature Immune Aging and Cytomegalovirus After Solid Organ Transplant.** *Frontiers in immunology*
  Higdon, L. E., Gustafson, C. E., Ji, X., Sahoo, M. K., Pinsky, B. A., Margulies, K. B., Maecker, H. T., Goronzy, J., Maltzman, J. S.
  2021; 12: 661551
- **Influence of Lymph Node Microenvironment on Naive T cell Aging**
  Gustafson, C. E., Liu, J., Colville, A. J., Cao, W., Zhang, H., Weyand, C. M., Goronzy, J. J.
  AMER ASSOC IMMUNOLOGISTS.2021
- **Therapy-Induced Senescence: Opportunities to Improve Anti-Cancer Therapy.** *Journal of the National Cancer Institute*
  Prasanna, P. G., Citrin, D. E., Hildesheim, J., Ahmed, M. M., Venkatachalam, S., Riscuta, G., Xi, D., Zheng, G., van Deursen, J., Goronzy, J., Kron, S. J., Anscher, M. S., Sharpless, et al
  2021
- **Hallmarks of the aging T cell system.** *The FEBS journal*
  Zhang, H., Weyand, C. M., Goronzy, J. J.
  2021
- **The GSK3beta-beta-catenin-TCF1 pathway improves naive T cell activation in old adults by upregulating miR-181a.** *NPJ aging and mechanisms of disease*
  Ye, Z., Gould, T. M., Zhang, H., Jin, J., Weyand, C. M., Goronzy, J. J.
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- **Arachidonic acid-regulated calcium signaling in T cells from patients with rheumatoid arthritis promotes synovial inflammation.** *Nature communications*
  Ye, Z., Shen, Y., Jin, K., Qiu, J., Hu, B., Jadhav, R. R., Sheth, K., Weyand, C. M., Goronzy, J. J.
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- **Lysosomes in T Cell Immunity and Aging.** *Frontiers in aging*
  Jin, J., Zhang, H., Weyand, C. M., Goronzy, J. J.
  2021; 2: 809539
- **Histone deficiency and accelerated replication stress in T cell aging.** *The Journal of clinical investigation*

Kim, C., Jin, J., Ye, Z., Jadhav, R. R., Gustafson, C. E., Hu, B., Cao, W., Tian, L., Weyand, C. M., Goronzy, J. J.
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- **Metabolic Control of Autoimmunity and Tissue Inflammation in Rheumatoid Arthritis.** *Frontiers in immunology*
  Qiu, J., Wu, B., Goodman, S. B., Berry, G. J., Goronzy, J. J., Weyand, C. M.
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  Weyand, C. M., Goronzy, J. J.
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- **NOTCH-induced rerouting of endosomal trafficking disables regulatory T-cells in vasculitis.** *The Journal of clinical investigation*
  Jin, K., Wen, Z., Wu, B., Zhang, H., Qiu, J., Wang, Y., Warrington, K. J., Berry, G., Goronzy, J. J., Weyand, C. M.
  2020
- **The Transcription Factor TCF1 in T Cell Differentiation and Aging.** *International journal of molecular sciences*
  Kim, C., Jin, J., Weyand, C. M., Goronzy, J. J.
  2020; 21 (18)
- **Pathogenesis of Giant Cell Arteritis and Takayasu Arteritis-Similarities and Differences.** *Current rheumatology reports*
  Watanabe, R., Berry, G. J., Liang, D. H., Goronzy, J. J., Weyand, C. M.
  2020; 22 (10): 68
- **T Cell Aging in Hypertension.** *Cardiovascular research*
  Weyand, C. M., Goronzy, J. J.
  2020
- **One step ultra-high-throughput sequencing of the paired antibody VH:VL and TCR beta:alpha repertoired using cell lysate resistant xenopolymerase in emulsion**
  Tanno, H., McDaniel, J., Stevens, C., Voss, W., Li, J., Durrett, R., Lee, J., Gollihar, J., Tanno, Y., Delidakis, G., Pothukuchy, A., Ellefson, J., Goronzy, et al
  AMER ASSOC IMMUNOLOGISTS.2020
- **Influence of immune aging on vaccine responses.** *The Journal of allergy and clinical immunology*
  Gustafson, C. E., Kim, C., Weyand, C. M., Goronzy, J. J.
  2020; 145 (5): 1309–21
- **Homeostatic maintenance of human T cells in bioengineered secondary lymphoid organoids - a model for studying age-related immune decline**
  Gustafson, C., Lambert, S., Weyand, C. M., Goronzy, J. J.
  AMER ASSOC IMMUNOLOGISTS.2020
- **FOXO1 deficiency impairs proteostasis in aged T cells.** *Science advances*
  Jin, J., Li, X., Hu, B., Kim, C., Cao, W., Zhang, H., Weyand, C. M., Goronzy, J. J.
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- **A facile technology for the high-throughput sequencing of the paired VH:VL and TCR beta:TCR alpha repertoires** *SCIENCE ADVANCES*
  Tanno, H., McDaniel, J. R., Stevens, C. A., Voss, W. N., Li, J., Durrett, R., Lee, J., Gollihar, J., Tanno, Y., Delidakis, G., Pothukuchy, A., Ellefson, J. W., Goronzy, et al
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- **FOXO1 deficiency impairs proteostasis in aged T cells** *SCIENCE ADVANCES*
  Jin, J., Li, X., Hu, B., Kim, C., Cao, W., Zhang, H., Weyand, C. M., Goronzy, J. J.
  2020; 6 (17)
- **Immune cell repertoires in breast cancer patients after adjuvant chemotherapy.** *JCI insight*
  Gustafson, C. E., Jadhav, R., Cao, W., Qi, Q., Pegram, M., Tian, L., Weyand, C. M., Goronzy, J. J.
  2020; 5 (4)
- **Immunometabolism in the development of rheumatoid arthritis.** *Immunological reviews*
  Weyand, C. M., Goronzy, J. J.

2020

- **Ecto-NTPDase CD39 is a negative checkpoint that inhibits follicular helper cell generation.** *The Journal of clinical investigation*
  Cao, W. n., Fang, F. n., Gould, T. n., Li, X. n., Kim, C. n., Gustafson, C. n., Lambert, S. n., Weyand, C. M., Goronzy, J. J.
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- **Metabolic Fitness of T Cells in Autoimmune Disease.** *Immunometabolism*
  Wu, B., Goronzy, J. J., Weyand, C. M.
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- **Cellular Signaling Pathways in Medium and Large Vessel Vasculitis.** *Frontiers in immunology*
  Watanabe, R., Berry, G. J., Liang, D. H., Goronzy, J. J., Weyand, C. M.
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- **Innate and Adaptive Immunity in Giant Cell Arteritis.** *Frontiers in immunology*
  Akiyama, M. n., Ohtsuki, S. n., Berry, G. J., Liang, D. H., Goronzy, J. J., Weyand, C. M.
  2020; 11: 621098
- **Distinct Age-Related Epigenetic Signatures in CD4 and CD8 T Cells.** *Frontiers in immunology*
  Hu, B., Jadhav, R. R., Gustafson, C. E., Le Saux, S., Ye, Z., Li, X., Tian, L., Weyand, C. M., Goronzy, J. J.
  2020; 11: 585168
- **Succinyl-CoA Ligase Deficiency in Pro-inflammatory and Tissue-Invasive T Cells.** *Cell metabolism*
  Wu, B. n., Qiu, J. n., Zhao, T. V., Wang, Y. n., Maeda, T. n., Goronzy, I. N., Akiyama, M. n., Ohtsuki, S. n., Jin, K. n., Tian, L. n., Goronzy, J. J., Weyand, C. M.
  2020; 32 (6): 967–80.e5
- **Large and Medium-Vessel Vasculitides** *AUTOIMMUNE DISEASES, 6TH EDITION*
  Weyand, C. M., Goronzy, J. J.
  edited by Rose, N. R., Mackay, I. R.
  2020: 1313–34
- **Neutrophil Extracellular Traps Induce Tissue-Invasive Macrophages in Granulomatosis with Polyangiitis Dominated by Ear, Nose and Throat Manifestations**
  Akiyama, M., Ibrahim, N., Zeisbrich, M., Hwang, P., Goronzy, J., Weyand, C.
  WILEY.2019
- **Lysosomal Placement of the Energy Sensors AMPK and mTORC1 Controls Tissue Inflammation in Rheumatoid Arthritis**
  Wen, Z., Jin, K., Li, Y., Wu, B., Goronzy, J., Weyand, C.
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- **Loss-of-function of the DNA Repair Nuclease MRE11A Induces Mitochondrial Failure and Tissue Inflammation in Rheumatoid Arthritis**
  Li, Y., Shen, Y., Jin, K., Wen, Z., Cao, W., Wu, B., Wen, R., Tian, L., Berry, G., Goronzy, J., Weyand, C.
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- **Metabolic Signatures of Pathogenic T Cells in Medium and Large Vessel Vasculitis**
  Akiyama, M., Zhang, H., Watanabe, R., Maeda, T., Berry, G., Goronzy, J., Weyand, C.
  WILEY.2019
- **Cytokines, growth factors and proteases in medium and large vessel vasculitis** *CLINICAL IMMUNOLOGY*
  Weyand, C. M., Watanabe, R., Zhang, H., Akiyama, M., Berry, G. J., Goronzy, J. J.
  2019; 206: 33–41
- **The DNA Repair Nuclease MRE11A Functions as a Mitochondrial Protector and Prevents T Cell Pyroptosis and Tissue Inflammation.** *Cell metabolism*
  Li, Y., Shen, Y., Jin, K., Wen, Z., Cao, W., Wu, B., Wen, R., Tian, L., Berry, G. J., Goronzy, J. J., Weyand, C. M.
  2019
- **Transcription factor networks in aged naive CD4 T cells bias lineage differentiation.** *Aging cell*
  Hu, B., Li, G., Ye, Z., Gustafson, C. E., Tian, L., Weyand, C. M., Goronzy, J. J.
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- **Epigenetic signature of PD-1+ TCF1+ CD8 T cells that act as resource cells during chronic viral infection and respond to PD-1 blockade.** *Proceedings of the National Academy of Sciences of the United States of America*
  Jadhav, R. R., Im, S. J., Hu, B., Hashimoto, M., Li, P., Lin, J., Leonard, W. J., Greenleaf, W. J., Ahmed, R., Goronzy, J. J.
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- **CD28 AS A POTENTIAL THERAPEUTIC TARGET FOR GIANT CELL ARTERITIS**
  Watanabe, R., Zhang, H., Berry, G., Nadler, S., Goronzy, J., Weyand, C.
  BMJ PUBLISHING GROUP.2019: 146
- **CD28 Signaling Controls Metabolic Fitness of Pathogenic T Cells in Medium and Large Vessel Vasculitis** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
  Zhang, H., Watanabe, R., Berry, G. J., Nadler, S. G., Goronzy, J. J., Weyand, C. M.
  2019; 73 (14): 1811–23
- **N-myristoyltransferase deficiency impairs activation of kinase AMPK and promotes synovial tissue inflammation** *NATURE IMMUNOLOGY*
  Wen, Z., Jin, K., Shen, Y., Yang, Z., Li, Y., Wu, B., Tian, L., Shoor, S., Roche, N. E., Goronzy, J. J., Weyand, C. M.
  2019; 20 (3): 313-+
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