

Stanford



Cornelia Weyand

Professor of Medicine (Immunology and Rheumatology), Emerita
Medicine - Immunology & Rheumatology

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine - Immunology & Rheumatology
- Member, Bio-X
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Center for Translational Medicine, Stanford University School of Medicine, (2019- present)
- Chief, Division of Immunology and Rheumatology, Stanford University School of Medicine, (2013-2019)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Autoimmunity

Chronic inflammatory disease

Metabolic control of immune function

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Alex Muselman

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)
- Medicine (Masters Program)

Publications

PUBLICATIONS

- **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
- **Immunology of Giant Cell Arteritis.** *Circulation research*

- Weyand, C. M., Goronzy, J. J.
2023; 132 (2): 238-250
- **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
 - **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 immunology of rheumatoid arthritis.** *Nature immunology*
Weyand, C. M., Goronzy, J. J.
2020
 - **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
 - **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
 - **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-+
 - **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
 - **Glucose metabolism controls disease-specific signatures of macrophage effector functions** *JCI INSIGHT*
Watanabe, R., Hilhorst, M., Zhang, H., Zeisbrich, M., Berry, G. J., Wallis, B. B., Harrison, D. G., Giacomini, J. C., Goronzy, J. J., Weyand, C. M.
2018; 3 (20)
 - **A Mitochondrial Checkpoint in Autoimmune Disease.** *Cell metabolism*
Weyand, C. M., Goronzy, J. J.
2018; 28 (2): 185–86
 - **Inhibition of JAK-STAT Signaling Suppresses Pathogenic Immune Responses in Medium and Large Vessel Vasculitis** *CIRCULATION*
Zhang, H., Watanabe, R., Berry, G. J., Tian, L., Goronzy, J. J., Weyand, C. M.
2018; 137 (18): 1934–48
 - **Immunoinhibitory checkpoint deficiency in medium and large vessel vasculitis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Zhang, H., Watanabe, R., Berry, G. J., Vaglio, A., Liao, Y. J., Warrington, K. J., Goronzy, J. J., Weyand, C. M.
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 - **The microvascular niche instructs T cells in large vessel vasculitis via the VEGF-Jagged1-Notch pathway.** *Science translational medicine*
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2017; 9 (399)
 - **Metabolic control of the scaffold protein TKS5 in tissue-invasive, proinflammatory T cells.** *Nature immunology*
Shen, Y. n., Wen, Z. n., Li, Y. n., Matteson, E. L., Hong, J. n., Goronzy, J. J., Weyand, C. M.
2017; 18 (9): 1025–34

- **Deficient Activity of the Nuclease MRE11A Induces T Cell Aging and Promotes Arthritogenic Effector Functions in Patients with Rheumatoid Arthritis.** *Immunity*
Li, Y., Shen, Y., Hohensinner, P., Ju, J., Wen, Z., Goodman, S. B., Zhang, H., Goronzy, J. J., Weyand, C. M.
2016; 45 (4): 903-916
- **NADPH oxidase deficiency underlies dysfunction of aged CD8(+) Tregs** *JOURNAL OF CLINICAL INVESTIGATION*
Wen, Z., Shimojima, Y., Shirai, T., Li, Y., Ju, J., Yang, Z., Tian, L., Goronzy, J. J., Weyand, C. M.
2016; 126 (5): 1953-1967
- **Restoring oxidant signaling suppresses proarthritogenic T cell effector functions in rheumatoid arthritis.** *Science translational medicine*
Yang, Z., Shen, Y., Oishi, H., Matteson, E. L., Tian, L., Goronzy, J. J., Weyand, C. M.
2016; 8 (331): 331ra38-?
- **The glycolytic enzyme PKM2 bridges metabolic and inflammatory dysfunction in coronary artery disease** *JOURNAL OF EXPERIMENTAL MEDICINE*
Shirai, T., Nazarewicz, R. R., Wallis, B. B., Yanes, R. E., Watanabe, R., Hilhorst, M., Tian, L., Harrison, D. G., Giacomini, J. C., Assimes, T. L., Goronzy, J. J., Weyand, C. M.
2016; 213 (3): 337-354
- **Blocking the NOTCH Pathway Inhibits Vascular Inflammation in Large-Vessel Vasculitis** *CIRCULATION*
Piggott, K., Deng, J., Warrington, K., Younge, B., Kubo, J. T., Desai, M., Goronzy, J. J., Weyand, C. M.
2011; 123 (3): 309-U180
- **DNA-dependent protein kinase catalytic subunit mediates T-cell loss in rheumatoid arthritis** *EMBO MOLECULAR MEDICINE*
Shao, L., Goronzy, J. J., Weyand, C. M.
2010; 2 (10): 415-427
- **Th17 and Th1 T-Cell Responses in Giant Cell Arteritis** *CIRCULATION*
Deng, J., Younge, B. R., Olshen, R. A., Goronzy, J. J., Weyand, C. M.
2010; 121 (7): 906-U107
- **Immune checkpoints in autoimmune vasculitis.** *Best practice & research. Clinical rheumatology*
Sato, Y., Tada, M., Goronzy, J. J., Weyand, C. M.
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- **A Pathogenetic Model of IgG4-related Disease Developed from Familial IKZF1 and UBR4 Gene Variants**
Liu, Q., Warrington, K., Koster, M., Weyand, C. M., Goronzy, J.
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- **Pharmacological Inhibition of PRMT5 Demonstrates Broad Efficacy in Multiple Preclinical Models of Autoimmunity and Inflammation by Suppressing Th1, Th17 and TNF-Mediated Inflammatory Responses**
Bhagwat, N., Penmetsa, K., Devalaraja, M., Marusic, S., Weyand, C. M., Ohtsuki, S., Scherle, P., Vaddi, K.
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- **Use of High-plex Data Reveals Novel Insights into the Temporal Artery Processus of Giant Cell Arteritis**
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WILEY.2023: 29-30
- **Immune aging - A mechanism in autoimmune disease.** *Seminars in immunology*
Zheng, Y., Liu, Q., Goronzy, J. J., Weyand, C. M.
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- **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.
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- **CISH impairs lysosomal function in activated T cells resulting in mitochondrial DNA release and inflamminging.** *Nature aging*
Jin, J., Mu, Y., Zhang, H., Sturmlechner, I., Wang, C., Jadhav, R. R., Xia, Q., Weyand, C. M., Goronzy, J. J.
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- **TRIB2 safeguards naive Tcell homeostasis during aging.** *Cell reports*

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- **Aging-associated HELIOS deficiency in naive CD4+ T cells alters chromatin remodeling and promotes effector cell responses.** *Nature immunology*
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- **Mitochondria as disease-relevant organelles in rheumatoid arthritis.** *Clinical and experimental immunology*
Weyand, C. M., Wu, B., Huang, T., Hu, Z., Goronzy, J. J.
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- **T cell aging as a risk factor for autoimmunity.** *Journal of autoimmunity*
Liu, Q., Zheng, Y., Goronzy, J. J., Weyand, C. M.
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- **Immune Responses and Disease Marker Changes Following SARS-CoV-2 mRNA Vaccination in a Cohort of Rheumatic Disease Patients**
An, Z., Zhou, X., Li, Y., Jaquith, J., McCarthy-Fruin, K., Warrington, K. J., Duarte-Garcia, A., Thanarajasingam, U., Weyand, C. M., Zeng, H.
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- **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.
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- **Reduced chromatin accessibility to CD4 T cell super-enhancers encompassing susceptibility loci of rheumatoid arthritis.** *EBioMedicine*
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- **Large-vessel vasculitis.** *Nature reviews. Disease primers*
Pugh, D., Karabayas, M., Basu, N., Cid, M. C., Goel, R., Goodyear, C. S., Grayson, P. C., McAdoo, S. P., Mason, J. C., Owen, C., Weyand, C. M., Youngstein, T., Dhaun, et al
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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.
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- **Regulatory T Cells in Autoimmune Vasculitis.** *Frontiers in immunology*
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- **The cell-surface 5'-nucleotidase CD73 defines a functional T memory cell subset that declines with age.** *Cell reports*
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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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Kim, C., Ye, Z., Weyand, C. M., Goronzy, J. J.
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- **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.
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- **Hallmarks of the aging T cell system.** *The FEBS journal*
Zhang, H., Weyand, C. M., Goronzy, J. J.
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- **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*
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- **Lysosomes in T Cell Immunity and Aging.** *Frontiers in aging*
Jin, J., Zhang, H., Weyand, C. M., Goronzy, J. J.
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- **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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Qiu, J., Wu, B., Goodman, S. B., Berry, G. J., Goronzy, J. J., Weyand, C. M.
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Kim, C., Jin, J., Weyand, C. M., Goronzy, J. J.
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- **Pathogenesis of Giant Cell Arteritis and Takayasu Arteritis-Similarities and Differences.** *Current rheumatology reports*
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- **T Cell Aging in Hypertension.** *Cardiovascular research*
Weyand, C. M., Goronzy, J. J.
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- **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.
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- **FOXO1 deficiency impairs proteostasis in aged T cells** *SCIENCE ADVANCES*
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● **FOXO1 deficiency impairs proteostasis in aged T cells.** *Science advances*

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● **Immune cell repertoires in breast cancer patients after adjuvant chemotherapy.** *JCI insight*

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● **Immunometabolism in the development of rheumatoid arthritis.** *Immunological reviews*

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● **Innate and Adaptive Immunity in Giant Cell Arteritis.** *Frontiers in immunology*

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● **Distinct Age-Related Epigenetic Signatures in CD4 and CD8 T Cells.** *Frontiers in immunology*

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● **Cellular Signaling Pathways in Medium and Large Vessel Vasculitis.** *Frontiers in immunology*

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● **Large and Medium-Vessel Vasculitides AUTOIMMUNE DISEASES, 6TH EDITION**

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● **Ecto-NTPDase CD39 is a negative checkpoint that inhibits follicular helper cell generation.** *The Journal of clinical investigation*

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● **Metabolic Fitness of T Cells in Autoimmune Disease.** *Immunometabolism*

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● **GM-CSF Is a Pro-Inflammatory Cytokine in Experimental Vasculitis of Medium and Large Arteries**

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● **Lysosomal Placement of the Energy Sensors AMPK and mTORC1 Controls Tissue Inflammation in Rheumatoid Arthritis**

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● **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.
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● **Loss-of-function of the DNA Repair Nuclease MRE11A Induces Mitochondrial Failure and Tissue Inflammation in Rheumatoid Arthritis**

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● **Metabolic Signatures of Pathogenic T Cells in Medium and Large Vessel Vasculitis**

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● **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.
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- **Geographical variations in ocular and extra-ocular manifestations in Behcet's disease.** *European journal of rheumatology*
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- **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.
2019: e12957
- **CD28 AS A POTENTIAL THERAPEUTIC TARGET FOR GIANT CELL ARTERITIS**
Watanabe, R., Zhang, H., Berry, G., Nadler, S., Goronzy, J., Weyand, C.
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- **OSTEOPOROSIS AND RISK OF GIANT CELL ARTERITIS: A COMPARATIVE STUDY**
Le Pendu, C., Tchouante, P., Ly, K., Alexandra, J., Aslanbekova, N., Benali, K., Gonzalez-Chiappe, S., Lechtman, S., Sene, D., Weyand, C., Sacre, K., Mahr, A.
BMJ PUBLISHING GROUP.2019: 1760
- **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
- **OSTEOPOROSIS AND RISK OF GIANT CELL ARTERITIS: A COMPARATIVE STUDY**
Le Pendu, C., Tchouante, P., Ly, K., Alexandra, J., Aslanbekova, N., Benali, K., Gonzalez-Chiappe, S., Lechtman, S., Sene, D., Weyand, C., Sacre, K., Mahr, A.
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- **Cytokines, growth factors and proteases in medium and large vessel vasculitis.** *Clinical immunology (Orlando, Fla.)*
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2019
- **Functional pathways regulated by microRNA networks in CD8 T-cell aging** *AGING CELL*
Gustafson, C. E., Cavanagh, M. M., Jin, J., Weyand, C. M., Goronzy, J. J.
2019; 18 (1)
- **Mechanisms underlying T cell ageing.** *Nature reviews. Immunology*
Goronzy, J. J., Weyand, C. M.
2019
- **The metabolic signature of T cells in rheumatoid arthritis.** *Current opinion in rheumatology*
Weyand, C. M., Wu, B. n., Goronzy, J. J.
2019
- **Determinants governing T cell receptor ##-chain pairing in repertoire formation of identical twins.** *Proceedings of the National Academy of Sciences of the United States of America*
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2019
- **Chronic inflammation in the etiology of disease across the life span.** *Nature medicine*
Furman, D. n., Campisi, J. n., Verdin, E. n., Carrera-Bastos, P. n., Targ, S. n., Franceschi, C. n., Ferrucci, L. n., Gilroy, D. W., Fasano, A. n., Miller, G. W., Miller, A. H., Mantovani, A. n., Weyand, et al
2019; 25 (12): 1822–32
- **Neutrophil Extracellular Traps Induce Tissue-Invasive Monocytes in Granulomatosis With Polyangiitis.** *Frontiers in immunology*
Akiyama, M. n., Zeisbrich, M. n., Ibrahim, N. n., Ohtsuki, S. n., Berry, G. J., Hwang, P. H., Goronzy, J. J., Weyand, C. M.
2019; 10: 2617

- **Defects in Antiviral T Cell Responses Inflicted by Aging-Associated miR-181a Deficiency.** *Cell reports*
Kim, C. n., Jadhav, R. R., Gustafson, C. E., Smithey, M. J., Hirsch, A. J., Uhrlaub, J. L., Hildebrand, W. H., Nikolich-Žugich, J. n., Weyand, C. M., Goronzy, J. J.
2019; 29 (8): 2202–16.e5
- **Metabolic reprogramming in memory CD4 T cell responses of old adults.** *Clinical immunology (Orlando, Fla.)*
Yanes, R. E., Zhang, H. n., Shen, Y. n., Weyand, C. M., Goronzy, J. J.
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Kim, C., Hu, B., Jadhav, R. R., Jin, J., Zhang, H., Cavanagh, M. M., Akondy, R. S., Ahmed, R., Weyand, C. M., Goronzy, J. J.
2018; 25 (8): 2148
- **Activation of miR-21-Regulated Pathways in Immune Aging Selects against Signatures Characteristic of Memory T Cells** *CELL REPORTS*
Kim, C., Hu, B., Jadhav, R. R., Jin, J., Zhang, H., Cavanagh, M. M., Akondy, R. S., Ahmed, R., Weyand, C. M., Goronzy, J. J.
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