




## Harry B Greenberg

Joseph D. Grant Professor in the School of Medicine, Emeritus  
Medicine - Gastroenterology & Hepatology

 NIH Biosketch available Online

 Curriculum Vitae available Online

### CONTACT INFORMATION

#### • Administrative Contact

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### Bio

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### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine - Gastroenterology & Hepatology
- 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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### 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

- **Lactobacillus acidophilus Expressing Murine Rotavirus VP8 and Mucosal Adjuvants Induce Virus-Specific Immune Responses.** *Vaccines*  
Gilfillan, D., Vilander, A. C., Pan, M., Goh, Y. J., O'Flaherty, S., Feng, N., Fox, B. E., Lang, C., Greenberg, H. B., Abdo, Z., Barrangou, R., Dean, G. A.  
2023; 11 (12)
- **Corrected and republished from: "VP4 Is a Determinant of Alpha-Defensin Modulation of Rotaviral Infection".** *Journal of virology*  
Hu, C. T., Diaz, K., Yang, L. C., Sharma, A., Greenberg, H. B., Smith, J. G.  
2023: e0096223
- **Mucosal and systemic neutralizing antibodies to norovirus induced in infant mice orally inoculated with recombinant rotaviruses.** *Proceedings of the National Academy of Sciences of the United States of America*  
Kawagishi, T., Sanchez-Tacuba, L., Feng, N., Costantini, V. P., Tan, M., Jiang, X., Green, K. Y., Vinje, J., Ding, S., Greenberg, H. B.  
2023; 120 (9): e2214421120
- **Intranasal M2SR (M2-deficient Single Replication) H3N2 Influenza Vaccine Provides Enhanced Mucosal and Serum Antibodies In Adults.** *The Journal of infectious diseases*  
Eiden, J., Fierro, C., Schwartz, H., Adams, M., Ellis, K. J., Aitchison, R., Herber, R., Hatta, Y., Marshall, D., Moser, M. J., Belshe, R., Greenberg, H., Coelingh, et al  
2022
- **Rotavirus Infection Elicits Host Responses via P2Y1 Purinergic Signaling**  
Engevik, K., Kawagishi, T., Gebert, J., Scribano, F., Perry, J., Greenberg, H., Hyser, J.  
ELSEVIER SCIENCE INC.2022: S5
- **Rotavirus VP4 Epitope of a Broadly Neutralizing Human Antibody Defined by Its Structure Bound with an Attenuated-Strain Virion.** *Journal of virology*  
Jenni, S., Li, Z., Wang, Y., Bessey, T., Salgado, E. N., Schmidt, A. G., Greenberg, H. B., Jiang, B., Harrison, S. C.  
2022: e0062722
- **The Dengue Virus Nonstructural Protein 1 (NS1) Interacts with the Putative Epigenetic Regulator DIDO1 to Promote Flavivirus Replication in Mosquito Cells.** *Journal of virology*  
Caraballo, G. I., Rosales, R., Vietri, M., Castillo, J. M., Cruz, R., Ding, S., Greenberg, H. B., Ludert, J. E.  
2022: e0070422
- **VP4 Is a Determinant of Alpha-Defensin Modulation of Rotaviral Infection.** *Journal of virology*  
Hu, C. T., Diaz, K., Yang, L. C., Sharma, A., Greenberg, H. B., Smith, J. G.  
2022: e0205321
- **The Role of the VP4 Attachment Protein in Rotavirus Host Range Restriction in an In Vivo Suckling Mouse Model** *Journal of Virology*  
Sánchez-Tacuba, L., Kawagishi, T., Feng, N., Jiang, B., Ding, S., Greenberg, H.  
2022
- **A recombinant murine-like rotavirus with Nano-Luciferase expression reveals tissue tropism, replication dynamics, and virus transmission.** *Frontiers in immunology*  
Zhu, Y., Sanchez-Tacuba, L., Hou, G., Kawagishi, T., Feng, N., Greenberg, H. B., Ding, S.  
2022; 13: 911024
- **Rotavirus NSP1 Contributes to Intestinal Viral Replication, Pathogenesis, and Transmission.** *mBio*  
Hou, G., Zeng, Q., Matthijssens, J., Greenberg, H. B., Ding, S.  
1800: e0320821
- **Safety and Immunogenicity of M2-Deficient, Single Replication, Live Influenza Vaccine (M2SR) in Adults.** *Vaccines*  
Eiden, J., Gordon, G., Fierro, C., Herber, R., Aitchison, R., Belshe, R., Greenberg, H., Hoft, D., Hatta, Y., Moser, M. J., Tary-Lehmann, M., Kawaoka, Y., Neumann, et al  
1800; 9 (12)
- **Rotavirus NSP1 Contributes to Intestinal Viral Replication, Pathogenesis, and Transmission** *MBIO*  
Hou, G., Zeng, Q., Matthijssens, J., Greenberg, H. B., Ding, S.

2021; 12 (6)

- **Single Replication M2SR Influenza Vaccine Induced Immune Responses Associated with Protection Against Human Challenge with Highly Drifted H3N2 Influenza Strain.** *The Journal of infectious diseases*  
Eiden, J., Volckaert, B., Rudenko, O., Aitchison, R., Herber, R., Belshe, R., Greenberg, H., Coelingh, K., Marshall, D., Kawaoka, Y., Neumann, G., Bilsel, P.  
2021
- **Perspectives for the optimization and utility of the rotavirus reverse genetics system.** *Virus research*  
Ding, S., Greenberg, H. B.  
2021: 198500
- **A CD22-Shp1 phosphatase axis controls integrin beta 7 display and B cell function in mucosal immunity**  
Ballet, R., Brennan, M., Brandl, C., Feng, N., Berri, J., Cheng, J., Ocon, B., Sheikh, A., Marki, A., Bi, Y., Abram, C., Lowell, C.  
WILEY.2021
- **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
- **Elucidating the Role of Host Purinergic Signaling During Rotavirus Infection**  
Engevik, K. A., Gebert, J. T., Perry, J. L., Scribano, F. J., Kawagishi, T., Greenberg, H., Hyser, J. M.  
ELSEVIER SCIENCE INC.2021: S4-S5
- **Inhibitor of growth protein 3 epigenetically silences endogenous retroviral elements and prevents innate immune activation.** *Nucleic acids research*  
Song, Y., Hou, G., Diep, J., Ooi, Y. S., Akopyants, N. S., Beverley, S. M., Carette, J. E., Greenberg, H. B., Ding, S.  
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)
- **alphavbeta8 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*

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- **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., Shalpour, 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
- **Rotavirus degrades multiple type interferon receptors to inhibit IFN signaling and protects against mortality from endotoxin in suckling mice.** *Journal of virology*  
Sen, A., Sharma, A., Greenberg, H. B.  
2017
  - **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
  - **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., Rodriguez, J. A., Rodriguez, 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)
  - **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.  
2015
  - **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

- **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  
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- **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  
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- **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
- **Rotavirus.** *Microbiology spectrum*  
Franco, M. A., Greenberg, H. B.  
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- **Permissive Replication of Homologous Murine Rotavirus in the Mouse Intestine Is Primarily Regulated by VP4 and NSP1** *JOURNAL OF VIROLOGY*  
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- **Combinatorial tetramer staining and mass cytometry analysis facilitate T-cell epitope mapping and characterization** *NATURE BIOTECHNOLOGY*  
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- **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  
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- **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.  
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- **Characterization of Rotavirus RNAs That Activate Innate Immune Signaling through the RIG-I-Like Receptors.** *PloS one*  
Uzri, D., 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.  
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- **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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