

# Stanford

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## Ted Jardetzky

Professor of Structural Biology

### CONTACT INFORMATION

- **Administrative Contact**

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### Bio

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### ACADEMIC APPOINTMENTS

- Professor, Structural Biology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Faculty Fellow, Stanford ChEM-H

### HONORS AND AWARDS

- Pew Scholar in the Biomedical Sciences, Pew Foundation (1996-2001)
- Investigator Award, Cancer Research Institute (1999-2003)
- Research Scholar, Leukemia and Lymphoma Society (2001-2006)
- NIH Merit Award, NIAID/NIH (2001-2011)
- Fellow, American Academy of Microbiology (2008)

### PROFESSIONAL EDUCATION

- Ph.D., University of Basel, Switzerland , Biophysical Chemistry (1986)
- B.S., Stanford University , Chemistry (1982)

### Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

The Jardetzky laboratory is studying the structures and mechanisms of macromolecular complexes important in viral pathogenesis, allergic hypersensitivities and the regulation of cellular growth and differentiation, with an interest in uncovering novel conceptual approaches to intervening in disease processes. Ongoing research projects include studies of paramyxovirus and herpesvirus entry mechanisms, IgE-receptor structure and function and TGF-beta ligand signaling pathways.

## Teaching

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### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Benjamin Bell, Caleb Glassman, Suchita Rastogi

#### Postdoctoral Faculty Sponsor

Christopher Benjamin, Ana Rita Castro Otrelo Cardoso, Iti Kapoor, Javaria Najeeb

#### Doctoral Dissertation Advisor (AC)

Luke Pennington

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biophysics (Phd Program)
- Immunology (Phd Program)
- Structural Biology (Phd Program)

## Publications

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### PUBLICATIONS

- **Molecular, structural and mechanistic insight into ligelizumab mediated suppression of IgE dependent allergic responses**  
Gasser, P., Tarchevskaya, S. S., Guntern, P., Brigger, D., Zbaren, N., Kleinboelting, S., Heusser, C., Jardetzky, T. S., Eggel, A.  
WILEY.2019: 115
- **IPSE, a parasite-derived host immunomodulatory protein, is a potential therapeutic for hemorrhagic cystitis** *AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY*  
Zee, R. S., Mbanefo, E. C., Le, L. H., Pennington, L. F., Odegaard, J., Jardetzky, T. S., Alouffi, A., Akinwale, J., Falcone, F. H., Hsieh, M. H.  
2019; 316 (6): F1133–F1140
- **IPSE, a parasite-derived host immunomodulatory protein, is a potential therapeutic for hemorrhagic cystitis.** *American journal of physiology. Renal physiology*  
Zee, R. S., Mbanefo, E. C., Le, L. H., Pennington, L. F., Odegaard, J., Jardetzky, T. S., Alouffi, A., Akinwale, J., Falcone, F. H., Hsieh, M. H.  
2019
- **Ephrin Receptor A4 is a New Kaposi's Sarcoma-Associated Herpesvirus Virus Entry Receptor.** *mBio*  
Chen, J., Zhang, X., Schaller, S., Jardetzky, T. S., Longnecker, R.  
2019; 10 (1)
- **IPSE, a urogenital parasite-derived immunomodulatory protein, ameliorates ifosfamide-induced hemorrhagic cystitis through downregulation of proinflammatory pathways** *SCIENTIFIC REPORTS*  
Mbanefo, E. C., Le, L., Zee, R., Banskota, N., Ishida, K., Pennington, L. F., Odegaard, J. I., Jardetzky, T., Alouffi, A., Falcone, F. H., Hsieh, M. H.  
2019; 9
- **IPSE, a urogenital parasite-derived immunomodulatory protein, ameliorates ifosfamide-induced hemorrhagic cystitis through downregulation of pro-inflammatory pathways.** *Scientific reports*  
Mbanefo, E. C., Le, L., Zee, R., Banskota, N., Ishida, K., Pennington, L. F., Odegaard, J. I., Jardetzky, T. S., Alouffi, A., Falcone, F. H., Hsieh, M. H.  
2019; 9 (1): 1586
- **HCMV trimer- and pentamer-specific antibodies synergize for virus neutralization but do not correlate with congenital transmission.** *Proceedings of the National Academy of Sciences of the United States of America*  
Vanarsdall, A. L., Chin, A. L., Liu, J., Jardetzky, T. S., Mudd, J. O., Orloff, S. L., Streblow, D., Mussi-Pinhata, M. M., Yamamoto, A. Y., Duarte, G., Britt, W. J., Johnson, D. C.  
2019
- **The soluble isoform of human Fc epsilon RI is an endogenous inhibitor of IgE-mediated mast cell responses** *ALLERGY*

- Monino-Romero, S., Erkert, L., Schmidthaler, K., Diesner, S. C., Sallis, B. F., Pennington, L., Jardetzky, T., Oettgen, H. C., Bohle, B., Fiebiger, E., Szepfalusi, Z. 2019; 74 (2): 236–45
- **Driving Immune Responses with Synthetic Proteins - Development of De Novo Designed Immunogens to Elicit Respiratory Syncytial Virus Neutralizing Antibodies**  
Sesterhenn, F., Yang, C., Bonet, J., Galloux, M., Wen, X., Cramer, J., Henrioud, P., Rosset, S., Eleouet, J., Jardetzky, T., Krey, T., Riffault, S., Correia, et al WILEY.2018: 49–50
  - **The human cytomegalovirus trimer and pentamer promote sequential steps in entry into epithelial and endothelial cells at cell surfaces and endosomes.** *Journal of virology*  
Liu, J., Jardetzky, T. S., Chin, A. L., Johnson, D. C., Vanarsdall, A. L. 2018
  - **Therapeutic exploitation of IPSE, a urogenital parasite-derived host modulatory protein, for chemotherapy-induced hemorrhagic cystitis** *FASEB JOURNAL*  
Mbanefo, E. C., Le, L., Pennington, L. F., Odegaard, J. I., Jardetzky, T. S., Alouffi, A., Falcone, F. H., Hsieh, M. H. 2018; 32 (8): 4408–19
  - **An engineered IgE-Fc variant inhibits basophil degranulation ex vivo**  
Gasser, P., Brigger, D., Zbaren, N., Jardetzky, T., Pennington, L., Eggel, A. WILEY.2018: 610
  - **Ephrin receptor A2 is a functional entry receptor for Epstein-Barr virus.** *Nature microbiology*  
Chen, J., Sathiyamoorthy, K., Zhang, X., Schaller, S., Perez White, B. E., Jardetzky, T. S., Longnecker, R. 2018
  - **THE INTERLEUKIN-4 INDUCING PRINCIPLE FROM <it>SCHISTOSOMA MANSONI</it> EGGS (IPSE) EXACERBATES UTI-INDUCED PAIN AND SUPPRESSES ANTI-MICROBIAL PEPTIDE PRODUCTION**  
Mbanefo, E., Pennington, L., Lapira, K., Jardetzky, T., Falcone, F., Hsieh, M. AMER SOC TROP MED & HYGIENE.2018: 7
  - **CD147 Promotes Entry of Pentamer-Expressing Human Cytomegalovirus into Epithelial and Endothelial Cells.** *mBio*  
Vanarsdall, A. L., Pritchard, S. R., Wisner, T. W., Liu, J., Jardetzky, T. S., Johnson, D. C. 2018; 9 (3)
  - **Epstein-Barr Virus Fusion with Epithelial Cells Triggered by gB Is Restricted by a gL Glycosylation Site** *JOURNAL OF VIROLOGY*  
Mohl, B. S., Chen, J., Park, S., Jardetzky, T. S., Longnecker, R. 2017; 91 (23)
  - **The COMPLEXity in herpesvirus entry.** *Current opinion in virology*  
Sathiyamoorthy, K., Chen, J., Longnecker, R., Jardetzky, T. S. 2017; 24: 97-104
  - **Structural basis for antibody cross-neutralization of respiratory syncytial virus and human metapneumovirus.** *Nature microbiology*  
Wen, X., Mousa, J. J., Bates, J. T., Lamb, R. A., Crowe, J. E., Jardetzky, T. S. 2017; 2: 16272-?
  - **Editorial overview: Virus structure and functions.** *Current opinion in virology*  
Jardetzky, T., Kuhn, R., Lamb, R. 2017; 24: ix
  - **Inhibition of EBV-mediated membrane fusion by anti-gHgL antibodies.** *Proceedings of the National Academy of Sciences of the United States of America*  
Sathiyamoorthy, K., Jiang, J., Möhl, B. S., Chen, J., Zhou, Z. H., Longnecker, R., Jardetzky, T. S. 2017
  - **Monomeric ephrinB2 binding induces allosteric changes in Nipah virus G that precede its full activation.** *Nature communications*  
Wong, J. J., Young, T. A., Zhang, J., Liu, S., Leser, G. P., Komives, E. A., Lamb, R. A., Zhou, Z. H., Salafsky, J., Jardetzky, T. S. 2017; 8 (1): 781
  - **SCHISTOSOMA HAEMATOBIIUM IPSE INDUCES CELLULAR PROLIFERATION, CELL CYCLE ALTERATIONS, ANGIOGENESIS, AND TRANSCRIPTIONAL PROFILES CONSISTENT WITH PRO-CARCINOGENIC EFFECTS**

Mbanefo, E., Saltykova, I. V., Pennington, L., Jardetzky, T., Ayoglu, B., Utz, P. J., Alouffi, A., Falcone, F. H., Brindley, P. J., Hsieh, M.  
 AMER SOC TROP MED & HYGIENE.2017: 203

- **INFILTRINS AS A NEW CLASS OF PATHOGEN-SECRETED, HOST NUCLEUS INFILTRATING PROTEINS IN TREMATODES**  
 Alouffi, A., Pennington, L. F., Mongan, N., Flynn, R. J., Heery, D. M., Jardetzky, T., Mbanefo, E. C., Hsieh, M. H., Falcone, F. H.  
 AMER SOC TROP MED & HYGIENE.2017: 203
- **H-IPSE is a pathogen-secreted host nucleus infiltrating protein (infiltrin) expressed exclusively by the Schistosoma haematobium egg stage.** *Infection and immunity*  
 Pennington, L. F., Alouffi, A., Mbanefo, E. C., Ray, D., Heery, D. M., Jardetzky, T. S., Hsieh, M. H., Falcone, F. H.  
 2017
- **Structural basis for Epstein-Barr virus host cell tropism mediated by gp42 and gHgL entry glycoproteins** *NATURE COMMUNICATIONS*  
 Sathiyamoorthy, K., Hu, Y. X., Mohl, B. S., Chen, J., Longnecker, R., Jardetzky, T. S.  
 2016; 7
- **Structural basis for nonneutralizing antibody competition at antigenic site II of the respiratory syncytial virus fusion protein.** *Proceedings of the National Academy of Sciences of the United States of America*  
 Mousa, J. J., Sauer, M. F., Sevy, A. M., Finn, J. A., Bates, J. T., Alvarado, G., King, H. G., Loerinc, L. B., Fong, R. H., Doranz, B. J., Correia, B. E., Kalyuzhnyi, O., Wen, et al  
 2016; 113 (44): E6849-E6858
- **The Cytoplasmic Tail Domain of Epstein-Barr Virus gH Regulates Membrane Fusion Activity through Altering gH Binding to gp42 and Epithelial Cell Attachment** *MBIO*  
 Chen, J., Jardetzky, T. S., Longnecker, R.  
 2016; 7 (6)
- **Flexibility of the Head-Stalk Linker Domain of Paramyxovirus HN Glycoprotein Is Essential for Triggering Virus Fusion** *JOURNAL OF VIROLOGY*  
 Adu-Gyamfi, E., Kim, L. S., Jardetzky, T. S., Lamb, R. A.  
 2016; 90 (20): 9172-9181
- **Mutagenesis of Paramyxovirus Hemagglutinin-Neuraminidase Membrane-Proximal Stalk Region Influences Stability, Receptor Binding, and Neuraminidase Activity** *JOURNAL OF VIROLOGY*  
 Adu-Gyamfi, E., Kim, L. S., Jardetzky, T. S., Lamb, R. A.  
 2016; 90 (17): 7778-7788
- **Immobilization of the N-terminal helix stabilizes prefusion paramyxovirus fusion proteins** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
 Song, A. S., Poor, T. A., Abriata, L. A., Jardetzky, T. S., Dal Peraro, M., Lamb, R. A.  
 2016; 113 (27): E3844-E3851
- **A Chimeric Pneumovirus Fusion Protein Carrying Neutralizing Epitopes of Both MPV and RSV** *PLOS ONE*  
 Wen, X., Pickens, J., Mousa, J. J., Leser, G. P., Lamb, R. A., Crowe, J. E., Jardetzky, T. S.  
 2016; 11 (5)
- **Structural basis of omalizumab therapy and omalizumab-mediated IgE exchange** *NATURE COMMUNICATIONS*  
 Pennington, L. F., Tarchevskaya, S., Brigger, D., Sathiyamoorthy, K., Graham, M. T., Nadeau, K. C., Eggel, A., Jardetzky, T. S.  
 2016; 7
- **Structural and Mechanistic Insights into the Tropism of Epstein-Barr Virus** *MOLECULES AND CELLS*  
 Moehl, B. S., Chen, J., Sathiyamoorthy, K., Jardetzky, T. S., Longnecker, R.  
 2016; 39 (4): 286-291
- **Comparative Mutagenesis of Pseudorabies Virus and Epstein-Barr Virus gH Identifies a Structural Determinant within Domain III of gH Required for Surface Expression and Entry Function** *JOURNAL OF VIROLOGY*  
 Moehl, B. S., Schroeter, C., Klupp, B. G., Fuchs, W., Mettenleiter, T. C., Jardetzky, T. S., Longnecker, R.  
 2016; 90 (5): 2285-2293
- **Structure and stabilization of the Hendra virus F glycoprotein in its prefusion form** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
 Wong, J. J., Paterson, R. G., Lamb, R. A., Jardetzky, T. S.

2016; 113 (4): 1056-1061

- **Structure and stabilization of the Hendra virus F glycoprotein in its prefusion form.** *Proceedings of the National Academy of Sciences of the United States of America*  
Wong, J. J., Paterson, R. G., Lamb, R. A., Jardetzky, T. S.  
2016; 113 (4): 1056-61
- **Comparative Mutagenesis of Pseudorabies Virus and Epstein-Barr Virus gH Identifies a Structural Determinant within Domain III of gH Required for Surface Expression and Entry Function.** *Journal of virology*  
Möhl, B. S., Schröter, C., Klupp, B. G., Fuchs, W., Mettenleiter, T. C., Jardetzky, T. S., Longnecker, R.  
2015; 90 (5): 2285-2293
- **Timing is everything: Fine-tuned molecular machines orchestrate paramyxovirus entry** *VIROLOGY*  
Bose, S., Jardetzky, T. S., Lamb, R. A.  
2015; 479: 518-531
- **On the stability of parainfluenza virus 5 f proteins.** *Journal of virology*  
Poor, T. A., Song, A. S., Welch, B. D., Kors, C. A., Jardetzky, T. S., Lamb, R. A.  
2015; 89 (6): 3438-3441
- **Membrane Anchoring of Epstein-Barr Virus gp42 Inhibits Fusion with B Cells Even with Increased Flexibility Allowed by Engineered Spacers.** *mBio*  
Rowe, C. L., Chen, J., Jardetzky, T. S., Longnecker, R.  
2015; 6 (1)
- **Timing is everything: Fine-tuned molecular machines orchestrate paramyxovirus entry.** *Virology*  
Bose, S., Jardetzky, T. S., Lamb, R. A.  
2015; 479-480: 518-31
- **Three-dimensional structure of the human class II histocompatibility antigen HLA-DR1** *JOURNAL OF IMMUNOLOGY*  
Brown, J. H., Jardetzky, T. S., Gorga, J. C., Stern, L. J., Urban, R. G., Strominger, J. L., Wiley, D. C.  
2015; 194 (1): 5-11
- **Pillars Article: Three-Dimensional Structure of the Human Class II Histocompatibility Antigen HLA-DR1.** *Nature*. 1993. 364: 33-39. *Journal of immunology*  
Brown, J. H., Jardetzky, T. S., Gorga, J. C., Stern, L. J., Urban, R. G., Strominger, J. L., Wiley, D. C.  
2015; 194 (1): 5-11
- **The Conserved Disulfide Bond within Domain II of Epstein-Barr Virus gH Has Divergent Roles in Membrane Fusion with Epithelial Cells and B Cells** *JOURNAL OF VIROLOGY*  
Moehl, B. S., Sathiyamoorthy, K., Jardetzky, T. S., Longnecker, R.  
2014; 88 (23): 13570-13579
- **The conserved disulfide bond within domain II of Epstein-Barr virus gH has divergent roles in membrane fusion with epithelial cells and B cells.** *Journal of virology*  
Möhl, B. S., Sathiyamoorthy, K., Jardetzky, T. S., Longnecker, R.  
2014; 88 (23): 13570-13579
- **Probing the Functions of the Paramyxovirus Glycoproteins F and HN with a Panel of Synthetic Antibodies** *JOURNAL OF VIROLOGY*  
Welch, B. D., Paduch, M., Leser, G. P., Bergman, Z., Kors, C. A., Paterson, R. G., Jardetzky, T. S., Kossiakoff, A. A., Lamb, R. A.  
2014; 88 (20): 11713-11725
- **The Epstein-Barr Virus (EBV) Glycoprotein B Cytoplasmic C-Terminal Tail Domain Regulates the Energy Requirement for EBV-Induced Membrane Fusion** *JOURNAL OF VIROLOGY*  
Chen, J., Zhang, X., Jardetzky, T. S., Longnecker, R.  
2014; 88 (20): 11686-11695
- **Assembly and architecture of the EBV B cell entry triggering complex.** *PLoS pathogens*  
Sathiyamoorthy, K., Jiang, J., Hu, Y. X., Rowe, C. L., Möhl, B. S., Chen, J., Jiang, W., Mellins, E. D., Longnecker, R., Zhou, Z. H., Jardetzky, T. S.  
2014; 10 (8)
- **Assembly and Architecture of the EBV B Cell Entry Triggering Complex.** *PLoS pathogens*

Sathiyamoorthy, K., Jiang, J., Hu, Y. X., Rowe, C. L., Möhl, B. S., Chen, J., Jiang, W., Mellins, E. D., Longnecker, R., Zhou, Z. H., Jardetzky, T. S.  
2014; 10 (8): e1004309

- **Probing the paramyxovirus fusion (F) protein-refolding event from pre- to postfusion by oxidative footprinting** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Poor, T. A., Jones, L. M., Sood, A., Leser, G. P., Plasencia, M. D., Rempel, D. L., Jardetzky, T. S., Woods, R. J., Gross, M. L., Lamb, R. A.  
2014; 111 (25): E2596-E2605
- **Probing the paramyxovirus fusion (F) protein-refolding event from pre- to postfusion by oxidative footprinting.** *Proceedings of the National Academy of Sciences of the United States of America*  
Poor, T. A., Jones, L. M., Sood, A., Leser, G. P., Plasencia, M. D., Rempel, D. L., Jardetzky, T. S., Woods, R. J., Gross, M. L., Lamb, R. A.  
2014; 111 (25): E2596-605
- **Accelerated dissociation of IgE-Fc epsilon RI complexes by disruptive inhibitors actively desensitizes allergic effector cells** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*  
Eggel, A., Baravalle, G., Hobi, G., Kim, B., Buschor, P., Forrer, P., Shin, J., Vogel, M., Stadler, B. M., Dahinden, C. A., Jardetzky, T. S.  
2014; 133 (6): 1709-?
- **Activation of paramyxovirus membrane fusion and virus entry** *CURRENT OPINION IN VIROLOGY*  
Jardetzky, T. S., Lamb, R. A.  
2014; 5: 24-33
- **Fusion Activation through Attachment Protein Stalk Domains Indicates a Conserved Core Mechanism of Paramyxovirus Entry into Cells** *JOURNAL OF VIROLOGY*  
Bose, S., Song, A. S., Jardetzky, T. S., Lamb, R. A.  
2014; 88 (8): 3925-3941
- **Mutations in the Parainfluenza Virus 5 Fusion Protein Reveal Domains Important for Fusion Triggering and Metastability** *JOURNAL OF VIROLOGY*  
Bose, S., Heath, C. M., Shah, P. A., Alayyoubi, M., Jardetzky, T. S., Lamb, R. A.  
2013; 87 (24): 13520-13531
- **Structure of the Parainfluenza Virus 5 (PIV5) Hemagglutinin-Neuraminidase (HN) Ectodomain** *PLOS PATHOGENS*  
Welch, B. D., Yuan, P., Bose, S., Kors, C. A., Lamb, R. A., Jardetzky, T. S.  
2013; 9 (8)
- **The Large Groove Found in the gH/gL Structure Is an Important Functional Domain for Epstein-Barr Virus Fusion** *JOURNAL OF VIROLOGY*  
Chen, J., Jardetzky, T. S., Longnecker, R.  
2013; 87 (7): 3620-3627
- **A Readily Applicable Strategy to Convert Peptides to Peptoid-based Therapeutics** *PLOS ONE*  
Park, M., Wetzler, M., Jardetzky, T. S., Barron, A. E.  
2013; 8 (3)
- **A soluble form of Epstein-Barr virus gH/gL inhibits EBV-induced membrane fusion and does not function in fusion** *VIROLOGY*  
Rowe, C. L., Connolly, S. A., Chen, J., Jardetzky, T. S., Longnecker, R.  
2013; 436 (1): 118-126
- **A time-resolved fluorescence resonance energy transfer assay suitable for high-throughput screening for inhibitors of immunoglobulin E-receptor interactions** *ANALYTICAL BIOCHEMISTRY*  
Kim, B., Tarchevskaya, S. S., Eggel, A., Vogel, M., Jardetzky, T. S.  
2012; 431 (2): 84-89
- **Accelerated disassembly of IgE-receptor complexes by a disruptive macromolecular inhibitor** *NATURE*  
Kim, B., Eggel, A., Tarchevskaya, S. S., Vogel, M., Prinz, H., Jardetzky, T. S.  
2012; 491 (7425): 613-?
- **Reversible Inhibition of Fusion Activity of a Paramyxovirus Fusion Protein by an Engineered Disulfide Bond in the Membrane-Proximal External Region** *JOURNAL OF VIROLOGY*  
Zokarkar, A., Connolly, S. A., Jardetzky, T. S., Lamb, R. A.  
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- **An Engineered Disulfide Bond Reversibly Traps the IgE-Fc(3-4) in a Closed, Nonreceptor Binding Conformation** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Wurzburg, B. A., Kim, B., Tarchevskaya, S. S., Eggel, A., Vogel, M., Jardetzky, T. S.  
2012; 287 (43): 36251-36257
- **Structure of the cleavage-activated prefusion form of the parainfluenza virus 5 fusion protein** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Welch, B. D., Liu, Y., Kors, C. A., Leser, G. P., Jardetzky, T. S., Lamb, R. A.  
2012; 109 (41): 16672-16677
- **Fusion activation by a headless parainfluenza virus 5 hemagglutinin-neuraminidase stalk suggests a modular mechanism for triggering** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Bose, S., Zokarkar, A., Welch, B. D., Leser, G. P., Jardetzky, T. S., Lamb, R. A.  
2012; 109 (39): E2625-E2634
- **Structure of the Ulster Strain Newcastle Disease Virus Hemagglutinin-Neuraminidase Reveals Auto-Inhibitory Interactions Associated with Low Virulence** *PLOS PATHOGENS*  
Yuan, P., Paterson, R. G., Leser, G. P., Lamb, R. A., Jardetzky, T. S.  
2012; 8 (8)
- **Structure of the human metapneumovirus fusion protein with neutralizing antibody identifies a pneumovirus antigenic site** *NATURE STRUCTURAL & MOLECULAR BIOLOGY*  
Wen, X., Krause, J. C., Leser, G. P., Cox, R. G., Lamb, R. A., Williams, J. V., Crowe, J. E., Jardetzky, T. S.  
2012; 19 (4): 461-463
- **Inhibin alpha-Subunit N Terminus Interacts with Activin Type IB Receptor to Disrupt Activin Signaling** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Zhu, J., Lin, S. J., Zou, C., Makanji, Y., Jardetzky, T. S., Woodruff, T. K.  
2012; 287 (11): 8060-8070
- **The KGD Motif of Epstein-Barr Virus gH/gL Is Bifunctional, Orchestrating Infection of B Cells and Epithelial Cells** *MBIO*  
Chen, J., Rowe, C. L., Jardetzky, T. S., Longnecker, R.  
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- **Structure and Mutagenesis of the Parainfluenza Virus 5 Hemagglutinin-Neuraminidase Stalk Domain Reveals a Four-Helix Bundle and the Role of the Stalk in Fusion Promotion** *JOURNAL OF VIROLOGY*  
Bose, S., Welch, B. D., Kors, C. A., Yuan, P., Jardetzky, T. S., Lamb, R. A.  
2011; 85 (24): 12855-12866
- **Structure of the Newcastle disease virus hemagglutinin-neuraminidase (HN) ectodomain reveals a four-helix bundle stalk** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Yuan, P., Swanson, K. A., Leser, G. P., Paterson, R. G., Lamb, R. A., Jardetzky, T. S.  
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- **Investigation of the function of the putative self-association site of Epstein-Barr virus (EBV) glycoprotein 42 (gp42)** *VIROLOGY*  
Rowe, C. L., Matsuura, H., Jardetzky, T. S., Longnecker, R.  
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- **Fusing structure and function: a structural view of the herpesvirus entry machinery** *NATURE REVIEWS MICROBIOLOGY*  
Connolly, S. A., Jackson, J. O., Jardetzky, T. S., Longnecker, R.  
2011; 9 (5): 369-381
- **Mapping regions of Epstein-Barr virus (EBV) glycoprotein B (gB) important for fusion function with gH/gL** *VIROLOGY*  
Plate, A. E., Reimer, J. J., Jardetzky, T. S., Longnecker, R.  
2011; 413 (1): 26-38
- **Structure of betaglycan zona pellucida (ZP)-C domain provides insights into ZP-mediated protein polymerization and TGF-beta binding** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Lin, S. J., Hu, Y., Zhu, J., Woodruff, T. K., Jardetzky, T. S.  
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- **A fluorescence polarization assay using an engineered human respiratory syncytial virus F protein as a direct screening platform** *ANALYTICAL BIOCHEMISTRY*  
Park, M., Matsuura, H., Lamb, R. A., Barron, A. E., Jardetzky, T. S.  
2011; 409 (2): 195-201
- **NMEGylation: A Novel Modification to Enhance the Bioavailability of Therapeutic Peptides** *BIOPOLYMERS*  
Park, M., Jardetzky, T. S., Barron, A. E.  
2011; 96 (5): 688-693
- **Class III Viral Membrane Fusion Proteins** *CELL FUSION IN HEALTH AND DISEASE II: CELL FUSION IN DISEASE*  
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