

# Stanford

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## Jan Carette

Associate Professor of Microbiology and Immunology  
Microbiology & Immunology

### Bio

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#### ACADEMIC APPOINTMENTS

- Associate Professor, Microbiology & Immunology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Sarafan ChEM-H

#### HONORS AND AWARDS

- Investigator in the Pathogenesis of Infectious Disease, Burroughs Wellcome Fund (2018)
- Scholar Award, American Asthma Foundation (2014)
- Ann Palmenberg Junior Investigator Award, American Society of Virology (2013)
- Fellow, David & Lucile Packard Foundation (2012)
- NIH Director's New Innovator Award, NIH (2012)
- Baxter Faculty Scholar Award, Baxter Foundation (2011)

#### LINKS

- Carette Lab: <http://med.stanford.edu/carettelab.html>

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our research focuses on the identification of host genes that play critical roles in the pathogenesis of infectious agents including viruses. We use haploid genetic screens in human cells as an efficient approach to perform loss-of-function studies. Besides obtaining fundamental insights on how viruses hijack cellular processes and on host defense mechanisms, it might also facilitate the development of new therapeutic strategies.

### Teaching

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#### COURSES

##### 2023-24

- Advanced Pathogenesis of Bacteria, Viruses, and Eukaryotic Parasites: MI 210 (Win)
- Biology and Applications of CRISPR/Cas9: Genome Editing and Epigenome Modifications: BIOS 268, GENE 268 (Spr)
- Frontiers in Microbiology and Immunology: MI 250 (Aut, Win)

#### 2022-23

- Advanced Pathogenesis of Bacteria, Viruses, and Eukaryotic Parasites: MI 210 (Spr)
- Biology and Applications of CRISPR/Cas9: Genome Editing and Epigenome Modifications: BIOS 268, GENE 268 (Spr)
- Frontiers in Microbiology and Immunology: MI 250 (Aut, Win)

#### 2021-22

- Advanced Pathogenesis of Bacteria, Viruses, and Eukaryotic Parasites: MI 210 (Spr)
- Biology and Applications of CRISPR/Cas9: Genome Editing and Epigenome Modifications: BIOS 268, GENE 268 (Spr)

#### 2020-21

- Advanced Pathogenesis of Bacteria, Viruses, and Eukaryotic Parasites: MI 210 (Spr)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Emily Ashkin, Isabel Delwel, Elysse Grossi-Soyster, Michael Palo

#### Postdoctoral Faculty Sponsor

Rebeca Arroyo Hornero, Pingping Cao, Allison Dupzyk, Christine Peters, Ben Waldman, James Zengel

#### Doctoral Dissertation Advisor (AC)

Emma Esterman, Nicole Tanenbaum, Lauren Varanese, Lily Xu

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Microbiology and Immunology (Phd Program)

## Publications

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### PUBLICATIONS

- **Hardwiring tissue-specific AAV transduction in mice through engineered receptor expression.** *Nature methods*  
Zengel, J., Wang, Y. X., Seo, J. W., Ning, K., Hamilton, J. N., Wu, B., Raie, M., Holbrook, C., Su, S., Clements, D. R., Pillay, S., Puschnik, A. S., Winslow, et al  
2023
- **The human disease gene LYSET is essential for lysosomal enzyme transport and viral infection.** *Science (New York, N.Y.)*  
Richards, C. M., Jabs, S., Qiao, W., Varanese, L. D., Schweizer, M., Mosen, P. R., Riley, N. M., Klüssendorf, M., Zengel, J. R., Flynn, R. A., Rustagi, A., Widen, J. C., Peters, et al  
2022: eabn5648
- **Structure-function analysis of enterovirus protease 2A in complex with its essential host factor SETD3.** *Nature communications*  
Peters, C. E., Schulze-Gahmen, U., Eckhardt, M., Jang, G. M., Xu, J., Pulido, E. H., Bardine, C., Craik, C. S., Ott, M., Gozani, O., Verba, K. A., Hüttenhain, R., Carette, et al  
2022; 13 (1): 5282
- **An RNA-centric dissection of host complexes controlling flavivirus infection.** *Nature microbiology*  
Ooi, Y. S., Majzoub, K., Flynn, R. A., Mata, M. A., Diep, J., Li, J. K., van Buuren, N., Rumachik, N., Johnson, A. G., Puschnik, A. S., Marceau, C. D., Mlera, L., Grabowski, et al  
2019
- **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
- **MLKL Requires the Inositol Phosphate Code to Execute Necroptosis.** *Molecular cell*

- Dovey, C. M., Diep, J. n., Clarke, B. P., Hale, A. T., McNamara, D. E., Guo, H. n., Brown, N. W., Cao, J. Y., Grace, C. R., Gough, P. J., Bertin, J. n., Dixon, S. J., Fiedler, et al  
2018; 70 (5): 936–48.e7
- **A CRISPR toolbox to study virus-host interactions** *NATURE REVIEWS MICROBIOLOGY*  
Puschnik, A. S., Majzoub, K., Ooi, Y. S., Carette, J. E.  
2017; 15 (6): 351-364
  - **A Small-Molecule Oligosaccharyltransferase Inhibitor with Pan-flaviviral Activity.** *Cell reports*  
Puschnik, A. S., Marceau, C. D., Ooi, Y. S., Majzoub, K. n., Rinis, N. n., Contessa, J. N., Carette, J. E.  
2017; 21 (11): 3032–39
  - **Genetic dissection of Flaviviridae host factors through genome-scale CRISPR screens** *NATURE*  
Marceau, C. D., Puschnik, A. S., Majzoub, K., Ooi, Y. S., Brewer, S. M., Fuchs, G., Swaminathan, K., Mata, M. A., Elias, J. E., Sarnow, P., Carette, J. E.  
2016; 535 (7610): 159-?
  - **An essential receptor for adeno-associated virus infection.** *Nature*  
Pillay, S., Meyer, N. L., Puschnik, A. S., Davulcu, O., Diep, J., Ishikawa, Y., Jae, L. T., Wosen, J. E., Nagamine, C. M., Chapman, M. S., Carette, J. E.  
2016; 530 (7588): 108-112
  - **Ebola virus entry requires the cholesterol transporter Niemann-Pick C1** *NATURE*  
Carette, J. E., Raaben, M., Wong, A. C., Herbert, A. S., Obernosterer, G., Mulherkar, N., Kuehne, A. I., Kranzusch, P. J., Griffin, A. M., Ruthel, G., Dal Cin, P., Dye, J. M., Whelan, et al  
2011; 477 (7364): 340-U115
  - **Integrative analysis of functional genomic screening and clinical data identifies a protective role for spironolactone in severe COVID-19.** *Cell reports methods*  
Cousins, H. C., Kline, A. S., Wang, C., Qu, Y., Zengel, J., Carette, J., Wang, M., Altman, R. B., Luo, Y., Cong, L.  
2023; 3 (7): 100503
  - **Lysosomal enzyme trafficking: from molecular mechanisms to human diseases.** *Trends in cell biology*  
Braulke, T., Carette, J. E., Palm, W.  
2023
  - **Autoantibodies are highly prevalent in non-SARS-CoV-2 respiratory infections and critical illness.** *JCI insight*  
Feng, A., Yang, E. Y., Moore, A. R., Dhingra, S., Chang, S. E., Yin, X., Pi, R., Mack, E. K., Völkel, S., Geßner, R., Gündisch, M., Neubauer, A., Renz, et al  
2023; 8 (3)
  - **Nuclear accumulation of host transcripts during Zika Virus Infection.** *PLoS pathogens*  
Leon, K. E., Khalid, M. M., Flynn, R. A., Fontaine, K. A., Nguyen, T. T., Kumar, G. R., Simoneau, C. R., Tomar, S., Jimenez-Morales, D., Dunlap, M., Kaye, J., Shah, P. S., Finkbeiner, et al  
2023; 19 (1): e1011070
  - **TMEM41B and VMP1 modulate cellular lipid and energy metabolism for facilitating dengue virus infection.** *PLoS pathogens*  
Yousefi, M., Lee, W. S., Yan, B., Cui, L., Yong, C. L., Yap, X., Tay, K. S., Qiao, W., Tan, D., Nurazmi, N. I., Linster, M., Smith, G. J., Lee, et al  
2022; 18 (8): e1010763
  - **Genome-wide bidirectional CRISPR screens identify mucins as host factors modulating SARS-CoV-2 infection.** *Nature genetics*  
Biering, S. B., Sarnik, S. A., Wang, E., Zengel, J. R., Leist, S. R., Schafer, A., Sathyan, V., Hawkins, P., Okuda, K., Tau, C., Jangid, A. R., Duffy, C. V., Wei, et al  
2022
  - **Loquacious modulates flaviviral RNA replication in mosquito cells.** *PLoS pathogens*  
Shivaprasad, S., Weng, K. F., Ooi, Y. S., Belk, J., Carette, J. E., Flynn, R., Sarnow, P.  
2022; 18 (4): e1010163
  - **Small RNAs are modified with N-glycans and displayed on the surface of living cells.** *Cell*  
Flynn, R. A., Pedram, K., Malaker, S. A., Batista, P. J., Smith, B. A., Johnson, A. G., George, B. M., Majzoub, K., Villalta, P. W., Carette, J. E., Bertozzi, C. R.  
2021
  - **Discovery and functional interrogation of SARS-CoV-2 RNA-host protein interactions.** *Cell*

- Flynn, R. A., Belk, J. A., Qi, Y., Yasumoto, Y., Wei, J., Alfajaro, M. M., Shi, Q., Mumbach, M. R., Limaye, A., DeWeirdt, P. C., Schmitz, C. O., Parker, K. R., Woo, et al  
2021
- **Return of the Neurotropic Enteroviruses: Co-Opting Cellular Pathways for Infection.** *Viruses*  
Peters, C. E., Carette, J. E.  
2021; 13 (2)
  - **Improved Genome Editing through Inhibition of FANCM and Members of the BTR Dissolvase Complex.** *Molecular therapy : the journal of the American Society of Gene Therapy*  
de Alencastro, G. n., Puzzo, F. n., Pavel-Dinu, M. n., Zhang, F. n., Pillay, S. n., Majzoub, K. n., Tiffany, M. n., Jang, H. n., Sheikali, A. n., Cromer, M. K., Meetei, R. n., Carette, J. E., Porteus, et al  
2021; 29 (3): 1016–27
  - **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
  - **Cracking the cell access code for a deadly virus** *NATURE*  
Zengel, J., Carette, J. E.  
2020; 588 (7837): 223–24
  - **Necroptosis-based CRISPR knockout screen reveals Neuropilin-1 as a critical host factor for early stages of murine cytomegalovirus infection.** *Proceedings of the National Academy of Sciences of the United States of America*  
Lane, R. K., Guo, H., Fisher, A. D., Diep, J., Lai, Z., Chen, Y., Upton, J. W., Carette, J., Mocarski, E. S., Kaiser, W. J.  
2020
  - **Conserved Oligomeric Golgi (COG) Complex Proteins Facilitate Orthopoxvirus Entry, Fusion and Spread.** *Viruses*  
Realegeno, S., Priyamvada, L., Kumar, A., Blackburn, J. B., Hartloge, C., Puschnik, A. S., Sambhara, S., Olson, V. A., Carette, J. E., Lupashin, V., Satheshkumar, P. S.  
2020; 12 (7)
  - **ATRAID regulates the action of nitrogen-containing bisphosphonates on bone.** *Science translational medicine*  
Surface, L. E., Burrow, D. T., Li, J., Park, J., Kumar, S., Lyu, C., Song, N., Yu, Z., Rajagopal, A., Bae, Y., Lee, B. H., Mumm, S., Gu, et al  
2020; 12 (544)
  - **Lipid droplets can promote drug accumulation and activation.** *Nature chemical biology*  
Dubey, R., Stivala, C. E., Nguyen, H. Q., Goo, Y., Paul, A., Carette, J. E., Trost, B. M., Rohatgi, R.  
2020
  - **Structural and cellular biology of adeno-associated virus attachment and entry.** *Advances in virus research*  
Zengel, J. n., Carette, J. E.  
2020; 106: 39–84
  - **Cracking the cell access code for the deadly virus VEEV.** *Nature*  
Zengel, J. n., Carette, J. E.  
2020; 588 (7837): 223–24
  - **Genetic Screens Identify Host Factors for SARS-CoV-2 and Common Cold Coronaviruses.** *Cell*  
Wang, R. n., Simoneau, C. R., Kulsuptrakul, J. n., Bouhaddou, M. n., Travisano, K. A., Hayashi, J. M., Carlson-Stevermer, J. n., Zengel, J. R., Richards, C. M., Fozouni, P. n., Oki, J. n., Rodriguez, L. n., Joehnk, et al  
2020
  - **A memory of eS25 loss drives resistance phenotypes.** *Nucleic acids research*  
Johnson, A. G., Flynn, R. A., Lapointe, C. P., Ooi, Y. S., Zhao, M. L., Richards, C. M., Qiao, W. n., Yamada, S. B., Couthouis, J. n., Gitler, A. D., Carette, J. E., Puglisi, J. D.  
2020
  - **Enhancing the Antiviral Efficacy of RNA-Dependent RNA Polymerase Inhibition by Combination with Modulators of Pyrimidine Metabolism.** *Cell chemical biology*  
Liu, Q. n., Gupta, A. n., Okesli-Armlovich, A. n., Qiao, W. n., Fischer, C. R., Smith, M. n., Carette, J. E., Bassik, M. C., Khosla, C. n.

2020

- **R-spondins engage heparan sulfate proteoglycans to potentiate WNT signaling.** *eLife*  
Dubey, R. n., van Kerkhof, P. n., Jordens, I. n., Malinauskas, T. n., Pusapati, G. V., McKenna, J. K., Li, D. n., Carette, J. E., Ho, M. n., Siebold, C. n., Maurice, M. n., Lebensohn, A. M., Rohatgi, et al  
2020; 9
- **GluA4-Targeted AAV Vectors Deliver Genes Selectively to Interneurons while Relying on the AAV Receptor for Entry.** *Molecular therapy. Methods & clinical development*  
Hartmann, J., Thalheimer, F. B., Hopfner, F., Kerzel, T., Khodosevich, K., Garcia-Gonzalez, D., Monyer, H., Diester, I., Buning, H., Carette, J. E., Fries, P., Buchholz, C. J.  
2019; 14: 252–60
- **Identification of the Cell-Surface Protease ADAM9 as an Entry Factor for Encephalomyocarditis Virus.** *mBio*  
Baggen, J., Thibaut, H. J., Hurdiss, D. L., Wahedi, M., Marceau, C. D., van Vliet, A. L., Carette, J. E., van Kuppeveld, F. J.  
2019; 10 (4)
- **Capsid engineering overcomes barriers toward Adeno-associated viral (AAV) vector-mediated transduction of endothelial cells.** *Human gene therapy*  
Zhang, L., Rossi, A., Lange, L., Meumann, N., Koitzsch, U., Christie, K., Nesbit, A., Moore, T., Hacker, U., Morgan, M. A., Hoffmann, D., Zengel, J. R., Carette, et al  
2019
- **Direct Activation of Human MLKL by a Select Repertoire of Inositol Phosphate Metabolites** *CELL CHEMICAL BIOLOGY*  
McNamara, D. E., Dovey, C. M., Hale, A. T., Quarato, G., Grace, C. R., Guibao, C. D., Diep, J., Nourse, A., Cai, C. R., Wu, H., Kalathur, R. C., Green, D. R., York, et al  
2019; 26 (6): 863–+
- **Impact of a patient-derived hepatitis C viral RNA genome with a mutated microRNA binding site** *PLOS PATHOGENS*  
Mata, M., Neben, S., Majzoub, K., Carette, J., Ramanathan, M., Khavari, P. A., Sarnow, P.  
2019; 15 (5)
- **A Genome-wide Haploid Genetic Screen Identifies Regulators of Glutathione Abundance and Ferroptosis Sensitivity.** *Cell reports*  
Cao, J. Y., Poddar, A., Magtanong, L., Lumb, J. H., Mileur, T. R., Reid, M. A., Dovey, C. M., Wang, J., Locasale, J. W., Stone, E., Cole, S. P., Carette, J. E., Dixon, et al  
2019; 26 (6): 1544
- **Differential and convergent utilization of autophagy components by positive-strand RNA viruses.** *PLoS biology*  
Abernathy, E., Mateo, R., Majzoub, K., van Buuren, N., Bird, S. W., Carette, J. E., Kirkegaard, K.  
2019; 17 (1): e2006926
- **Discovery of gene regulatory elements through a new bioinformatics analysis of haploid genetic screens.** *PloS one*  
Patel, B. B., Lebensohn, A. M., Pusapati, G. V., Carette, J. E., Salzman, J. n., Rohatgi, R. n.  
2019; 14 (1): e0198463
- **GPR108 Is a Highly Conserved AAV Entry Factor.** *Molecular therapy : the journal of the American Society of Gene Therapy*  
Dudek, A. M., Zabaleta, N. n., Zinn, E. n., Pillay, S. n., Zengel, J. n., Porter, C. n., Franceschini, J. S., Estelien, R. n., Carette, J. E., Zhou, G. L., Vandenberghe, L. H.  
2019
- **Honey bee Royalactin unlocks conserved pluripotency pathway in mammals.** *Nature communications*  
Wan, D. C., Morgan, S. L., Spencley, A. L., Mariano, N., Chang, E. Y., Shankar, G., Luo, Y., Li, T. H., Huh, D., Huynh, S. K., Garcia, J. M., Dovey, C. M., Lumb, et al  
2018; 9 (1): 5078
- **A Dock-and-Lock Mechanism Clusters ADAM10 at Cell-Cell Junctions to Promote alpha-Toxin Cytotoxicity.** *Cell reports*  
Shah, J., Rouaud, F., Guerrero, D., Vasileva, E., Popov, L. M., Kelley, W. L., Rubinstein, E., Carette, J. E., Amieva, M. R., Citi, S.  
2018; 25 (8): 2132
- **Editing N-Glycan Site Occupancy with Small-Molecule Oligosaccharyltransferase Inhibitors** *CELL CHEMICAL BIOLOGY*  
Rinis, N., Golden, J. E., Marceau, C. D., Carette, J. E., Van Zandt, M. C., Gilmore, R., Contessa, J. N.  
2018; 25 (10): 1231–+

- **Species-independent contribution of ZBP1/DAI/DLM-1-triggered necroptosis in host defense against HSV1** *CELL DEATH & DISEASE*  
Guo, H., Gilley, R. P., Fisher, A., Lane, R., Landsteiner, V. J., Ragan, K. B., Dovey, C. M., Carette, J. E., Upton, J. W., Mocarski, E. S., Kaiser, W. J.  
2018; 9: 816
- **KREMEN1 Is a Host Entry Receptor for a Major Group of Enteroviruses** *CELL HOST & MICROBE*  
Staring, J., van den Hengel, L. G., Raaben, M., Blomen, V. A., Carette, J. E., Brummelkamp, T. R.  
2018; 23 (5): 636-+
- **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
- **An alternate route for adeno-associated virus entry independent of AAVR.** *Journal of virology*  
Dudek, A. M., Pillay, S. n., Puschnik, A. S., Nagamine, C. M., Cheng, F. n., Qiu, J. n., Carette, J. E., Vandenberghe, L. H.  
2018
- **SETD3 is an actin histidine methyltransferase that prevents primary dystocia.** *Nature*  
Wilkinson, A. W., Diep, J. n., Dai, S. n., Liu, S. n., Ooi, Y. S., Song, D. n., Li, T. M., Horton, J. R., Zhang, X. n., Liu, C. n., Trivedi, D. V., Ruppel, K. M., Vilches-Moure, et al  
2018
- **RNA-protein interaction detection in living cells.** *Nature methods*  
Ramanathan, M. n., Majzoub, K. n., Rao, D. S., Neela, P. H., Zarnegar, B. J., Mondal, S. n., Roth, J. G., Gai, H. n., Kovalski, J. R., Siprashvili, Z. n., Palmer, T. D., Carette, J. E., Khavari, et al  
2018
- **AAV serotypes have distinctive interactions with domains of the cellular receptor AAVR.** *Journal of virology*  
Pillay, S., Zou, W., Cheng, F., Puschnik, A. S., Meyer, N. L., Ganaie, S. S., Deng, X., Wosen, J. E., Davulcu, O., Yan, Z., Engelhardt, J. F., Brown, K. E., Chapman, et al  
2017
- **Monkeypox Virus Host Factor Screen Using Haploid Cells Identifies Essential Role of GARP Complex in Extracellular Virus Formation.** *Journal of virology*  
Realegeno, S., Puschnik, A. S., Kumar, A., Goldsmith, C., Burgado, J., Sambhara, S., Olson, V. A., Carroll, D., Damon, I., Hirata, T., Kinoshita, T., Carette, J. E., Satheshkumar, et al  
2017; 91 (11)
- **Host determinants of adeno-associated viral vector entry.** *Current opinion in virology*  
Pillay, S., Carette, J. E.  
2017; 24: 124-131
- **Antigen presentation profiling reveals recognition of lymphoma immunoglobulin neoantigens** *NATURE*  
Khodadoust, M. S., Olsson, N., Wagar, L. E., Haabeth, O. A., Chen, B., Swaminathan, K., Rawson, K., Liu, C. L., Steiner, D., Lund, P., Rao, S., Zhang, L., Marceau, et al  
2017; 543 (7647): 723-?
- **PLA2G16 represents a switch between entry and clearance of Picornaviridae.** *Nature*  
Staring, J., von Castelmur, E., Blomen, V. A., van den Hengel, L. G., Brockmann, M., Baggen, J., Thibaut, H. J., Nieuwenhuis, J., Janssen, H., Van Kuppeveld, F. J., Perrakis, A., Carette, J. E., Brummelkamp, et al  
2017; 541 (7637): 412-416
- **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 genetic screens in human cells reveal new regulatory mechanisms in WNT signaling** *ELIFE*  
Lebensohn, A. M., Dubey, R., Neitzel, L. R., Tacchelly-Benites, O., Yang, E., Marceau, C. D., Davis, E. M., Patel, B. B., Bahrami-Nejad, Z., Travaglini, K. J., Ahmed, Y., Lee, E., Carette, et al  
2016; 5
- **Complement pathway amplifies caspase-11-dependent cell death and endotoxin-induced sepsis severity.** *journal of experimental medicine*

- Napier, B. A., Brubaker, S. W., Sweeney, T. E., Monette, P., Rothmeier, G. H., Gertszvolf, N. A., Puschnik, A., Carette, J. E., Khatri, P., Monack, D. M.  
2016; 213 (11): 2365-2382
- **Chromatin-Remodeling Complex SWI/SNF Controls Multidrug Resistance by Transcriptionally Regulating the Drug Efflux Pump ABCB1** *CANCER RESEARCH*  
Dubey, R., Lebensohn, A. M., Bahrami-Nejad, Z., Marceau, C., Champion, M., Gevaert, O., Sikic, B. I., Carette, J. E., Rohatgi, R.  
2016; 76 (19): 5810-5821
  - **Parallel shRNA and CRISPR-Cas9 screens enable antiviral drug target identification** *NATURE CHEMICAL BIOLOGY*  
Deans, R. M., Morgens, D. W., Okesli, A., Pillay, S., Horlbeck, M. A., Kampmann, M., Gilbert, L. A., Li, A., Mateo, R., Smith, M., Glenn, J. S., Carette, J. E., Khosla, et al  
2016; 12 (5): 361-?
  - **A Single Residue in Ebola Virus Receptor NPC1 Influences Cellular Host Range in Reptiles.** *mSphere*  
Ndungo, E., Herbert, A. S., Raaben, M., Obernosterer, G., Biswas, R., Miller, E. H., Wirchnianski, A. S., Carette, J. E., Brummelkamp, T. R., Whelan, S. P., Dye, J. M., Chandran, K.  
2016; 1 (2)
  - **Gene essentiality and synthetic lethality in haploid human cells.** *Science*  
Blomen, V. A., Májek, P., Jae, L. T., Bigenzahn, J. W., Nieuwenhuis, J., Staring, J., Sacco, R., van Diemen, F. R., Olk, N., Stukalov, A., Marceau, C., Janssen, H., Carette, et al  
2015; 350 (6264): 1092-1096
  - **The adherens junctions control susceptibility to Staphylococcus aureus a-toxin.** *Proceedings of the National Academy of Sciences of the United States of America*  
Popov, L. M., Marceau, C. D., Starkl, P. M., Lumb, J. H., Shah, J., Guerrero, D., Cooper, R. L., Merakou, C., Bouley, D. M., Meng, W., Kiyonari, H., Takeichi, M., Galli, et al  
2015; 112 (46): 14337-14342
  - **A forward genetic screen reveals novel independent regulators of ULBP1, an activating ligand for natural killer cells** *ELIFE*  
Gowen, B. G., Chim, B., Marceau, C. D., Greene, T. T., Burr, P., Gonzalez, J. R., Hesser, C. R., Dietzen, P. A., Russell, T., Iannello, A., Coscoy, L., Sentman, C. L., Carette, et al  
2015; 4
  - **Kinetic pathway of 40S ribosomal subunit recruitment to hepatitis C virus internal ribosome entry site.** *Proceedings of the National Academy of Sciences of the United States of America*  
Fuchs, G., Petrov, A. N., Marceau, C. D., Popov, L. M., Chen, J., O'Leary, S. E., Wang, R., Carette, J. E., Sarnow, P., Puglisi, J. D.  
2015; 112 (2): 319-325
  - **Identifying multi-locus chromatin contacts in human cells using tethered multiple 3C.** *BMC genomics*  
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