

Stanford



Jorg Goronzy

Professor of Medicine (Immunology and Rheumatology)

Medicine - Immunology & Rheumatology

CLINICAL OFFICES

- **Immunology and Rheumatology Clinic**

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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.

CLINICAL FOCUS

- Vasculitis
- Rheumatoid Arthritis
- Allergy and Immunology

ACADEMIC APPOINTMENTS

- Professor, Medicine - Immunology & Rheumatology
- Member, Bio-X

PROFESSIONAL EDUCATION

- Medical Education: RWTH Aachen School of Medicine (1979) Germany
- Dr. med., University of Bonn , Medicine (1979)
- Fellowship: German Cancer Research Center (1981) Germany
- Residency: Hannover Medical School (1984)
- 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

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Wenqiang Cao, Timothy Gould, Claire Gustafson, Rohit Jadhav, Jun Jin, Chulwoo Kim, Xuanying Li, Xueping Li, Shozo Ohtsuki, Jingtao Qiu, Huimin Zhang

Postdoctoral Research Mentor

Wenqiang Cao, Timothy Gould, Claire Gustafson, Rohit Jadhav, Jun Jin, Chulwoo Kim, Xuanying Li, Xueping Li, Shozo Ohtsuki, Jingtao Qiu, Huimin Zhang

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **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
- **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.
2019
- **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+
- **Cytokines, growth factors and proteases in medium and large vessel vasculitis.** *Clinical immunology (Orlando, Fla.)*
Weyand, C. M., Watanabe, R., Zhang, H., Akiyama, M., Berry, G. J., Goronzy, J. J.

2019

- **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
- **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)
- **Metabolic reprogramming in memory CD4 T cell responses of old adults.** *Clinical immunology (Orlando, Fla.)*
Yanes, R. E., Zhang, H., Shen, Y., Weyand, C. M., Goronzy, J. J.
2019
- **Mechanisms underlying T cell ageing.** *Nature reviews. Immunology*
Goronzy, J. J., Weyand, C. M.
2019
- **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.
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.
2018; 25 (8): 2148+
- **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)
- **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)
- **Epigenetics of Tcell aging** *JOURNAL OF LEUKOCYTE BIOLOGY*
Goronzy, J. J., Hu, B., Kim, C., Jadhav, R. R., Weyand, C. M.
2018; 104 (4): 691–99
- **T follicular helper cell development and functionality in immune ageing.** *Clinical science (London, England : 1979)*
Gustafson, C. E., Weyand, C. M., Goronzy, J. J.
2018; 132 (17): 1925–35
- **T follicular helper cell development and functionality in immune ageing** *CLINICAL SCIENCE*
Gustafson, C. E., Weyand, C. M., Goronzy, J. J.
2018; 132 (17): 1925–35
- **Redox-sensitive signaling in inflammatory T cells and in autoimmune disease** *FREE RADICAL BIOLOGY AND MEDICINE*
Weyand, C. M., Shen, Y., Goronzy, J. J.
2018; 125: 36–43
- **MMP (Matrix Metalloprotease)-9-Producing Monocytes Enable T Cells to Invade the Vessel Wall and Cause Vasculitis** *CIRCULATION RESEARCH*
Watanabe, R., Maeda, T., Zhang, H., Berry, G. J., Zeisbrich, M., Brockett, R., Greenstein, A. E., Tian, L., Goronzy, J. J., Weyand, C. M.
2018; 123 (6): 700–715
- **A Mitochondrial Checkpoint in Autoimmune Disease.** *Cell metabolism*
Weyand, C. M., Goronzy, J. J.
2018; 28 (2): 185–86
- **A Mitochondrial Checkpoint in Autoimmune Disease** *CELL METABOLISM*
Weyand, C. M., Goronzy, J. J.

2018; 28 (2): 185–86

- **Regulation of miR-181a expression in T cell aging.** *Nature communications*
Ye, Z., Li, G., Kim, C., Hu, B., Jadhav, R. R., Weyand, C. M., Goronzy, J. J.
2018; 9 (1): 3060
- **Regulation of miR-181a expression in T cell aging** *NATURE COMMUNICATIONS*
Ye, Z., Li, G., Kim, C., Hu, B., Jadhav, R. R., Weyand, C. M., Goronzy, J. J.
2018; 9
- **Matrix Metalloprotease-9 (MMP-9)-Producing Monocytes Enable T Cells to Invade the Vessel Wall and Cause Vasculitis.** *Circulation research*
Watanabe, R., Maeda, T., Zhang, H., Berry, G. J., Zeisbrich, M., Brockett, R. D., Greenstein, A. E., Tian, L., Goronzy, J., Weyand, C. M.
2018
- **Hypermetabolic macrophages in rheumatoid arthritis and coronary artery disease due to glycogen synthase kinase 3b inactivation** *ANNALS OF THE RHEUMATIC DISEASES*
Zeisbrich, M., Yanes, R. E., Zhang, H., Watanabe, R., Li, Y., Brosig, L., Hong, J., Wallis, B. B., Giacomini, J. C., Assimes, T. L., Goronzy, J. J., Weyand, C. M.
2018; 77 (7): 1053–62
- **Epigenetics of Tcell aging.** *Journal of leukocyte biology*
Goronzy, J. J., Hu, B., Kim, C., Jadhav, R. R., Weyand, C. M.
2018
- **Vaccination programs for older adults in an era of demographic change** *EUROPEAN GERIATRIC MEDICINE*
Doherty, T., Connolly, M. P., Del Giudice, G., Flamaing, J., Goronzy, J. J., Grubeck-Loebenstien, B., Lambert, P., Maggi, S., McElhaney, J. E., Nagai, H., Schaffner, W., Schmidt-Ott, R., Walsh, et al
2018; 9 (3): 289–300
- **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
- **DNA damage, metabolism and aging in pro-inflammatory T cells Rheumatoid arthritis as a model system** *EXPERIMENTAL GERONTOLOGY*
Li, Y., Goronzy, J. J., Weyand, C. M.
2018; 105: 118–27
- **Redox-sensitive signaling in inflammatory T cells and in autoimmune disease.** *Free radical biology & medicine*
Weyand, C. M., Shen, Y., Goronzy, J. J.
2018
- **The immunoinhibitory PD-1/PD-L1 pathway in inflammatory blood vessel disease.** *Journal of leukocyte biology*
Weyand, C. M., Berry, G. J., Goronzy, J. J.
2018; 103 (3): 565–75
- **The immunoinhibitory PD-1/PD-L1 pathway in inflammatory blood vessel disease**
Weyand, C. M., Berry, G. J., Goronzy, J. J.
WILEY.2018: 565–75
- **Hypermetabolic macrophages in rheumatoid arthritis and coronary artery disease due to glycogen synthase kinase 3b inactivation.** *Annals of the rheumatic diseases*
Zeisbrich, M., Yanes, R. E., Zhang, H., Watanabe, R., Li, Y., Brosig, L., Hong, J., Wallis, B. B., Giacomini, J. C., Assimes, T. L., Goronzy, J. J., Weyand, C. M.
2018
- **Vaccination programs for older adults in an era of demographic change.** *European geriatric medicine*
Doherty, T. M., Connolly, M. P., Del Giudice, G., Flamaing, J., Goronzy, J. J., Grubeck-Loebenstien, B., Lambert, P. H., Maggi, S., McElhaney, J. E., Nagai, H., Schaffner, W., Schmidt-Ott, R., Walsh, et al
2018; 9 (3): 289–300
- **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.
2018: e12879

- **Fighting against a protean enemy: immunosenescence, vaccines, and healthy aging.** *NPJ aging and mechanisms of disease*
Del Giudice, G., Goronzy, J. J., Grubeck-Loebenstien, B., Lambert, P. H., Mrkvan, T., Stoddard, J. J., Doherty, T. M.
2018; 4: 1
- **Origin and differentiation of human memory CD8 T cells after vaccination** *NATURE*
Akondy, R. S., Fitch, M., Edupuganti, S., Yang, S., Kissick, H. T., Li, K. W., Youngblood, B. A., Abdelsamed, H. A., McGuire, D. J., Cohen, K. W., Alexe, G., Nagar, S., McCausland, et al
2017; 552 (7685): 362-+
- **Fighting against a protean enemy: immunosenescence, vaccines, and healthy aging** *NPJ AGING AND MECHANISMS OF DISEASE*
Del Giudice, G., Goronzy, J. J., Grubeck-Loebenstien, B., Lambert, P., Mrkvan, T., Stoddard, J. J., Doherty, T.
2017; 4
- **Comparative Analysis of the Macrophage Glycolytic Machinery in Giant Cell Arteritis (GCA) and in Coronary Artery Disease (CAD)**
Weyand, C. M., Watanabe, R., Shirai, T., Zhang, H., Berry, G., Goronzy, J.
WILEY.2017
- **Metabolic Activity Sustains Macrophage Cytokine Production in Rheumatoid Arthritis and Coronary Artery Disease**
Weyand, C. M., Zeisbrich, M., Brosig, L., Wallis, B., Roche, N., Lin, J., Goronzy, J.
WILEY.2017
- **Tissue-Invasive T Cells in Rheumatoid Arthritis**
Weyand, C. M., Shen, Y., Li, Y., Matteson, E. L., Goodman, S., Goronzy, J.
WILEY.2017
- **The Microvascular Niche Instructs Pathogenic T Cells in Medium and Large Vessel Vasculitis**
Weyand, C. M., Wen, Z., Shen, Y., Berry, G., Liao, J., Goronzy, J.
WILEY.2017
- **Immune Checkpoint Function of CD85j in CD8 T Cell Differentiation and Aging** *FRONTIERS IN IMMUNOLOGY*
Gustafson, C. E., Qi, Q., Hutter-Saunders, J., Gupta, S., Jadhav, R., Newell, E., Maecker, H., Weyand, C. M., Goronzy, J. J.
2017; 8: 692
- **Metabolic signatures of T-cells and macrophages in rheumatoid arthritis** *CURRENT OPINION IN IMMUNOLOGY*
Weyand, C. M., Zeisbrich, M., Goronzy, J. J.
2017; 46: 112–20
- **Immunometabolism in early and late stages of rheumatoid arthritis.** *Nature reviews. Rheumatology*
Weyand, C. M., Goronzy, J. J.
2017; 13 (5): 291-301
- **Immune checkpoint dysfunction in large and medium vessel vasculitis.** *American journal of physiology. Heart and circulatory physiology*
Watanabe, R., Zhang, H., Berry, G., Goronzy, J. J., Weyand, C. M.
2017; 312 (5): H1052-H1059
- **Immunometabolism in early and late stages of rheumatoid arthritis** *NATURE REVIEWS RHEUMATOLOGY*
Weyand, C. M., Goronzy, J. J.
2017; 13 (5): 1-11
- **Response to Comment on "Diversification of the antigen-specific T cell receptor repertoire after varicella zoster vaccination".** *Science translational medicine*
Goronzy, J., Qi, Q., Weyand, C.
2017; 9 (382)
- **Response to Comment on "Diversification of the antigen-specific T cell receptor repertoire after varicella zoster vaccination"** *SCIENCE TRANSLATIONAL MEDICINE*
Goronzy, J., Qi, Q., Weyand, C.
2017; 9 (382)
- **Successful and Maladaptive T Cell Aging** *IMMUNITY*

- Goronzy, J. J., Weyand, C. M.
2017; 46 (3): 364-378
- **Clinical and pathological evolution of giant cell arteritis: a prospective study of follow-up temporal artery biopsies in 40 treated patients.** *Modern pathology*
Maleszewski, J. J., Younge, B. R., Fritzen, J. T., Hunder, G. G., Goronzy, J. J., Warrington, K. J., Weyand, C. M.
2017
 - **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.
2017; 114 (6): E970-E979
 - **Epigenomics of human CD8 T cell differentiation and aging.** *Science immunology*
Moskowitz, D. M., Zhang, D. W., Hu, B., Le Saux, S., Yanes, R. E., Ye, Z., Buenrostro, J. D., Weyand, C. M., Greenleaf, W. J., Goronzy, J. J.
2017; 2 (8)
 - **Epigenomics of human CD8 T cell differentiation and aging** *SCIENCE IMMUNOLOGY*
Moskowitz, D. M., Zhang, D. W., Hu, B., Le Saux, S., Yanes, R. E., Ye, Z., Buenrostro, J. D., Weyand, C. M., Greenleaf, W. J., Goronzy, J. J.
2017; 2 (8)
 - **Lymphocyte generation and population homeostasis throughout life** *SEMINARS IN HEMATOLOGY*
Yanes, R. E., Gustafson, C. E., Weyand, C. M., Goronzy, J. J.
2017; 54 (1): 33-38
 - **Metabolic control of the scaffold protein TKS5 in tissue-invasive, proinflammatory T cells.** *Nature immunology*
Shen, Y., Wen, Z., Li, Y., Matteson, E. L., Hong, J., Goronzy, J. J., Weyand, C. M.
2017; 18 (9): 1025-34
 - **Pyruvate controls the checkpoint inhibitor PD-L1 and suppresses T cell immunity.** *The Journal of clinical investigation*
Watanabe, R., Shirai, T., Namkoong, H., Zhang, H., Berry, G. J., Wallis, B. B., Schaeffgen, B., Harrison, D. G., Tremmel, J. A., Giacomini, J. C., Goronzy, J. J., Weyand, C. M.
2017; 127 (7): 2725-38
 - **The microvascular niche instructs T cells in large vessel vasculitis via the VEGF-Jagged1-Notch pathway.** *Science translational medicine*
Wen, Z., Shen, Y., Berry, G., Shahram, F., Li, Y., Watanabe, R., Liao, Y. J., Goronzy, J. J., Weyand, C. M.
2017; 9 (399)
 - **The life cycle of a T cell after vaccination - where does immune ageing strike?** *CLINICAL AND EXPERIMENTAL IMMUNOLOGY*
Kim, C., Fang, F., Weyand, C. M., Goronzy, J. J.
2017; 187 (1): 71-81
 - **Aging of the Immune System. Mechanisms and Therapeutic Targets.** *Annals of the American Thoracic Society*
Weyand, C. M., Goronzy, J. J.
2016; 13: S422-S428
 - **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
 - **Defective T Memory Cell Differentiation after Varicella Zoster Vaccination in Older Individuals.** *PLoS pathogens*
Qi, Q., Cavanagh, M. M., Le Saux, S., Wagar, L. E., Mackey, S., Hu, J., Maecker, H., Swan, G. E., Davis, M. M., Dekker, C. L., Tian, L., Weyand, C. M., Goronzy, J. J.
2016; 12 (10)
 - **Switching from Anabolic to Catabolic Metabolism - a Novel Immunomodulatory Therapy in RA**
Yang, Z., Shen, Y., Matteson, E. L., Hosgur, E., Hong, J., Goronzy, J., Weyand, C. M.
WILEY.2016
 - **PD-1-Expressing T Cells in GCA Fail to Promote Immune Tolerance Functions**

- Watanabe, R., Zhang, H., Hosgur, E., Berry, G., Goronzy, J., Weyand, C. M.
WILEY.2016
- **Age-Related Defects in the Immune System of Patients with GCA**
Wen, Z., Shimojima, Y., Berry, G., Hosgur, E., Liao, J., Forbess, L., Weisman, M., Goronzy, J., Weyand, C. M.
WILEY.2016
 - **Pro-inflammatory and anti-inflammatory T cells in giant cell arteritis.** *Joint, bone, spine : revue du rhumatisme*
Watanabe, R., Hosgur, E., Zhang, H., Wen, Z., Berry, G., Goronzy, J. J., Weyand, C. M.
2016
 - **The life cycle of a T cell after vaccination - where does immune ageing strike?** *Clinical and experimental immunology*
Kim, C., Fang, F., Weyand, C. M., Goronzy, J. J.
2016
 - **Giant Cell Arteritis: From Pathogenesis to Therapeutic Management.** *Current treatment options in rheumatology*
Watanabe, R., Goronzy, J. J., Berry, G., Liao, Y. J., Weyand, C. M.
2016; 2 (2): 126-137
 - **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
 - **Regulation of metabolic pathways in CD4 T memory cell responses of older individuals**
Yanes, R. E., Goronzy, J. J.
AMER ASSOC IMMUNOLOGISTS.2016
 - **Systems analysis of microRNAs reveals a novel link between CD8 T cell dysfunction and TGF-beta signaling in immune aging**
Gustafson, C., Cavanagh, M., Hui, B., Zhang, D., Weyand, C. M., Goronzy, J. J.
AMER ASSOC IMMUNOLOGISTS.2016
 - **Diversification of the antigen-specific T cell receptor repertoire after varicella zoster vaccination.** *Science translational medicine*
Qi, Q., Cavanagh, M. M., Le Saux, S., Namkoong, H., Kim, C., Turgano, E., Liu, Y., Wang, C., Mackey, S., Swan, G. E., Dekker, C. L., Olshen, R. A., Boyd, et al
2016; 8 (332): 332ra46-?
 - **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
 - **Expression of CD39 on Activated T Cells Impairs their Survival in Older Individuals.** *Cell reports*
Fang, F., Yu, M., Cavanagh, M. M., Hutter Saunders, J., Qi, Q., Ye, Z., Le Saux, S., Sultan, W., Turgano, E., Dekker, C. L., Tian, L., Weyand, C. M., Goronzy, et al
2016; 14 (5): 1218-1231
 - **Immune activation caused by vascular oxidation promotes fibrosis and hypertension** *JOURNAL OF CLINICAL INVESTIGATION*
Wu, J., Saleh, M. A., Kirabo, A., Itani, H. A., Montaniel, K. R., Xiao, L., Chen, W., Mernaugh, R. L., Cai, H., Bernstein, K. E., Goronzy, J. J., Weyand, C. M., Curci, et al
2016; 126 (1): 50-67
 - **High-throughput sequencing insights into T-cell receptor repertoire diversity in aging** *GENOME MEDICINE*
Goronzy, J. J., Qi, Q., Olshen, R. A., Weyand, C. M.
2015; 7: 117
 - **Telomere Damage in Rheumatoid Arthritis**
Li, Y., Ju, J., Bush, T. M., Genovese, M. C., Goronzy, J., Weyand, C. M.
WILEY-BLACKWELL.2015

- **Failure in Nutrient Sensing Supports mTOR Hyperactivity and Proinflammatory Functions in T Cells from Patients with Rheumatoid Arthritis**
Yang, Z., Matteson, E. L., Hong, J., Goronzy, J., Weyand, C. M.
WILEY-BLACKWELL.2015
- **Enhanced Oxidant Signaling in Inflammatory Macrophages in Rheumatoid Arthritis (RA) and in Coronary Artery Disease (CAD)**
Shirai, T., Schaeffgen, B., Wallis, B., Matteson, E. L., Assimes, T. L., Harrison, D. G., Goronzy, J., Weyand, C. M.
WILEY-BLACKWELL.2015
- **Endothelial Cells Regulate Proinflammatory T Cell Responses in Large Vessel Vasculitis Via NOTCH-NOTCH Ligand Interactions**
Wen, Z., Zhang, H., Liao, J., Berry, G., Forbess, L. J., Weissman, M., Goronzy, J., Weyand, C. M.
WILEY-BLACKWELL.2015
- **Second Temporal Artery Biopsies in Patients with Temporal Arteritis (TA)**
Fritzlen, J., Younge, B., Weyand, C. M., Hunder, G. G., Goronzy, J., Warrington, K. J., Maleszewski, J.
WILEY-BLACKWELL.2015
- **Age-Associated Failure To Adjust Type I IFN Receptor Signaling Thresholds after T Cell Activation** *JOURNAL OF IMMUNOLOGY*
Li, G., Ju, J., Weyand, C. M., Goronzy, J. J.
2015; 195 (3): 865-874
- **Large-Scale and Comprehensive Immune Profiling and Functional Analysis of Normal Human Aging** *PLOS ONE*
Whiting, C. C., Siebert, J., Newman, A. M., Du, H., Alizadeh, A. A., Goronzy, J., Weyand, C. M., Krishnan, E., Fathman, C. G., Maecker, H. T.
2015; 10 (7)
- **Autophagy in autoimmune disease** *JOURNAL OF MOLECULAR MEDICINE-JMM*
Yang, Z., Goronzy, J. J., Weyand, C. M.
2015; 93 (7): 707-717
- **Naive T Cell Maintenance and Function in Human Aging** *JOURNAL OF IMMUNOLOGY*
Goronzy, J. J., Fang, F., Cavanagh, M. M., Qi, Q., Weyand, C. M.
2015; 194 (9): 4073-4080
- **Macrophages in vascular inflammation - From atherosclerosis to vasculitis** *AUTOIMMUNITY*
Shirai, T., Hilhorst, M., Harrison, D. G., Goronzy, J. J., Weyand, C. M.
2015; 48 (3): 139-151
- **T-cell metabolism in autoimmune disease** *ARTHRITIS RESEARCH & THERAPY*
Yang, Z., Matteson, E. L., Goronzy, J. J., Weyand, C. M.
2015; 17
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