

CURRICULUM VITAE

NAME AND CONTACT INFORMATION

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EDUCATION

- B.S. degree 1996, Biology, Francis Marion University, Florence, S.C.
- Ph.D. degree 2003, Microbiology, Louisiana State University Health Science Center, Shreveport, LA, Mentor: Dr. Dennis J. O'Callaghan

POSTDOCTORAL TRAINING

- Postdoctoral Fellow, Department of Microbiology and Immunology, Louisiana State Uni. Health Sci. Center, Shreveport, LA, 2003-2004
 - ❖ Conducted research on the molecular biology of equine herpesviruses.
- Postdoctoral Fellow, Department of Microbiology, Mount Sinai School of Medicine, New York, NY, 2004-2010
 - ❖ Conducted experiments within BSL2 and enhanced BSL3 laboratories that examined influenza virus replication, pathogenesis, and transmission,
 - ❖ Conducted vaccination/challenge studies with novel influenza virus vaccines.

ACADEMIC APPOINTMENTS

- Assistant Professor, Department of Microbiology, Icahn School of Medicine at Mount Sinai, 2010-2013
 - ❖ Conducted experiments within BSL2 and enhanced BSL3 laboratories that examined on influenza virus replication, pathogenesis, and transmission,
 - ❖ Conducted vaccination/challenge studies with novel influenza virus vaccines,
 - ❖ Provided training to students, postdoctoral fellows, and visiting scientists on BSL3 biocontainment practices and influenza A virus reverse genetics,
 - ❖ Directed a serology core that conducted standardized serological assays to measure levels of influenza virus-specific antibodies in human and animal sera,
 - ❖ Contributed to operational oversight of the enhanced BSL3 Emerging Pathogens Facility.
- Associate Professor, Department of Microbiology, Icahn School of Medicine at Mount Sinai, 2013-present
 - ❖ Involved in the National Institutes of Health funded Centers of Excellence for Influenza Research and Surveillance (CEIRS) which supports a global network of colleagues studying influenza viruses,
 - ❖ Direct two service cores that developed and distributed wild-type and recombinant influenza A viruses, and mammalian expression plasmids,
 - ❖ Direct a serology core that conducted standardized serological assays to measure levels of influenza virus-specific antibodies in human and animal sera,
 - ❖ Provide training to students, postdoctoral fellows, and visiting scientists on BSL3 biocontainment practices and influenza A virus reverse genetics,
 - ❖ Supervise all experiments that required enhanced biosafety level 3 biocontainment,

- ❖ Conduct in vitro and in vivo research on influenza virus replication, pathogenesis, and transmission,
- ❖ Assess influenza virus vaccines in vaccination/challenge studies

ACADEMIC ADMINISTRATIVE APPOINTMENTS

- Director, Emerging Pathogens Facility, Global Health and Emerging Pathogens Institute
 - ❖ Provide operational and administrative oversight of the enhanced BSL3 Emerging Pathogens Facility, including select agent registration and inspections by federal regulatory agencies,
 - ❖ Has the authority and responsibility to ensure that research conducted in the enhanced BSL-3 Emerging Pathogens Facility is in compliance with the guidelines established in the Biosafety Manual and that researchers comply with the protocols approved by the Institutional Biosafety Committee (IBC)
- Responsible Official, Select Agent and Toxins Program
 - ❖ Identified by the registered entity, the Icahn School of Medicine at Mount Sinai, as having the authority and responsibility to act on behalf of the entity to ensure compliance with the Select Agent Regulations

PROFESSIONAL MEMBERSHIPS

1997 - present	American Society for Microbiology, Member
2000 - present	American Society for Virology, Member
2004 - present	New York Academy of Sciences, Member
2014 - present	The International Society for Vaccines, Member
	2018 Congress, Scientific Committee Member
2016 - present	American Biological Safety Association, Member

SCIENTIFIC ACTIVITIES

Ad Hoc Reviewer

Clinical Vaccine Immunology, Frontiers in Immunology, Journal of Virology, Influenza and Other Respiratory Viruses, Nature Scientific Reports, PLoS One, PLoS Pathogens, Virology, Virus Genes, Virus Research

Editorial Board Membership

2018 - present	Editorial board (member), <i>MDPI Vaccines</i>
2013 - present	Editorial board (reviewer), <i>Journal of Virology</i>
2013 - 2017	Editorial board (reviewer), <i>Clinical Vaccine Immunology</i>

COMMITTEE AND ADMINISTRATIVE SERVICE

INTERNAL:

- Institutional Animal Care and Use Committee (Icahn School of Medicine at Mount Sinai)
- Institutional Biosafety Committee (Icahn School of Medicine at Mount Sinai)
- Institutional Dual Use Compliance Committee (Icahn School of Medicine at Mount Sinai)
- Laboratory Safety Committee (Icahn School of Medicine at Mount Sinai)
- CCMS Faculty Advisory Committee (Icahn School of Medicine at Mount Sinai)

EXTERNAL:

Chair; Training and Research Capacity Building program, NIH/NIAID Centers of Excellence for Influenza Research and Surveillance (CEIRS).

CEIRS supports a global influenza virus research network of collaborating research institutions. The CEIRS training program provides predoctoral and postdoctoral trainees from this global network with hands on

experience in new techniques and research experience with influenza viruses. The specific aims of the training program are (i) to recruit and provide rigorous training to high caliber students and fellows, (ii) to provide an administrative structure which will support and coordinate influenza virus research training between participating institutions of CEIRS, (iii) to facilitate the dissemination of techniques among CEIRS research groups and institutions, and (iv) to provide an extramural training mechanism for students and fellows from institutions outside of the CEIRS network.

RESEARCH GRANT PARTICIPATION

PRIME: Program for Research on Immune Modeling and Experimentation (10/01/10 –9/30/15)

- Sponsoring Agency: NIH/NIAID HHSN272201000054C
- Role: Co-investigator (PI: Stuart Sealfon)
- Grant Objective: This major goal of this five-institution research program is to develop an integrated experimental data-based model of the molecular responses of human dendritic cells to infection by pathogenic virus.

Systems Analysis of Vaccine Responses in Healthy and Hyporesponsive Humans (07/01/11-06/30/15)

“Influenza virus neutralization assay.”

- Sponsoring Agency: NIH/NIAID U19AI089987
- Role: Co-investigator (PI: A. Karolina Palucka)
- Grant Objective: This serology core is a research component of the NIAID Human Immunology Project Consortium (HIPC) U19. The function of the serology core is to study humoral responses of young and adult humans to vaccination with seasonal influenza vaccines.

Multiscale analysis of influenza host-pathogen interactions: Fluomics (06/01/13-05/31/18)

“Core G: Virus Core”

- Sponsoring Agency: NIH/NIAID U19AI106754
- Role: Co-investigator (PI: Adolfo García-Sastre)
- Grant Objective: The Virus Core is a research component of the “Multiscale analysis of influenza host-pathogen interactions: Fluomics” U19. The Virology Core is responsible for developing and maintaining working stocks of wild-type and recombinant influenza viruses, and to develop expression systems for epitope-tagged influenza virus proteins.

Modeling Early Immunity to Human Influenza Infection (5/8/15-4/30/20)

“Core B: Virology”

- Sponsoring Agency: NIH/NIAID U19AI117873
- Role: Co-investigator (PI: Stuart Sealfon)
- Grant Objective: This major goal of this research program is to develop an integrated experimental data-based model of the molecular responses of human respiratory epithelial and dendritic cells to infection by influenza viruses.

CRIP (Center for Research on Influenza Pathogenesis) (04/01/14-03/31/21)

“Host specific interactions of NEP”

- Sponsoring Agency: NIH/NIAID HHSN272201400008C
- Role: Co-investigator (PI: Adolfo García-Sastre)
- Grant Objective: This subproject is a research component of the NIAID Center of Excellence for Influenza Research and Surveillance “Center for Research on Influenza Pathogenesis.” This subproject is dedicated to determining the contribution of nuclear export protein to replication, pathogenesis, and transmission of animal influenza viruses.

Ferret cell determinants of hepatitis C virus tropism (12/06/2016 – 11/30/2018)

- Sponsoring Agency: NIH/NIAID R21AI127924 (PI: Matthew Evans)
- Role: Co-investigator

- Grant Objective: This major goal of this R21 is to identify the species specific cellular determinants that confer a host-restriction upon hepatitis C virus entry and infection.

Development of a New, More Effective Live-Attenuated Influenza Vaccine: An Essential Platform for Future Pandemic Protection (09/01/2018 – 8/31/2020)

- Sponsoring Agency: DoD/CDMRP W81XWH-17-1-0168 (PI: Stephen Dewhurst)
- Role: Subcontract PI
- Grant Objective: The focus of this grant is to develop novel live attenuated influenza vaccines that confer broad protection against influenza disease caused by infection with diverse influenza virus subtypes. This subcontract funds ferret studies that will assess the level of protection conferred by vaccination against challenge infection with influenza virus.

CAREER SUMMARY

I am a Research Associate Professor in the Department of Microbiology, and is affiliated with the Global Health and Emerging Pathogens Institute and the Center for Research on Influenza Pathogenesis, an NIH-funded Center of Excellence for Influenza Research and Surveillance (CEIRS). My research broadly focuses on host-pathogen interactions involving respiratory viruses, including select agent pathogens that require enhanced BSL3 biocontainment. Specific areas of research include studies examining replication, pathogenesis, and transmission of respiratory viruses, innate and adaptive immune responses to influenza virus infection or vaccination, development of novel vaccines, development of serological assays to detect neutralizing antibodies against respiratory viruses, and studies examining adaptation of viruses to new hosts. I am currently expanding my expertise with small animal models of influenza to other viral respiratory diseases. These research interests have enabled me to develop expertise with biosafety and biosecurity principles and practices for conducting experiments with viral pathogens in biocontainment. Accordingly, I serve as the Director of the Emerging Pathogens Facility (EPF) of the Global Health and Emerging Pathogens Institute (GHEPI), and as Responsible Official for the institution's Select Agents and Toxins Program.

IMPACT

I have provided essential contributions to *in vitro* and *in vivo* (mouse, ferret, guinea pig, and swine) studies on influenza viruses; including select agent influenza viruses that require enhanced BSL3 biocontainment. I have developed expertise with influenza virus reverse genetics, and is developing expertise in small animal models of viral respiratory disease. I am well versed in the rules and regulations regarding experiments involving infectious agents and recombinant viruses. My research on molecular virology, vaccines, and pathogenesis has benefited from a collaborative network of colleagues at national and international institutions, and my research is documented by over 50 peer-reviewed journal articles.

Some of the highlights of my career are:

1. My research on host-pathogen interactions primarily focuses on viruses that infect the respiratory tract, with particular emphasis on influenza viruses. Critical to these collaborative research efforts are the use of animal models of influenza which are utilized to investigate aspects that govern the molecular biology, pathogenesis, and transmission of influenza viruses.
 - a. Langlois*, R. A., **R. A. Albrecht***, B. Kimble, T. Sutton, J. S. Shapiro, C. Finch, M. Angel, M. A. Chua, A. S. Gonzalez-Reiche, K. Xu, D. Perez, A. Garcia-Sastre, and B. R. tenOever. 2013. MicroRNA-based strategy to mitigate the risk of gain-of-function influenza studies. *Nature biotechnology* 31:844-847. PMC3808852 *coauthorship.
 - b. Varble, A., **R. A. Albrecht**, S. Backes, M. Crumiller, N. M. Bouvier, D. Sachs, A. Garcia-Sastre, and B. R. tenOever. 2014. Influenza a virus transmission bottlenecks are defined by infection route and recipient host. *Cell host & microbe* 16:691-700. PMC4272616
 - c. Seibert, C. W., S. Rahmat, J. C. Krause, D. Eggink, **R. A. Albrecht**, P. H. Goff, F. Krammer, J. A. Duty, N. M. Bouvier, A. Garcia-Sastre, and P. Palese. 2013. Recombinant IgA is sufficient to

prevent influenza virus transmission in guinea pigs. *Journal of virology* 87:7793-7804. PMC3700183

- d. Skinner, J. A., S. M. Zurawski, C. Sugimoto, H. Vinet-Oliphant, P. Vinod, Y. Xue, K. Russell-Lodrigue, **R. A. Albrecht**, A. Garcia-Sastre, A. M. Salazar, C. J. Roy, M. J. Kuroda, S. Oh, and G. Zurawski. 2014. Immunologic characterization of a rhesus macaque H1N1 challenge model for candidate influenza virus vaccine assessment. *Clinical and vaccine immunology : CVI* 21:1668-1680. PMC4248778
2. Currently licensed inactivated and live attenuated influenza virus vaccines have been proven to reduce the impact of influenza. These licensed vaccines typically induce immune responses that specifically neutralize influenza viruses that are closely related to the vaccine strain; however, the protective efficacy of these neutralizing responses diminishes with antigenic drift. Novel influenza vaccines that induce protective immunity against more conserved antigens such as the hemagglutinin stalk domain hold the promise to provide broadly neutralizing antibody responses that could confer increased protection against antigenic drift and possibly against pandemic influenza. I have contributed to several collaborative research studies that have examined the potential of novel influenza vaccines to stimulate humoral immune responses that confer protection against influenza virus challenge.
 - a. Perez-Giron, J. V., A. Belicha-Villanueva, E. Hassan, S. Gomez-Medina, J. L. Cruz, A. Ludtke, P. Ruibal, **R. A. Albrecht**, A. Garcia-Sastre, and C. Munoz-Fontela. 2014. Mucosal polyinosinic-polycytidylic acid improves protection elicited by replicating influenza vaccines via enhanced dendritic cell function and T cell immunity. *Journal of immunology* 193:1324-1332. PMC4111144
 - b. Krammer, F., **R. A. Albrecht**, G. S. Tan, I. Margine, R. Hai, M. Schmolke, J. Runstadler, S. F. Andrews, P. C. Wilson, R. J. Cox, J. J. Treanor, A. Garcia-Sastre, and P. Palese. 2014. Divergent H7 immunogens offer protection from H7N9 virus challenge. *Journal of virology* 88:3976-3985. PMC3993735
 - c. Krammer, F., R. Hai, M. Yondola, G. S. Tan, V. H. Leyva-Grado, A. B. Ryder, M. S. Miller, J. K. Rose, P. Palese, A. Garcia-Sastre, and **R. A. Albrecht**. 2014. Assessment of influenza virus hemagglutinin stalk-based immunity in ferrets. *Journal of virology* 88:3432-3442. PMC3957929
 - d. Kasturi, S. P., I. Skountzou, **R. A. Albrecht**, D. Koutsouanos, T. Hua, H. I. Nakaya, R. Ravindran, S. Stewart, M. Alam, M. Kwissa, F. Villinger, N. Murthy, J. Steel, J. Jacob, R. J. Hogan, A. Garcia-Sastre, R. Compans, and B. Pulendran. 2011. Programming the magnitude and persistence of antibody responses with innate immunity. *Nature* 470:543-547. PMC3057367
 3. My research interests on development of influenza vaccines also include studies on humoral responses to influenza vaccines, and development and validation of in vitro assays to quantitatively measure antibody-mediated virus neutralization.
 - a. He, X. S., T. H. Holmes, M. Sanyal, **R. A. Albrecht**, A. Garcia-Sastre, C. L. Dekker, M. M. Davis, and H. B. Greenberg. 2015. Distinct patterns of B-cell activation and priming by natural influenza virus infection versus inactivated influenza vaccination. *The Journal of infectious diseases* 211:1051-1059. PMC4366605
 - b. Sasaki, S., T. H. Holmes, **R. A. Albrecht**, A. Garcia-Sastre, C. L. Dekker, X. S. He, and H. B. Greenberg. 2014. Distinct cross-reactive B-cell responses to live attenuated and inactivated influenza vaccines. *The Journal of infectious diseases* 210:865-874. PMC4200073
 - c. Jackson, K. J., Y. Liu, K. M. Roskin, J. Glanville, R. A. Hoh, K. Seo, E. L. Marshall, T. C. Gurley, M. A. Moody, B. F. Haynes, E. B. Walter, H. X. Liao, **R. A. Albrecht**, A. Garcia-Sastre, J. Chaparro-Riggers, A. Rajpal, J. Pons, B. B. Simen, B. Hanczaruk, C. L. Dekker, J. Laserson, D. Koller, M. M. Davis, A. Z. Fire, and S. D. Boyd. 2014. Human responses to influenza vaccination show seroconversion signatures and convergent antibody rearrangements. *Cell host & microbe* 16:105-114. PMC4158033
 - d. Cao, R. G., N. M. Suarez, G. Obermoser, S. M. Lopez, E. Flano, S. E. Mertz, **R. A. Albrecht**, A. Garcia-Sastre, A. Mejias, H. Xu, H. Qin, D. Blankenship, K. Palucka, V. Pascual, and O. Ramilo. 2014. Differences in antibody responses between trivalent inactivated influenza vaccine and live

attenuated influenza vaccine correlate with the kinetics and magnitude of interferon signaling in children. *The Journal of infectious diseases* 210:224-233. PMC4092249

4. Influenza virus pathogenesis in animal models and severity of clinical disease in humans are governed by the interplay between virus replication and the host responses to virus infection. I have contributed to several research studies that have examined host-pathogen interactions with a focus on studying innate immunity to virus infection and how influenza viruses circumvent these innate immune responses. I direct two virus cores that generate recombinant influenza viruses and expression plasmids that are essential reagents for studying host-pathogen interactions and influenza virus pathogenesis.
 - a. Ciancanelli, M. J., S. X. Huang, P. Luthra, H. Garner, Y. Itan, S. Volpi, F. G. Lafaille, C. Trouillet, M. Schmolke, **R. A. Albrecht**, E. Israelsson, H. K. Lim, M. Casadio, T. Hermesh, L. Lorenzo, L. W. Leung, V. Pedergrana, B. Boisson, S. Okada, C. Picard, B. Ringuier, F. Troussier, D. Chaussabel, L. Abel, I. Pellier, L. D. Notarangelo, A. Garcia-Sastre, C. F. Basler, F. Geissmann, S. Y. Zhang, H. W. Snoeck, and J. L. Casanova. 2015. Infectious disease. Life-threatening influenza and impaired interferon amplification in human IRF7 deficiency. *Science* 348:448-453. PMC4431581
 - b. Wang, X., J. Wang, H. Zheng, M. Xie, E. L. Hopewell, **R. A. Albrecht**, S. Nogusa, A. Garcia-Sastre, S. Balachandran, and A. A. Beg. 2014. Differential requirement for the IKKbeta/NF-kappaB signaling module in regulating TLR- versus RLR-induced type 1 IFN expression in dendritic cells. *Journal of immunology* 193:2538-2545.
 - c. Hartmann, B. M., W. Li, J. Jia, S. Patil, N. Marjanovic, C. Martinez-Romero, **R. A. Albrecht**, F. Hayot, A. Garcia-Sastre, J. G. Wetmur, T. M. Moran, and S. C. Sealfon. 2013. Mouse dendritic cell (DC) influenza virus infectivity is much lower than that for human DCs and is hemagglutinin subtype dependent. *Journal of virology* 87:1916-1918. PMC3554152
 - d. Marazzi, I., J. S. Ho, J. Kim, B. Manicassamy, S. Dewell, **R. A. Albrecht**, C. W. Seibert, U. Schaefer, K. L. Jeffrey, R. K. Prinjha, K. Lee, A. Garcia-Sastre, R. G. Roeder, and A. Tarakhovsky. 2012. Suppression of the antiviral response by an influenza histone mimic. *Nature* 483:428-433. PMC3598589

TEACHING ACTIVITIES

- Lecturer, Medical Microbiology, 2011-present
- Lecturer, Biomedical Sciences Course, "Biodefense/Biosecurity", 2016

TRAINEES

- Dr. Wen-Chun Liu, Postdoctoral Fellow, April 2016 to present
- Mr. Jonathan Tepp, August 2015 to present
- Ms. Talia Atlas, August 2015 to present
- Mr. Blake Martin, July 2015 to present, High-school student, Packer Collegiate Institute, Brooklyn, NY
- Mrs. Rachel Blinick, Post-undergraduate, February 2013 to June 2015, presently student, Albert Einstein College of Medicine, Bronx, NY
- Ms. Sarah Reiss, Post-undergraduate, August 2013 to July 2015
- Mrs. Esther Robin, Post-undergraduate, September 2014 to July 2015, presently student, Rutgers New Jersey Medical School, Newark, NJ
- Ms. Hannah N. Marmor, Post-undergraduate, November 2013 to June 2014, presently student, SUNY Upstate Medical University, Syracuse, NY
- Dr. Joo-Yeon Lee, Visiting scientist, February 2013 to October 2013, Korea Centers for Disease Control and Prevention, Seoul, South Korea.
- Ms. Miriam Steinberger, Post-undergraduate, 2012 to 2013, presently student, Albert Einstein College of Medicine, Bronx, NY

- Ms. Anouk Schuren, Post-undergraduate, 2013, presently student, Utrecht Medical Center, The Netherlands
- Ms. Hinal Mehta, Post-undergraduate, 2011 to 2013, presently student, New York Medical College, Valhalla, NY

PUBLICATIONS AND PRESENTATIONS

Peer Reviewed Original Contributions

References

1. Jang, H. K., R. A. Albrecht, K. A. Buczynski, S. K. Kim, W. A. Derbigny, and D. J. O'Callaghan. 2001. Mapping the sequences that mediate interaction of the equine herpesvirus 1 immediate-early protein and human TFIIB. *Journal of virology* 75:10219-10230. PMCD: 114596
2. Albrecht, R. A., H. K. Jang, S. K. Kim, and D. J. O'Callaghan. 2003. Direct interaction of TFIIB and the IE protein of equine herpesvirus 1 is required for maximal trans-activation function. *Virology* 316:302-312. PMCD:
3. Kim, S. K., H. K. Jang, R. A. Albrecht, W. A. Derbigny, Y. Zhang, and D. J. O'Callaghan. 2003. Interaction of the equine herpesvirus 1 EICP0 protein with the immediate-early (IE) protein, TFIIB, and TBP may mediate the antagonism between the IE and EICP0 proteins. *Journal of virology* 77:2675-2685. PMCD: 141080
4. Albrecht, R. A., S. K. Kim, Y. Zhang, Y. Zhao, and D. J. O'Callaghan. 2004. The equine herpesvirus 1 EICP27 protein enhances gene expression via an interaction with TATA box-binding protein. *Virology* 324:311-326. PMCD:
5. Kim, S. K., R. A. Albrecht, and D. J. O'Callaghan. 2004. A negative regulatory element (base pairs -204 to -177) of the EICP0 promoter of equine herpesvirus 1 abolishes the EICP0 protein's trans-activation of its own promoter. *Journal of virology* 78:11696-11706. PMCD: 523287
6. Albrecht, R. A., S. K. Kim, and D. J. O'Callaghan. 2005. The EICP27 protein of equine herpesvirus 1 is recruited to viral promoters by its interaction with the immediate-early protein. *Virology* 333:74-87. PMCD:
7. Kim, S. K., B. C. Ahn, R. A. Albrecht, and D. J. O'Callaghan. 2006. The unique IR2 protein of equine herpesvirus 1 negatively regulates viral gene expression. *Journal of virology* 80:5041-5049. PMCD: 1472049
8. Baskin, C. R., H. Bielefeldt-Ohmann, T. M. Tumpey, P. J. Sabourin, J. P. Long, A. Garcia-Sastre, A. E. Tolnay, R. Albrecht, J. A. Pyles, P. H. Olson, L. D. Aicher, E. R. Rosenzweig, K. Murali-Krishna, E. A. Clark, M. S. Kotur, J. L. Fornek, S. Proll, R. E. Palermo, C. L. Sabourin, and M. G. Katze. 2009. Early and sustained innate immune response defines pathology and death in nonhuman primates infected by highly pathogenic influenza virus. *Proceedings of the National Academy of Sciences of the United States of America* 106:3455-3460. PMCD: 2642661
9. Billharz, R., H. Zeng, S. C. Proll, M. J. Korth, S. Lederer, R. Albrecht, A. G. Goodman, E. Rosenzweig, T. M. Tumpey, A. Garcia-Sastre, and M. G. Katze. 2009. The NS1 protein of the 1918 pandemic influenza virus blocks host interferon and lipid metabolism pathways. *Journal of virology* 83:10557-10570. PMCD: 2753112
10. Gack, M. U., R. A. Albrecht, T. Urano, K. S. Inn, I. C. Huang, E. Carnero, M. Farzan, S. Inoue, J. U. Jung, and A. Garcia-Sastre. 2009. Influenza A virus NS1 targets the ubiquitin ligase TRIM25 to evade recognition by the host viral RNA sensor RIG-I. *Cell host & microbe* 5:439-449. PMCD: 2737813
11. Gannage, M., D. Dormann, R. Albrecht, J. Dengjel, T. Torossi, P. C. Ramer, M. Lee, T. Strowig, F. Arrey, G. Conenello, M. Pypaert, J. Andersen, A. Garcia-Sastre, and C. Munz. 2009. Matrix protein 2 of influenza A virus blocks autophagosome fusion with lysosomes. *Cell host & microbe* 6:367-380. PMCD: 2774833
12. Steel, J., A. C. Lowen, L. Pena, M. Angel, A. Solorzano, R. Albrecht, D. R. Perez, A. Garcia-Sastre, and P. Palese. 2009. Live attenuated influenza viruses containing NS1 truncations as vaccine candidates against H5N1 highly pathogenic avian influenza. *Journal of virology* 83:1742-1753. PMCD: 2643794

13. Weingartl, H. M., R. A. Albrecht, K. M. Lager, S. Babiuk, P. Marszal, J. Neufeld, C. Embury-Hyatt, P. Lekcharoensuk, T. M. Tumpey, A. Garcia-Sastre, and J. A. Richt. 2009. Experimental infection of pigs with the human 1918 pandemic influenza virus. *Journal of virology* 83:4287-4296. PMCD: 2668479
14. Babiuk, S., R. Albrecht, Y. Berhane, P. Marszal, J. A. Richt, A. Garcia-Sastre, J. Pasick, and H. Weingartl. 2010. 1918 and 2009 H1N1 influenza viruses are not pathogenic in birds. *The Journal of general virology* 91:339-342. PMCD: 2888309
15. Brown, J. N., R. E. Palermo, C. R. Baskin, M. Gritsenko, P. J. Sabourin, J. P. Long, C. L. Sabourin, H. Bielefeldt-Ohmann, A. Garcia-Sastre, R. Albrecht, T. M. Tumpey, J. M. Jacobs, R. D. Smith, and M. G. Katze. 2010. Macaque proteome response to highly pathogenic avian influenza and 1918 reassortant influenza virus infections. *Journal of virology* 84:12058-12068. PMCD: 2977874
16. Hale, B. G., R. A. Albrecht, and A. Garcia-Sastre. 2010. Innate immune evasion strategies of influenza viruses. *Future microbiology* 5:23-41. PMCD: 2820251
17. Miotto, O., A. T. Heiny, R. Albrecht, A. Garcia-Sastre, T. W. Tan, J. T. August, and V. Brusic. 2010. Complete-proteome mapping of human influenza A adaptive mutations: implications for human transmissibility of zoonotic strains. *PLoS one* 5:e9025. PMCD: 2815782
18. Seibert, C. W., M. Kaminski, J. Philipp, D. Rubbenstroth, R. A. Albrecht, F. Schwalm, S. Stertz, R. A. Medina, G. Kochs, A. Garcia-Sastre, P. Staeheli, and P. Palese. 2010. Oseltamivir-resistant variants of the 2009 pandemic H1N1 influenza A virus are not attenuated in the guinea pig and ferret transmission models. *Journal of virology* 84:11219-11226. PMCD: 2953187
19. Tolnay, A. E., C. R. Baskin, T. M. Tumpey, P. J. Sabourin, C. L. Sabourin, J. P. Long, J. A. Pyles, R. A. Albrecht, A. Garcia-Sastre, M. G. Katze, and H. Bielefeldt-Ohmann. 2010. Extrapulmonary tissue responses in cynomolgus macaques (*Macaca fascicularis*) infected with highly pathogenic avian influenza A (H5N1) virus. *Archives of virology* 155:905-914. PMCD: 2892232
20. Wang, J., S. H. Basagoudanavar, X. Wang, E. Hopewell, R. Albrecht, A. Garcia-Sastre, S. Balachandran, and A. A. Beg. 2010. NF-kappa B RelA subunit is crucial for early IFN-beta expression and resistance to RNA virus replication. *Journal of immunology* 185:1720-1729. PMCD: 2910841
21. Bortz, E., L. Westera, J. Maamary, J. Steel, R. A. Albrecht, B. Manicassamy, G. Chase, L. Martinez-Sobrido, M. Schwemmler, and A. Garcia-Sastre. 2011. Host- and strain-specific regulation of influenza virus polymerase activity by interacting cellular proteins. *mBio* 2 PMCD: 3157893
22. Chou, Y. Y., R. A. Albrecht, N. Pica, A. C. Lowen, J. A. Richt, A. Garcia-Sastre, P. Palese, and R. Hai. 2011. The M segment of the 2009 new pandemic H1N1 influenza virus is critical for its high transmission efficiency in the guinea pig model. *Journal of virology* 85:11235-11241. PMCD: 3194962
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Book Chapters

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INVITED LECTURES/PRESENTATIONS

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