



Cornelia Weyand

Professor of Medicine (Immunology and Rheumatology)

Medicine - Immunology & Rheumatology

CLINICAL OFFICES

- **Immunology and Rheumatology Clinic**

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Bio

CLINICAL FOCUS

- Vasculitis
- Rheumatoid Arthritis
- Rheumatology

ACADEMIC APPOINTMENTS

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

ADMINISTRATIVE APPOINTMENTS

- Chief, Division of Immunology and Rheumatology, Stanford University School of Medicine, (2013- present)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Rheumatology Fellowship (1986) CA
- Professional Education: University of Heidelberg (1988) Germany
- Residency: Hannover Medical School (1984)
- Fellowship: Heidelberg University German Cancer Research Center (1981)
- Professional Education: University of Bonn (1980)
- Medical Education: University of Aachen (1979)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Telomere biology and genomic stress in autoimmunity and inflammation

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Ke Jin, Ki Eun Pyo, Yanan Wang, Bowen Wu, Tuantuan Zhao

Postdoctoral Research Mentor

Ke Jin, Ki Eun Pyo, Yanan Wang, Bowen Wu, Tuantuan Zhao

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **Geographical variations in ocular and extra-ocular manifestations in Behcet's disease.** *European journal of rheumatology*
Shahram, F., Mahlen, M. T., Akhlaghi, M., Davatchi, F., Liao, Y. J., Weyand, C. M.
2019: 1–8
- **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
- **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 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–+
- **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.
OXFORD UNIV PRESS.2019: 66
- **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
- **Hypertension and increased endothelial mechanical stretch promote monocyte differentiation and activation: roles of STAT3, interleukin 6 and hydrogen peroxide** *CARDIOVASCULAR RESEARCH*
Loperena, R., Van Beusecum, J. P., Itani, H. A., Engel, N., Laroumanie, F., Xiao, L., Eljovich, F., Laffer, C. L., Gnecco, J. S., Noonan, J., Maffia, P., Jasiewicz-Honkisz, B., Czesnikiewicz-Guzik, et al
2018; 114 (11): 1547–63
- **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
 - **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
 - **Refractory Giant Cell Arteritis Complicated by Vision Loss From Optic Atrophy and Maculopathy Associated With Pachymeningitis** *JOURNAL OF NEURO-OPHTHALMOLOGY*
Uribe, J. A., Aggarwal, I., Witthayaweerasak, J., Liao, Y., Berry, G. J., Sab, U. K., Weyand, C. M.
2018; 38 (1): 17–23
 - **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
 - **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
 - **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
 - **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
 - **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
- **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
- **Immunometabolism in early and late stages of rheumatoid arthritis.** *Nature reviews. Rheumatology*
Weyand, C. M., Goronzy, J. J.
2017; 13 (5): 291-301
- **PKC-epsilon and TLR4 synergistically regulate resistin-mediated inflammation in human macrophages** *ATHEROSCLEROSIS*
Zuniga, M. C., Raghuraman, G., Hitchner, E., Weyand, C., Robinson, W., Zhou, W.
2017; 259: 51–59
- **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., Fritzlen, 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
- **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
- **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
- **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
- **Editorial: Vascular inflammation in Systemic Autoimmunity** *FRONTIERS IN IMMUNOLOGY*
Ramirez, G. A., Weyand, C., Vaglio, A., Manfredi, A. A.
2016; 7: 471
- **Adaptive Immunity Dysregulation in Acute Coronary Syndromes From Cellular and Molecular Basis to Clinical Implications** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Flego, D., Liuzzo, G., Weyand, C. M., Crea, F.
2016; 68 (19): 2107-2117
- **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, et al
2016; 12 (10)
- **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
- **Activation of Human T Cells in Hypertension Studies of Humanized Mice and Hypertensive Humans** *HYPERTENSION*
Itani, H. A., McMaster, W. G., Saleh, M. A., Nazarewicz, R. R., Mikolajczyk, T. P., Kaszuba, A. M., Konior, A., Prejbisz, A., Januszewicz, A., Norlander, A. E., Chen, W., Bonami, R. H., Marshall, et al
2016; 68 (1): 123-?

- **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
- **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
- **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 (4): 1607-?
- **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., Saunders, J. H., 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
- **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
- **Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition)** *AUTOPHAGY*
Klionsky, D. J., Abdelmohsen, K., Abe, A., Abedin, M. J., Abeliovich, H., Arozena, A. A., Adachi, H., Adams, C. M., Adams, P. D., Adeli, K., Adhietty, P. J., Adler, S. G., Agam, et al
2016; 12 (1): 1-222
- **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
- **Accelerated atherosclerosis in patients with chronic inflammatory rheumatologic conditions.** *International journal of clinical rheumatology*
Hong, J., Maron, D. J., Shirai, T., Weyand, C. M.
2015; 10 (5): 365-381

- **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
- **Cardiorheumatology: cardiac involvement in systemic rheumatic disease** *NATURE REVIEWS CARDIOLOGY*
Prasad, M., Hermann, J., Gabriel, S. E., Weyand, C. M., Mulvagh, S., Mankad, R., Oh, J. K., Matteson, E. L., Lerman, A.
2015; 12 (3): 168-176
- **T-cell metabolism in autoimmune disease** *ARTHRITIS RESEARCH & THERAPY*
Yang, Z., Matteson, E. L., Goronzy, J. J., Weyand, C. M.
2015; 17
- **Serpin Treatment Suppresses Inflammatory Vascular Lesions in Temporal Artery Implants (TAI) from Patients with Giant Cell Arteritis** *PLOS ONE*
Chen, H., Zheng, D., Ambadapadi, S., Davids, J., Ryden, S., Samy, H., Bartee, M., Sobel, E., Dai, E., Liu, L., Macaulay, C., Yachnis, A., Weyand, et al
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- **Visual Manifestations in Giant Cell Arteritis: Trend over 5 Decades in a Population-based Cohort.** *journal of rheumatology*
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