

# Stanford

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## Harry B Greenberg

The Joseph D. Grant Professor in the School of Medicine and Professor of Microbiology and Immunology

Medicine - Gastroenterology & Hepatology

 NIH Biosketch available Online

 Curriculum Vitae available Online

### CONTACT INFORMATION

#### • Administrative Contact

Cheryl Weissbart - Adm Services Administrator

**Email** weissbart@stanford.edu

**Tel** 650 725 9722

### Bio

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### ACADEMIC APPOINTMENTS

- Professor, Medicine - Gastroenterology & Hepatology
- Professor, Microbiology & Immunology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

### ADMINISTRATIVE APPOINTMENTS

- Associate Dean for Research, Stanford University School of Medicine, (2017- present)
- Co-Director of Spectrum: the Stanford Center for Clinical and Translational Science (CTSA), Stanford University, (2008-2018)

### HONORS AND AWARDS

- President, American Society of Virology (2007-2008)
- Fellow, AAAS (2003)
- Member, AAP (1992)
- member, ASCI (1980)

### PROFESSIONAL EDUCATION

- BA, Dartmouth College , History (1966)
- MD, Columbia College of P&S , Medicine (1970)
- Board Certification, Bellevue Hospital , Internal Medicine (1973)
- Board Certification, Stanford Medical School , Gastroenterology (1977)

### LINKS

- Stanford Center for Clinical & Translation Education Research: <http://spectrum.stanford.edu>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Greenberg's current interests are in pathogenic viruses that infect the GI tract, liver and respiratory tract. His primary focus is on molecular mechanisms of pathogenesis, viral determinants of protective immunity, the molecular basis of host range, virulence and tissue tropism, vaccine development, viral immunology, and epidemiology with specific emphasis on the role of enteric viruses in less developed countries. Some of the ongoing studies in the lab deal with the following questions:

(i) What rotavirus gene(s) code for host range restriction, virulence and immunity? These studies involve the use of genetic analysis and studies of humoral and cellular immunity.

(ii) What proteins and what regions of the rotavirus proteins code for neutralizing epitopes, cell fusion activity, viral receptors, protective immunity? These studies involve sequence analysis, site-specific mutagenesis, and expression of viral genes.

(iii) What host cell genes are regulated by rotavirus replication in vitro and in vivo. These studies focus on microarray analysis and cell biology.

(iv) What are the immune effector mechanisms that mediate protection from and resolution of rotavirus infection? These studies involve animal models, cell transfer studies, FACS analysis and transgenic mice.

(v) What are the mechanisms by which class I restricted CD8 T cells modulate HCV infection. These studies involve analysis of peripheral and liver infiltrating human T cells using intracellular cytokine and tetramer techniques.

(vi) What are the determinants of immunity to influenza following live and inactivated virus vaccination?

### CLINICAL TRIALS

- B-cell Immunity to Influenza (SLVP017) - Years 2 (2010) & 3 (2011), Not Recruiting
- B-cell Immunity to Influenza (SLVP017)- Year 1, 2009, Not Recruiting
- B-cell Immunity to Influenza (SLVP017)- Year 5, 2013, Not Recruiting
- Innate and Acquired Immunity to Influenza Infection and Immunization (SLVP029), Not Recruiting
- Kinetics of B-Cell Responses to Live, Attenuated Influenza Vaccine (LAIV) in Young Children Two Years of Age, Not Recruiting
- Plasmablast Trafficking and Antibody Response in Influenza Vaccination (SLVP021 2011-2014), Not Recruiting
- Protective Mechanisms Against a Pandemic Respiratory Virus (SLVP024), Not Recruiting
- The Human Mucosal Immune Responses to Influenza Virus (SLVP026), Not Recruiting

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Faculty Sponsor

Takahiro Kawagishi, Liliana Sanchez Tacuba

#### Postdoctoral Research Mentor

Takahiro Kawagishi, Liliana Sanchez Tacuba

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)

- Infectious Diseases (Fellowship Program)
- Medicine (Masters Program)
- Microbiology and Immunology (Phd Program)

## Publications

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### PUBLICATIONS

- **A CD22-Shp1 phosphatase axis controls integrin beta7 display and B cell function in mucosal immunity.** *Nature immunology*  
Ballet, R., Brennan, M., Brandl, C., Feng, N., Berri, J., Cheng, J., Ocon, B., Alborzian Deh Sheikh, A., Marki, A., Bi, Y., Abram, C. L., Lowell, C. A., Tsubata, et al  
2021
- **An optimized reverse genetics system suitable for efficient recovery of simian, human and murine-like rotaviruses.** *Journal of virology*  
Sanchez-Tacuba, L., Feng, N., Meade, N. J., Mellits, K. H., Jais, P. H., Yasukawa, L. L., Resch, T. K., Jiang, B., Lopez, S., Ding, S., Greenberg, H. B.  
2020
- **TMPRSS2 and TMPRSS4 promote SARS-CoV-2 infection of human small intestinal enterocytes.** *Science immunology*  
Zang, R., Gomez Castro, M. F., McCune, B. T., Zeng, Q., Rothlauf, P. W., Sonnek, N. M., Liu, Z., Brulois, K. F., Wang, X., Greenberg, H. B., Diamond, M. S., Ciorba, M. A., Whelan, et al  
2020; 5 (47)
- **alpha5beta1 integrin-expression by BATF3-dependent dendritic cells facilitates early IgA responses to Rotavirus.** *Mucosal immunology*  
Nakawesi, J., This, S., Hutter, J., Boucard-Jourdin, M., Barateau, V., Muleta, K. G., Gooday, L. J., Thomsen, K. F., Lopez, A. G., Ulmert, I., Poncet, D., Malissen, B., Greenberg, et al  
2020
- **Reverse genetics reveals a role of the rotavirus VP3 phosphodiesterase activity in inhibiting RNase L signaling and contributing to intestinal viral replication in vivo.** *Journal of virology*  
Song, Y., Feng, N., Sanchez-Tacuba, L., Yasukawa, L. L., Ren, L., Silverman, R. H., Ding, S., Greenberg, H. B.  
2020
- **Rotavirus re-programs multiple IFN receptors and restricts their intestinal antiviral and inflammatory functions.** *Journal of virology*  
Sen, A. n., Namsa, N. D., Feng, N. n., Greenberg, H. B.  
2020
- **Retinoic Acid and Lymphotoxin Signaling Promote Differentiation of Human Intestinal M Cells.** *Gastroenterology*  
Ding, S. n., Song, Y. n., Brulois, K. F., Pan, J. n., Co, J. Y., Ren, L. n., Feng, N. n., Yasukawa, L. L., Sánchez-Tacuba, L. n., Wosen, J. E., Mellins, E. D., Monack, D. M., Amieva, et al  
2020
- **Our New President-M. Bishr Omary, MD, PhD, AGAF.** *Gastroenterology*  
Greenberg, H. B., Owyang, C. n., Williams, J. A., Landis, E. n., Rustgi, A. K.  
2020; 158 (6): 1811–21
- **The Role of Innate Immunity in Regulating Rotavirus Replication, Pathogenesis, and Host Range Restriction and the Implications for Live Rotaviral Vaccine Development** *MUCOSAL VACCINES*  
greenberg, h.  
Elsevier.2020; 2
- **The Role of Innate Immunity in Regulating Rotavirus Replication, Pathogenesis, and Host Range Restriction and the Implications for Live Rotaviral Vaccine Development** *MUCOSAL VACCINES: INNOVATION FOR PREVENTING INFECTIOUS DISEASES, 2ND EDITION*  
Sen, A., Ding, S., Greenberg, H. B., Kiyono, H., Pascual, D. W.  
2020: 683–97
- **Diminished B-Cell Response After Repeat Influenza Vaccination** *JOURNAL OF INFECTIOUS DISEASES*  
Sanyal, M., Holmes, T. H., Maecker, H. T., Albrecht, R. A., Dekker, C. L., He, X., Greenberg, H. B.  
2019; 219 (10): 1586–95
- **Profiling of rotavirus 3UTR-binding proteins reveals the ATP synthase subunit ATP5B as a host factor that supports late-stage virus replication** *JOURNAL OF BIOLOGICAL CHEMISTRY*

- Ren, L., Ding, S., Song, Y., Li, B., Ramanathan, M., Co, J., Amieva, M. R., Khavari, P. A., Greenberg, H. B.  
2019; 294 (15): 5993–6006
- **Influenza Virus Vaccination Elicits Poorly Adapted B Cell Responses in Elderly Individuals.** *Cell host & microbe*  
Henry, C., Zheng, N., Huang, M., Cabanov, A., Rojas, K. T., Kaur, K., Andrews, S. F., Palm, A. E., Chen, Y., Li, Y., Hoskova, K., Utset, H. A., Vieira, et al  
2019
  - **Human VP8\* mAbs neutralize rotavirus selectively in human intestinal epithelial cells.** *The Journal of clinical investigation*  
Feng, N., Hu, L., Ding, S., Sanyal, M., Zhao, B., Sankaran, B., Ramani, S., McNeal, M., Yasukawa, L. L., Song, Y., Prasad, B. V., Greenberg, H. B.  
2019; 130
  - **Enterovirus pathogenesis requires the host methyltransferase SETD3.** *Nature microbiology*  
Diep, J. n., Ooi, Y. S., Wilkinson, A. W., Peters, C. E., Foy, E. n., Johnson, J. R., Zengel, J. n., Ding, S. n., Weng, K. F., Laufman, O. n., Jang, G. n., Xu, J. n.,  
Young, et al  
2019
  - **Diminished B-cell response after repeat influenza vaccination.** *The Journal of infectious diseases*  
Sanyal, M., Holmes, T. H., Maecker, H., Albrecht, R. A., Dekker, C. L., He, X., Greenberg, H. B.  
2018
  - **Rotavirus VP3 targets MAVS for degradation to inhibit type III interferon expression in intestinal epithelial cells.** *eLife*  
Ding, S., Zhu, S., Ren, L., Feng, N., Song, Y., Ge, X., Li, B., Flavell, R. A., Greenberg, H. B.  
2018; 7
  - **New mitochondrial DNA synthesis enables NLRP3 inflammasome activation** *NATURE*  
Zhong, Z., Liang, S., Sanchez-Lopez, E., He, F., Shalapour, S., Lin, X., Wong, J., Ding, S., Seki, E., Schnabl, B., Hevener, A. L., Greenberg, H. B., Kisseleva, et al  
2018; 560 (7717): 198+
  - **Identification and Characterization at the Single-Cell Level of Cytokine-Producing Circulating Cells in Children With Dengue** *JOURNAL OF INFECTIOUS DISEASES*  
Perdomo-Celis, F., Romero, F., Salgado, D. M., Vega, R., Rodriguez, J., Angel, J., Franco, M. A., Greenberg, H. B., Narvaez, C. F.  
2018; 217 (9): 1472–80
  - **STAG2 deficiency induces interferon responses via cGAS-STING pathway and restricts virus infection.** *Nature communications*  
Ding, S., Diep, J., Feng, N., Ren, L., Li, B., Ooi, Y. S., Wang, X., Brulois, K. F., Yasukawa, L. L., Li, X., Kuo, C. J., Solomon, D. A., Carette, et al  
2018; 9 (1): 1485
  - **Editorial overview: Viral pathogenesis: New technologies to advance research in human viral pathogenesis** *CURRENT OPINION IN VIROLOGY*  
Greenberg, H. B., Griffin, D. E.  
2018; 29: IV-VI
  - **Rotavirus Degrades Multiple Interferon (IFN) Type Receptors To Inhibit IFN Signaling and Protects against Mortality from Endotoxin in Suckling Mice** *JOURNAL OF VIROLOGY*  
Sen, A., Sharma, A., Greenberg, H. B.  
2018; 92 (1)
  - **Rotavirus infection** *NATURE REVIEWS DISEASE PRIMERS*  
Crawford, S. E., Ramani, S., Tate, J. E., Parashar, U. D., Svensson, L., Hagbom, M., Franco, M. A., Greenberg, H. B., O’Ryan, M., Kang, G., Desselberger, U.,  
Estes, M. K.  
2017; 3: 17083
  - **Nlrp9b inflammasome restricts rotavirus infection in intestinal epithelial cells** *NATURE*  
Zhu, S., Ding, S., Wang, P., Wei, Z., Pan, W., Palm, N. W., Yang, Y., Yu, H., Li, H., Wang, G., Lei, X., de Zoete, M. R., Zhao, et al  
2017; 546 (7660): 667+
  - **VP4-and VP7-specific antibodies mediate heterotypic immunity to rotavirus in humans** *SCIENCE TRANSLATIONAL MEDICINE*  
Nair, N., Feng, N., Blum, L. K., Sanyal, M., Ding, S., Jiang, B., Sen, A., Morton, J. M., He, X., Robinson, W. H., Greenberg, H. B.  
2017; 9 (395)
  - **Drebrin restricts rotavirus entry by inhibiting dynamin-mediated endocytosis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

- Li, B., Ding, S., Feng, N., Mooney, N., Ooi, Y. S., Ren, L., Diep, J., Kelly, M. R., Yasukawa, L. L., Patton, J. T., Yamazaki, H., Shirao, T., Jackson, et al  
2017; 114 (18): E3642-E3651
- **Trafficking receptor signatures define blood plasmablasts responding to tissue-specific immune challenge.** *JCI insight*  
Seong, Y., Lazarus, N. H., Sutherland, L., Habtezion, A., Abramson, T., He, X., Greenberg, H. B., Butcher, E. C.  
2017; 2 (6)
  - **DDX6 Represses Aberrant Activation of Interferon-Stimulated Genes.** *Cell reports*  
Lumb, J. H., Li, Q. n., Popov, L. M., Ding, S. n., Keith, M. T., Merrill, B. D., Greenberg, H. B., Li, J. B., Carette, J. E.  
2017; 20 (4): 819–31
  - **Rotavirus degrades multiple type interferon receptors to inhibit IFN signaling and protects against mortality from endotoxin in suckling mice.** *Journal of virology*  
Sen, A. n., Sharma, A. n., Greenberg, H. B.  
2017
  - **Comparative Proteomics Reveals Strain-Specific  $\beta$ -TrCP Degradation via Rotavirus NSP1 Hijacking a Host Cullin-3-Rbx1 Complex.** *PLoS pathogens*  
Ding, S., Mooney, N., Li, B., Kelly, M. R., Feng, N., Loktev, A. V., Sen, A., Patton, J. T., Jackson, P. K., Greenberg, H. B.  
2016; 12 (10)
  - **Total and Envelope Protein-Specific Antibody-Secreting Cell Response in Pediatric Dengue Is Highly Modulated by Age and Subsequent Infections** *PLOS ONE*  
Toro, J. F., Salgado, D. M., Vega, R., Rodríguez, J. A., Rodríguez, L., Angel, J., Franco, M. A., Greenberg, H. B., Naravez, C. F.  
2016; 11 (8)
  - **Distinct Roles of Type I and Type III Interferons in Intestinal Immunity to Homologous and Heterologous Rotavirus Infections** *PLOS PATHOGENS*  
Lin, J., Feng, N., Sen, A., Balan, M., Tseng, H., McElrath, C., Smirnov, S. V., Peng, J., Yasukawa, L. L., Durbin, R. K., Durbin, J. E., Greenberg, H. B., Kotenko, et al  
2016; 12 (4)
  - **High-dimensional immune profiling of total and rotavirus VP6-specific intestinal and circulating B cells by mass cytometry** *MUCOSAL IMMUNOLOGY*  
Nair, N., Newell, E. W., Vollmers, C., Quake, S. R., Morton, J. M., DAVIS, M. M., He, X. S., Greenberg, H. B.  
2016; 9 (1): 68-82
  - **Total and Envelope Protein-Specific Antibody-Secreting Cell Response in Pediatric Dengue Is Highly Modulated by Age and Subsequent Infections.** *PLoS one*  
Toro, J. F., Salgado, D. M., Vega, R., Rodríguez, J. A., Rodríguez, L., Angel, J., Franco, M. A., Greenberg, H. B., Narváez, C. F.  
2016; 11 (8)
  - **Distinct patterns of B-cell activation and priming by natural influenza virus infection versus inactivated influenza vaccination.** *journal of infectious diseases*  
He, X., Holmes, T. H., Sanyal, M., Albrecht, R. A., García-Sastre, A., Dekker, C. L., Davis, M. M., Greenberg, H. B.  
2015; 211 (7): 1051-1059
  - **High-dimensional immune profiling of total and rotavirus VP6-specific intestinal and circulating B cells by mass cytometry.** *Mucosal immunology*  
Nair, N. n., Newell, E. W., Vollmers, C. n., Quake, S. R., Morton, J. M., Davis, M. M., He, X. S., Greenberg, H. B.  
2015
  - **Distinct Cross-reactive B-Cell Responses to Live Attenuated and Inactivated Influenza Vaccines.** *journal of infectious diseases*  
Sasaki, S., Holmes, T. H., Albrecht, R. A., García-Sastre, A., Dekker, C. L., He, X., Greenberg, H. B.  
2014; 210 (6): 865-874
  - **Efficacy of a monovalent human-bovine (116E) rotavirus vaccine in Indian children in the second year of life.** *Vaccine*  
Bhandari, N., Rongsen-Chandola, T., Bavdekar, A., John, J., Antony, K., Taneja, S., Goyal, N., Kawade, A., Kang, G., Rathore, S. S., Juvekar, S., Muliylil, J., Arya, et al  
2014; 32: A110-6
  - **Efficacy of a monovalent human-bovine (116E) rotavirus vaccine in Indian children in the second year of life.** *Vaccine*  
Bhandari, N., Rongsen-Chandola, T., Bavdekar, A., John, J., Antony, K., Taneja, S., Goyal, N., Kawade, A., Kang, G., Rathore, S. S., Juvekar, S., Muliylil, J., Arya, et al  
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- **Efficacy of a monovalent human-bovine (116E) rotavirus vaccine in Indian infants: a randomised, double-blind, placebo-controlled trial.** *Lancet*  
Bhandari, N., Rongsen-Chandola, T., Bavdekar, A., John, J., Antony, K., Taneja, S., Goyal, N., Kawade, A., Kang, G., Rathore, S. S., Juvekar, S., Muliylil, J., Arya, et al  
2014; 383 (9935): 2136-2143
- **Team science and the creation of a novel rotavirus vaccine in India: a new framework for vaccine development.** *Lancet*  
Bhan, M. K., Glass, R. I., Ella, K. M., Bhandari, N., Boslego, J., Greenberg, H. B., Mohan, K., Curlin, G., Rao, T. S.  
2014; 383 (9935): 2180-2183
- **Efficacy of a monovalent human-bovine (116E) rotavirus vaccine in Indian infants: a randomised, double-blind, placebo-controlled trial** *LANCET*  
Bhandari, N., Rongsen-Chandola, T., Bavdekar, A., John, J., Antony, K., Taneja, S., Goyal, N., Kawade, A., Kang, G., Rathore, S. S., Juvekar, S., Muliylil, J., Arya, et al  
2014; 383 (9935): 2136-2143
- **Rotavirus NSP1 Protein Inhibits Interferon-Mediated STAT1 Activation** *JOURNAL OF VIROLOGY*  
Sen, A., Rott, L., Nguyen Phan, N., Mukherjee, G., Greenberg, H. B.  
2014; 88 (1): 41-53
- **Permissive Replication of Homologous Murine Rotavirus in the Mouse Intestine Is Primarily Regulated by VP4 and NSP1** *JOURNAL OF VIROLOGY*  
Feng, N., Yasukawa, L. L., Sen, A., Greenberg, H. B.  
2013; 87 (15): 8307-8316
- **Combinatorial tetramer staining and mass cytometry analysis facilitate T-cell epitope mapping and characterization** *NATURE BIOTECHNOLOGY*  
Newell, E. W., Sigal, N., Nair, N., Kidd, B. A., Greenberg, H. B., Davis, M. M.  
2013; 31 (7): 623-U81
- **Plasmacytoid dendritic cells promote rotavirus-induced human and murine B cell responses.** *journal of clinical investigation*  
Deal, E. M., Lahl, K., Narváez, C. F., Butcher, E. C., Greenberg, H. B.  
2013; 123 (6): 2464-2474
- **Lineage structure of the human antibody repertoire in response to influenza vaccination.** *Science translational medicine*  
Jiang, N., He, J., Weinstein, J. A., Penland, L., Sasaki, S., He, X., Dekker, C. L., Zheng, N., Huang, M., Sullivan, M., Wilson, P. C., Greenberg, H. B., Davis, et al  
2013; 5 (171): 171ra19-?
- **Lineage Structure of the Human Antibody Repertoire in Response to Influenza Vaccination** *SCIENCE TRANSLATIONAL MEDICINE*  
Jiang, N., He, J., Weinstein, J. A., Penland, L., Sasaki, S., He, X., Dekker, C. L., Zheng, N., Huang, M., Sullivan, M., Wilson, P. C., Greenberg, H. B., Davis, et al  
2013; 5 (171)
- **Heterovariant Cross-Reactive B-Cell Responses Induced by the 2009 Pandemic Influenza Virus A Subtype H1N1 Vaccine** *JOURNAL OF INFECTIOUS DISEASES*  
He, X., Sasaki, S., Baer, J., Khurana, S., Golding, H., Treanor, J. J., Topham, D. J., Sangster, M. Y., Jin, H., Dekker, C. L., Subbarao, K., Greenberg, H. B.  
2013; 207 (2): 288-296
- **Characterization of Rotavirus RNAs That Activate Innate Immune Signaling through the RIG-I-Like Receptors.** *PloS one*  
Uzri, D., Greenberg, H. B.  
2013; 8 (7)
- **Rotavirus.** *Microbiology spectrum*  
Franco, M. A., Greenberg, H. B.  
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- **The Battle between Rotavirus and Its Host for Control of the Interferon Signaling Pathway** *PLOS PATHOGENS*  
Arnold, M. M., Sen, A., Greenberg, H. B., Patton, J. T.  
2013; 9 (1)
- **Innate immune response to homologous rotavirus infection in the small intestinal villous epithelium at single-cell resolution** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Sen, A., Rothenberg, M. E., Mukherjee, G., Feng, N., Kalisky, T., Nair, N., Johnstone, I. M., Clarke, M. F., Greenberg, H. B.  
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- **Cell-free production of trimeric influenza hemagglutinin head domain proteins as vaccine antigens** *BIOTECHNOLOGY AND BIOENGINEERING*  
Welsh, J. P., Lu, Y., He, X., Greenberg, H. B., Swartz, J. R.  
2012; 109 (12): 2962-2969
- **Plasmacytoid Dendritic Cells and Anti-Inflammatory Intestinal IgA Production** *Crohn's-and-Colitis-Foundation's-National-Clinical-and-Research Conference on Advances in Inflammatory Bowel Diseases*  
Lahl, K., Deal, E., Greenberg, H., Butcher, E.  
WILEY-BLACKWELL.2012: S108-S108
- **Human Rotavirus-Specific IgM Memory B Cells Have Differential Cloning Efficiencies and Switch Capacities and Play a Role in Antiviral Immunity In Vivo** *JOURNAL OF VIROLOGY*  
Narvaez, C. F., Feng, N., Vasquez, C., Sen, A., Angel, J., Greenberg, H. B., Franco, M. A.  
2012; 86 (19): 10829-10840
- **Rotavirus immune responses and correlates of protection** *CURRENT OPINION IN VIROLOGY*  
Angel, J., Franco, M. A., Greenberg, H. B.  
2012; 2 (4): 419-425
- **High Throughput Sequencing of the Human Antibody Repertoire in Response to Influenza Vaccination** *99th Annual Meeting of the American-Association-of-Immunologists*  
Jiang, N., He, J., Weinstein, J., Penland, L., Saaki, S., He, X., Dekker, C., Wilson, P., Greenberg, H., Davis, M., Fisher, D., Quake, S.  
AMER ASSOC IMMUNOLOGISTS.2012
- **Rhesus Rotavirus Trafficking during Entry into MA104 Cells Is Restricted to the Early Endosome Compartment** *JOURNAL OF VIROLOGY*  
Wolf, M., Deal, E. M., Greenberg, H. B.  
2012; 86 (7): 4009-4013
- **Cross-Linking of Rotavirus Outer Capsid Protein VP7 by Antibodies or Disulfides Inhibits Viral Entry** *JOURNAL OF VIROLOGY*  
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2011; 85 (20): 10509-10517
- **Limited efficacy of inactivated influenza vaccine in elderly individuals is associated with decreased production of vaccine-specific antibodies** *JOURNAL OF CLINICAL INVESTIGATION*  
Sasaki, S., Sullivan, M., Narvaez, C. F., Holmes, T. H., Furman, D., Zheng, N., Nishtala, M., Wrammert, J., Smith, K., James, J. A., Dekker, C. L., Davis, M. M., Wilson, et al  
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- **Reconciliation of Rotavirus Temperature-Sensitive Mutant Collections and Assignment of Reassortment Groups D, J, and K to Genome Segments** *JOURNAL OF VIROLOGY*  
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- **The Early Interferon Response to Rotavirus Is Regulated by PKR and Depends on MAVS/IPS-1, RIG-I, MDA-5, and IRF3** *JOURNAL OF VIROLOGY*  
Sen, A., Pruijssers, A. J., Dermody, T. S., Garcia-Sastre, A., Greenberg, H. B.  
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- **Rhesus Rotavirus Entry into a Polarized Epithelium Is Endocytosis Dependent and Involves Sequential VP4 Conformational Changes** *JOURNAL OF VIROLOGY*  
Wolf, M., Vo, P. T., Greenberg, H. B.  
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- **Roles of VP4 and NSP1 in Determining the Distinctive Replication Capacities of Simian Rotavirus RRV and Bovine Rotavirus UK in the Mouse Biliary Tract** *JOURNAL OF VIROLOGY*  
Feng, N., Sen, A., Wolf, M., Vo, P., Hoshino, Y., Greenberg, H. B.  
2011; 85 (6): 2686-2694
- **Plasmablast-derived polyclonal antibody response after influenza vaccination** *JOURNAL OF IMMUNOLOGICAL METHODS*  
He, X., Sasaki, S., Narvaez, C. F., Zhang, C., Liu, H., Woo, J. C., Kemble, G. W., Dekker, C. L., Davis, M. M., Greenberg, H. B.  
2011; 365 (1-2): 67-75
- **Membrane Vesicles Released by Intestinal Epithelial Cells Infected with Rotavirus Inhibit T-Cell Function** *VIRAL IMMUNOLOGY*

- Barreto, A., Rodriguez, L., Lucia Rojas, O., Wolf, M., Greenberg, H. B., Franco, M. A., Angel, J.  
2010; 23 (6): 595-608
- **Rotavirus Structural Proteins and dsRNA Are Required for the Human Primary Plasmacytoid Dendritic Cell IFN alpha Response** *PLOS PATHOGENS*  
Deal, E. M., Jaimes, M. C., Crawford, S. E., Estes, M. K., Greenberg, H. B.  
2010; 6 (6)
  - **Differential Transcriptional Responses to Interferon-alpha and Interferon-gamma in Primary Human Hepatocytes** *JOURNAL OF INTERFERON AND CYTOKINE RESEARCH*  
He, X., Nanda, S., Ji, X., Calderon-Rodriguez, G. M., Greenberg, H. B., Liang, T. J.  
2010; 30 (5): 311-320
  - **Rotavirus Differentially Infects and Polyclonally Stimulates Human B Cells Depending on Their Differentiation State and Tissue of Origin** *JOURNAL OF VIROLOGY*  
Narvaez, C. F., Franco, M. A., Angel, J., Morton, J. M., Greenberg, H. B.  
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