



Katja Gabriele Weinacht, MD, PhD

Assistant Professor of Pediatrics (Stem Cell Transplantation and Regenerative Medicine)

Pediatrics - Stem Cell Transplantation

CLINICAL OFFICE (PRIMARY)

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ACADEMIC CONTACT INFORMATION

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Bio

CLINICAL FOCUS

- Pediatric Hematology-Oncology
- Pediatric Stem Cell Transplantation, Genetic Immune Defects

ACADEMIC APPOINTMENTS

- Assistant Professor, Pediatrics - Stem Cell Transplantation
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Attending Physician, Pediatric SCTR Stanford School of Medicine, (2016- present)
- Assistant Professor, Pediatrics Stanford School of Medicine, (2012-2016)

HONORS AND AWARDS

- Uytensu-Hamilton Faculty Scholar Award, Stanford Maternal & Child Health Research Institute (2019-Endowed)
- California Institute of Regenerative Medicine Discovery 2 Award, CIRM (2019-2020)
- Baxter Faculty Scholar, Stanford Medicine (2017-2018)
- Mentored Clinical Scientist Research Career Development Award (K08), NIAID (2016-21)
- Research Fellowship Award, Charles King Trust (2013-15)
- Amy-Potter Research Fellowship Award, Boston Children's Hospital, Harvard Medical School (2013-14)
- Research Fellowship Award, Primary Immunodeficiency Treatment Consortium (2013-14)
- Amy-Potter Research Fellowship Award, Boston Children's Hospital, Harvard Medical School (2012-13)
- Dan Heller Teaching Award, Harvard Medical School (2009)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, 22q11.2 Society (2017 - present)

- Member, International Society of Stem Cell Research (ISSCR) (2014 - present)
- Member, Primary Immunodeficiency Treatment Consortium (PIDTC) (2012 - present)
- Member, American Society of Pediatric Hematology/Oncology (ASPHO) (2009 - present)
- Member, Children's Oncology Group (COG) (2009 - present)
- Associate Member, American Society of Hematology (ASH) (2009 - present)

PROFESSIONAL EDUCATION

- Board Certification: Pediatrics, American Board of Pediatrics (2021)
- Board Certification: Pediatric Hematology-Oncology, American Board of Pediatrics (2020)
- Fellowship: Boston Childrens Hospital Pediatric Hematology and Oncology Fellowship (2012) MA
- Residency: Mass General Hospital for Children Pediatric Residency (2009) MA
- Board Certification, American Board of Pediatric Hematology-Oncology , 2013
- Board Certification, American Board of Pediatrics , 2009
- Research Fellowship, Pediatric Immunology, Laboratory Dr. Luigi D. Notarangelo, Boston Children's Hospital, Harvard Medical School, Boston, MA , 2010-2012
- Clinical Fellowship, Pediatric Hematology/Oncology, Boston Children's Hospital, Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA , 2009-2012
- Residency, Pediatrics, Massachusetts General Hospital, Harvard Medical School, Boston, MA , 2006-2009
- Postdoctoral Fellow, Channing Laboratory, Brigham and Women's Hospital, Harvard Medical School, Boston, MA , 2005-2006
- PhD (Medicine), Technische Universitaet Muenchen, School of Medicine, Munich, Germany , 2004
- MD, Technische Universitaet Muenchen, School of Medicine, Munich, Germany , 2002

PATENTS

- Comstock LE, Coyne MJ, Weinacht KG, Kasper DL, Tzianabos AO. "United States Patent 10/388,390 Method of Overexpression of Zwitterionic Polysaccharides", Brigham and Women's Hospital, Mar 13, 2003

LINKS

- Weinacht lab web site: <https://med.stanford.edu/weinachtlaboratory.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I am a pediatric hematologist-oncologist with special interest in the niche of diseases that intersect immune dysfunction, primary immunodeficiency and bone marrow failure. My clinical practice focuses on pediatric patients requiring a hematopoietic stem cell transplantation, patients with DiGeorge Syndrome and patients with genetic immune diseases presenting with autoimmunity. As a physician-scientist, I strive to advance our insights into the mechanisms leading to immunodeficiency, autoimmunity and tolerance on a molecular level and to translate our research into novel targeted therapies patients.

My work is a natural extension of my clinical training in pediatric hematology-oncology combined with my scientific background in immunology and microbiology. After completing my clinical training at Boston Children's Hospital/Dana-Farber Cancer Institute, I joined the laboratory of Luigi D. Notarangelo in the division of immunology, Boston Children's Hospital/Harvard Stem Cell Institute, where I have acquired skills in the field of reprogramming, tissue engineering and gene correction. In my laboratory, we now use iPSC-based disease models to study how defects in mitochondrial metabolism and oxidative stress affect hematopoietic stem and progenitor cell development and cell death with the goal of identifying therapeutic targets. A separate focus of my laboratory is devoted to understanding the thymic developmental defects in DiGeorge syndrome.

CLINICAL TRIALS

- Natural History Study of SCID Disorders, Recruiting

- Patients Treated for Chronic Granulomatous Disease (CGD) Since 1995, Recruiting
- Patients Treated for SCID (1968-Present), Recruiting
- Patients Treated for Wiskott-Aldrich Syndrome (WAS) Since 1990, Not Recruiting

Teaching

COURSES

2023-24

- Translational Immunology: IMMUNOL 209 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Preksha Bhagchandani

Postdoctoral Faculty Sponsor

Zihao Zheng

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)
- Immunology/Rheumatology (Fellowship Program)
- Medicine (Masters Program)
- Microbiology and Immunology (Phd Program)
- Molecular and Cellular Physiology (Phd Program)
- Pediatric Hem/Onc (Fellowship Program)
- Stem Cell Biology and Regenerative Medicine (Phd Program)

Publications

PUBLICATIONS

- **The rise of haplo: a quest for the perfect graft.** *Blood*
Weinacht, K. G.
2024; 143 (3): 193-195
- **Accelerating Immune Reconstitution in HSCT Patients through iPSC-Derived Thymic Epithelial Cells**
Mohammed, A., Hanh Dan Nguyen, Hubka, K., Wang, W., Slepicka, P., Solomon, B., Arreola, M., Zheng, Z., Gentles, A., Weinacht, K. G.
AMER SOC HEMATOLOGY.2023
- **Loss of Metabolic Control Beyond the Promyelocyte Stage Resolves Myeloid Maturation Arrest in Reticular Dysgenesis**
Wang, W., Arreola, M., Mathews, T., Devilbiss, A., Zhao, Z., Morrison, S., Weinacht, K. G.
AMER SOC HEMATOLOGY.2023
- **Precision Delivery of Steroids as a Rescue Therapy for Gastrointestinal Graft-versus-Host Disease in Pediatric Stem Cell Transplant Recipients.** *Journal of clinical medicine*
Levitte, S., Ganguly, A., Frolik, S., Guevara-Tique, A. A., Patel, S., Tadas, A., Klein, O., Shyr, D., Agarwal-Hashmi, R., Beach, L., Callard, E., Weinacht, K., Bertaina, et al
2023; 12 (13)
- **Case report: Refractory Evans syndrome in two patients with spondyloenchondrodysplasia with immune dysregulation treated successfully with JAK1/JAK2 inhibition.** *Frontiers in immunology*
Gernez, Y., Narula, M., Cepika, A., Valdes Camacho, J., Hoyte, E. G., Mouradian, K., Glader, B., Singh, D., Sathi, B., Rao, L., Tolin, A. L., Weinberg, K. I., Lewis, et al

2023; 14: 1328005

- **Precision Delivery of Steroids as a Rescue Therapy for Gastrointestinal Graft-versus-Host Disease in Pediatric Stem Cell Transplant Recipients** *Journal of Clinical Medicine*
Levitte, s., Ganguly, A., Frolik, S., Guevara-Tique, A., et al
2023; 12 (4229)
- **Human JAK1 gain of function causes dysregulated myelopoiesis and severe allergic inflammation.** *JCI insight*
Biggs, C. M., Cordeiro-Santanach, A., Prykhozhij, S. V., Deveau, A. P., Lin, Y., Del Bel, K. L., Orben, F., Ragotte, R. J., Saferali, A., Mostafavi, S., Dinh, L., Dai, D., Weinacht, et al
2022; 7 (24)
- **Functional Human iPSC-Derived Thymic Epithelial Progenitor Cells Reconstitute T Cell Development and Function in an In Vivo Model of Thymic Aplasia**
Slepicka, P., Hubka, K. M., Hanh Dan Nguyen, Mohammed, A., Wang, J., Gifford, C., Sebastiano, V., Weinacht, K. G.
AMER SOC HEMATOLOGY.2022: 7340-7341
- **Epigenetic and Immunological Indicators of IPEX Disease in subjects with FOXP3 gene mutation.** *The Journal of allergy and clinical immunology*
Narula, M., Lakshmanan, U., Borna, S., Schulze, J. J., Holmes, T. H., Harre, N., Kirkey, M., Ramachandran, A., Tagi, V. M., Barzaghi, F., Grunebaum, E., Upton, J. E., Hong-Diep Kim, et al
2022
- **A case of Spondyloenchondrodysplasia with immune dysregulation presenting as Systemic Lupus Erythematosus**
Camacho, J., Singh, D., Bacchetta, R., Weinberg, K., Cepika, A., Narula, M., Lewis, D. B., Gernez, Y., Weinacht, K.
SPRINGER/PLENUM PUBLISHERS.2021: S18-S19
- **A challenging case of recurrent idiopathic hemophagocytic lymphohistiocytosis (HLH) initially presenting in an infant with Pneumocystis jirovecii pneumonia**
Solomon, B., Balagtas, J., Chien, M., Pooni, R., Balboni, I., Weinacht, K., Gernez, Y.
SPRINGER/PLENUM PUBLISHERS.2021: S55
- **Correction: Chronic Granulomatous Disease-Associated IBD Resolves and Does Not Adversely Impact Survival Following Allogeneic HCT.** *Journal of clinical immunology*
Marsh, R. A., Leiding, J. W., Logan, B. R., Griffith, L. M., Arnold, D. E., Haddad, E., Falcone, E. L., Yin, Z., Patel, K., Arbuckle, E., Bleesing, J. J., Sullivan, K. E., Heimall, et al
2020
- **Insight into the Pediatric and Adult Dichotomy of COVID-19: Age-Related Differences in the Immune Response to SARS-CoV-2 infection.** *Pediatric pulmonology*
Fialkowski, A., Gernez, Y., Arya, P., Weinacht, K. G., Bernard Kinane, T., Yonker, L. M.
2020
- **Artificial thymic organoids represent a reliable tool to study T-cell differentiation in patients with severe T-cell lymphopenia.** *Blood advances*
Bosticardo, M., Pala, F., Calzoni, E., Delmonte, O. M., Dobbs, K., Gardner, C. L., Sacchetti, N., Kawai, T., Garabedian, E. K., Draper, D., Bergerson, J. R., DeRavin, S. S., Freeman, et al
2020; 4 (12): 2611-16
- **Excellent Outcomes Following Hematopoietic Cell Transplantation for Wiskott-Aldrich Syndrome: A PIDTC Report.** *Blood*
Burroughs, L., Petrovic, A., Brazauskas, R., Liu, X., Griffith, L. M., Ochs, H. D., Bleesing, J., Edwards, S., Dvorak, C. C., Chaudhury, S., Prockop, S., Quinones, R., Goldman, et al
2020
- **Autosomal Dominant JAK1 Gain-Of-Function Mutation Drives Myelopoiesis and Dysregulated T Helper Responses Leading To Severe Allergic Inflammation That Is Clinically Responsive To Ruxolitinib**
Biggs, C., Lin, E., Del Bel, K. L., Orben, F., Ragotte, R., Saferali, A., Mostafavi, S., Weinacht, K., de Bruin, L., Sharma, M., Shopsowitz, K., McKinnon, M. L., Vercauteren, et al
SPRINGER/PLENUM PUBLISHERS.2020: S120
- **A Case of G6PC3 Congenital Neutropenia, Misdiagnosed As Evans Syndrome**
Camacho, J., Brar, R., Chapman, C., Fernandez-Pol, S., Weinacht, K., Gernez, Y.
SPRINGER/PLENUM PUBLISHERS.2020: S131-S132

- **Hematopoietic Cell Transplantation in Patients With Primary Immune Regulatory Disorders (PIRD): A Primary Immune Deficiency Treatment Consortium (PIDTC) Survey.** *Frontiers in immunology*
Chan, A. Y., Leiding, J. W., Liu, X., Logan, B. R., Burroughs, L. M., Allenspach, E. J., Skoda-Smith, S., Uzel, G., Notarangelo, L. D., Slatter, M., Gennery, A. R., Smith, A. R., Pai, et al
2020; 11: 239
- **Adenylate Kinase 2 Links Energy Metabolism and Cell Fate in Hematopoietic Stem and Progenitor Cells**
Wang, W., Awani, A., Devilbiss, A., Mathews, T., Thomas, D., Dever, D. P., Porteus, M., Morrison, S., Weinacht, K. G.
AMER SOC HEMATOLOGY.2019
- **Chronic Granulomatous Disease-Associated IBD Resolves and Does Not Adversely Impact Survival Following Allogeneic HCT.** *Journal of clinical immunology*
Marsh, R. A., Leiding, J. W., Logan, B. R., Griffith, L. M., Arnold, D. E., Haddad, E., Falcone, E. L., Yin, Z., Patel, K., Arbuckle, E., Blessing, J. J., Sullivan, K. E., Heimall, et al
2019
- **Severe autoinflammation in four patients with C-terminal variants in CDC42 successfully treated with IL-1beta inhibition.** *The Journal of allergy and clinical immunology*
Gernez, Y., de Jesus, A. A., Alsaleem, H., Macaubas, C., Roy, A., Lovell, D., Jagadeesh, K. A., Alehashemi, S., Erdman, L., Grimley, M., Talarico, S., Bacchetta, R., Lewis, et al
2019
- **Combined liver and hematopoietic stem cell transplantation in patients with X-linked hyper-IgM syndrome** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Bucciol, G., Nicholas, S. K., Calvo, P., Cant, A., Edgar, J. M., Espanol, T., Ferrua, F., Galicchio, M., Gennery, A. R., Hadzic, N., Hanson, I., Kusminsky, G., Lange, et al
2019; 143 (5): 1952-+
- **Calm in the midst of cytokine storm: a collaborative approach to the diagnosis and treatment of hemophagocytic lymphohistiocytosis and macrophage activation syndrome.** *Pediatric rheumatology online journal*
Halyabar, O., Chang, M. H., Schoettler, M. L., Schwartz, M. A., Baris, E. H., Benson, L. A., Biggs, C. M., Gorman, M., Lehmann, L., Lo, M. S., Nigrovic, P. A., Platt, C. D., Priebe, et al
2019; 17 (1): 7
- **Epigenetic Immune Cell Quantification for Diagnosis and Monitoring of Patients with Primary Immune Deficiencies and Immune Regulatory Disorders**
Schulze, J., Werner, J., Schildknecht, K., Lakshmanan, U., Gruetzkau, A., Chu, J., Gernez, Y., Speckmann, C., Weinacht, K. G., Bertaina, A., Baron, U., Borte, S., Olek, et al
SPRINGER/PLENUM PUBLISHERS.2019: S30
- **Novel CDC42 Mutation Causes Severe Autoinflammatory Syndrome Responsive to IL-1 Inhibition**
Gernez, Y., Kirby, M., Balagas, J. M., Macaubas, C. I., Canna, S., Lewis, D. B., Mellins, E., Bacchetta, R., Weinacht, K. G.
SPRINGER/PLENUM PUBLISHERS.2019: S69
- **Artificial Thymic Organoids Represent a Reliable and Quick Tool to Study T Cell Differentiation in Human Bone Marrow Samples from Patients with Severe T Cell Immunodeficiency**
Bosticardo, M., Pala, F., Calzoni, E., Gardner, C., Dobbs, K., De Ravin, S., Hartog, N., Markert, M., Weinacht, K. G., Malech, H. L., Seet, C., Montel-Hagen, A., Crooks, et al
SPRINGER/PLENUM PUBLISHERS.2019: S51–S52
- **Combined liver and hematopoietic stem cell transplantation in X-linked hyper IgM syndrome.** *The Journal of allergy and clinical immunology*
Bucciol, G., Nicholas, S. K., Calvo, P. L., Cant, A., Edgar, J. D., Espanol, T., Ferrua, F., Galicchio, M., Gennery, A. R., Hadzic, N., Hanson, I. C., Kusminsky, G., Lange, et al
2019
- **Engineering Regenerative Thymic Tissues to Restore Long-Term T Cell Lymphopoiesis**
Gai, H., Gras-Pena, R., Verma, Y., Fateh, V., Ikeda, K., Dejene, B., Min, D., Wang, J., Swigut, T., Weinberg, K. I., Hollander, G. A., Heilshorn, S., Roncarolo, et al
AMER SOC HEMATOLOGY.2018
- **An Engineered Cell-Traceable Model of Reticular Dysgenesis in Human Hematopoietic Stem Cells Linking Metabolism and Differentiation**
Wang, W., Awani, A., Reich, L., Nakauchi, Y., Thomas, D., Dever, D. P., Porteus, M., Weinacht, K. G.
AMER SOC HEMATOLOGY.2018

- **Jakinibs for the treatment of immune dysregulation in patients with gain-of-function signal transducer and activator of transcription 1 (STAT1) or STAT3 mutations.** *The Journal of allergy and clinical immunology*
Forbes, L. R., Vogel, T. P., Cooper, M. A., Castro-Wagner, J., Schussler, E., Weinacht, K. G., Plant, A. S., Su, H. C., Allenspach, E. J., Slatter, M., Abinun, M., Lilic, D., Cunningham-Rundles, et al
2018
- **Recent outcome of hematopoietic cell transplantation for Wiskott-Aldrich syndrome is excellent in all donor types: A Primary Immune Deficiency Treatment Consortium (PIDTC) Study**
Pai, S., Brazauskas, R., Bleesing, J., Dvorak, C. C., Kletzel, M., Petrovic, A., Prockop, S. E., Quinones, R., Goldman, F. D., Quigg, T. C., Hanson, I. C., Stenger, E., Thakar, et al
SPRINGER/PLENUM PUBLISHERS.2018: 399–400
- **Resolution of CGD Related Colitis after Allogeneic Hematopoietic Stem Cell Transplantation in Patients with Chronic Granulomatous Disease-Early Results From the 6903 Study of the Primary Immune Deficiency Treatment Consortium (PIDTC)**
Leiding, J. W., Logan, B. R., Yin, Z., Arbuckle, E., Bleesing, J. J., Sullivan, K. E., Heimall, J., Burroughs, L., Skoda-Smith, S., Chandrakasan, S., Yu, L. C., Oshrine, B. R., Cuvelier, et al
ELSEVIER SCIENCE INC.2018: S53–S54
- **Human Ipsc-Derived Thymic Epithelial Progenitor Cells as Stem Cell-Based Therapy to Restore Thymic Function in Hematopoietic Stem Cell Transplant Recipients**
Gai, H., Sebastiano, V., Weinacht, K. G.
ELSEVIER SCIENCE INC.2018: S364
- **Ruxolitinib reverses Dysregulated T Helper Cell Responses and controls Autoimmunity caused by a Novel STAT1 Gain of Function Mutation** *Journal of Allergy and Clinical Immunology*
Weinacht, K. G., Charbonnier, L. M., Alroqi, F., Plant, A., Qiao, Q., Wu, H., Ma, C., Torgerson, T. R., Rosenweig, S. D., Flesier, T. A., Notarangelo, L. D., Hanson, I. C., Forbes, et al
2017
- **Reticular dysgenesis-associated AK2 protects hematopoietic stem and progenitor cell development from oxidative stress** *JOURNAL OF EXPERIMENTAL MEDICINE*
Rissone, A., Weinacht, K. G., La Marca, G., Bishop, K., Giocaliere, E., Jagadeesh, J., Felgentreff, K., Dobbs, K., Al-Herz, W., Jones, M., Chandrasekharappa, S., Kirby, M., Wincovitch, et al
2015; 212 (8): 1185-1202
- **Diagnosis of immunodeficiency caused by a purine nucleoside phosphorylase defect by using tandem mass spectrometry on dried blood spots** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
La Marca, G., Canessa, C., Giocaliere, E., Romano, F., Malvagia, S., Funghini, S., Moriondo, M., Valleriani, C., Lippi, F., Ombrone, D., Della Bona, M. L., Speckmann, C., Borte, et al
2014; 134 (1): 155-?
- **Differential role of nonhomologous end joining factors in the generation, DNA damage response, and myeloid differentiation of human induced pluripotent stem cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Felgentreff, K., Du, L., Weinacht, K. G., Dobbs, K., Bartish, M., Giliani, S., Schlaeger, T., DeVine, A., Schambach, A., Woodbine, L. J., Davies, G., Baxi, S. N., van der Burg, et al
2014; 111 (24): 8889-8894
- **Primary Immune Deficiency Treatment Consortium (PIDTC) report.** *journal of allergy and clinical immunology*
Griffith, L. M., Cowan, M. J., Notarangelo, L. D., Kohn, D. B., Puck, J. M., Pai, S., Ballard, B., Bauer, S. C., Bleesing, J. J., Boyle, M., Brower, A., Buckley, R. H., van der Burg, et al
2014; 133 (2): 335-347 e11
- **Whole-exome sequencing identifies tetratricopeptide repeat domain 7A (TTC7A) mutations for combined immunodeficiency with intestinal atresias** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Chen, R., Giliani, S., Lanzi, G., Mias, G. I., Lonardi, S., Dobbs, K., Manis, J., Im, H., Gallagher, J. E., Phanstiel, D. H., Euskirchen, G., Lacroute, P., Bettinger, et al
2013; 132 (3): 656-?
- **Whole-exome sequencing identifies tetratricopeptide repeat domain 7A (TTC7A) mutations for combined immunodeficiency with intestinal atresias.** *journal of allergy and clinical immunology*
Chen, R., Giliani, S., Lanzi, G., Mias, G. I., Lonardi, S., Dobbs, K., Manis, J., Im, H., Gallagher, J. E., Phanstiel, D. H., Euskirchen, G., Lacroute, P., Bettinger, et al
2013; 132 (3): 656-664 e17

- **First reported case of Omenn syndrome in a patient with reticular dysgenesis** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Henderson, L. A., Frugoni, F., Hopkins, G., Al-Herz, W., Weinacht, K., Comeau, A. M., Bonilla, F. A., Notarangelo, L. D., Pai, S.
2013; 131 (4): 1227-1230
- **The role of induced pluripotent stem cells in research and therapy of primary immunodeficiencies.** *Current opinion in immunology*
Weinacht, K. G., Brauer, P. M., Felgentreff, K., Devine, A., Gennery, A. R., Giliani, S., Al-Herz, W., Schambach, A., Zúñiga-Pflücker, J. C., Notarangelo, L. D.
2012; 24 (5): 617-624
- **Trans locus inhibitors limit concomitant polysaccharide synthesis in the human gut symbiont *Bacteroides fragilis*** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Chatzidakis-Livanis, M., Weinacht, K. G., Comstock, L. E.
2010; 107 (26): 11976-11980
- **Tyrosine site-specific recombinases mediate DNA inversions affecting the expression of outer surface proteins of *Bacteroides fragilis*** *MOLECULAR MICROBIOLOGY*
Weinacht, K. G., Roche, H., Krinos, C. M., Coyne, M. J., Parkhill, J., Comstock, L. E.
2004; 53 (5): 1319-1330
- **Mpi recombinase globally modulates the surface architecture of a human commensal bacterium** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Coyne, M. J., Weinacht, K. G., Krinos, C. M., Comstock, L. E.
2003; 100 (18): 10446-10451
- **Extensive surface diversity of a commensal microorganism by multiple DNA inversions** *NATURE*
Krinos, C. M., Coyne, M. J., Weinacht, K. G., Tzianabos, A. O., Kasper, D. L., Comstock, L. E.
2001; 414 (6863): 555-558
- **[Drug hypersensitivity]. *Terapevticheskii? arkhiv***
TAREEV, E. M., VINOGRADOVA, O. M., Semenkova, E. N., SOLOV'EVA, A. P.
1975; 47 (4): 5-12