

# Stanford

---



## Sky Brubaker

Postdoctoral Research Fellow, Microbiology and Immunology

### Bio

---

#### HONORS AND AWARDS

- Travel Award Scholarship, NIH, NIAID - Regulation and Dysregulation of Innate Immunity in Disease, Keystone Symposium (2018)
- Loan Repayment Program Award, National Institutes of Health - Funded by the National Institute of Allergy and Infectious Diseases (2017-2019)
- NRSA Postdoctoral Fellowship, Stanford Immunology Program, NIH Training Grant (2017)
- Dean's Postdoctoral Fellowship, Stanford School of Medicine (2016)
- NRSA Postdoctoral Fellowship, Department of Microbiology and Immunology, Stanford School of Medicine, NIH Training Grant (2015)
- Nominee, Weintraub Graduate Award, Fred Hutchinson Cancer Research Center (2014)
- Honorable Mention, NSF Graduate Research Fellowship (2010)
- Alumni Scholarship for Emerging Leaders, University of California, Berkeley (2004)
- Dean's Honor List, University of California, Berkeley (2003)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Harvard University (2014)
- Bachelor of Arts, University of California Berkeley (2006)

#### STANFORD ADVISORS

- Denise Monack, Postdoctoral Faculty Sponsor

### Teaching

---

#### COURSES

##### 2018-19

- Writing Graduate Research Fellowships: BIOS 271 (Aut)

##### 2017-18

- Applied Grant-Writing Skills for Fellowships: BIOS 263 (Spr)
- Writing Graduate Research Fellowships: BIOS 271 (Aut)

### Publications

---

#### PUBLICATIONS

- **Host inflammasome defense mechanisms and bacterial pathogen evasion strategies.** *Current opinion in immunology*  
Brewer, S. M., Brubaker, S. W., Monack, D. M.

---

2019; 60: 63–70

- **Ten simple rules for writing a career development award proposal** *PLOS COMPUTATIONAL BIOLOGY*  
Botham, C. M., Arribere, J. A., Brubaker, S. W., Beier, K. T.  
2017; 13 (12): e1005863
- **Cell-Intrinsic Defense at the Epithelial Border Wall: Salmonella Pays the Price** *IMMUNITY*  
Brubaker, S. W., Monack, D. M.  
2017; 46 (4): 522–24
- **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
- **Cutting Edge: Inflammasome Activation in Primary Human Macrophages Is Dependent on Flagellin** *JOURNAL OF IMMUNOLOGY*  
Kortmann, J., Brubaker, S. W., Monack, D. M.  
2015; 195 (3): 815-819
- **IMMUNOLOGY. Microbial metabolite triggers antimicrobial defense.** *Science*  
Brubaker, S. W., Monack, D. M.  
2015; 348 (6240): 1207-1208
- **Cutting Edge: Inflammasome Activation in Primary Human Macrophages Is Dependent on Flagellin.** *Journal of immunology (Baltimore, Md. : 1950)*  
Kortmann, J., Brubaker, S. W., Monack, D. M.  
2015; 195 (3): 815–19
- **Innate Immune Pattern Recognition: A Cell Biological Perspective** *ANNUAL REVIEW OF IMMUNOLOGY VOL 33*  
Brubaker, S. W., Bonham, K. S., Zanoni, I., Kagan, J. C.  
2015; 33: 257-290
- **A Bicistronic MAVS Transcript Highlights a Class of Truncated Variants in Antiviral Immunity** *CELL*  
Brubaker, S. W., Gauthier, A. E., Mills, E. W., Ingolia, N. T., Kagan, J. C.  
2014; 156 (4): 800-811
- **Differential Requirements for NAIP5 in Activation of the NLRC4 Inflammasome** *INFECTIO AND IMMUNITY*  
Lightfield, K. L., Persson, J., Trinidad, N. J., Brubaker, S. W., Kofoed, E. M., Sauer, J., Dunipace, E. A., Warren, S. E., Miao, E. A., Vance, R. E.  
2011; 79 (4): 1606-1614
- **The N-Ethyl-N-Nitrosourea-Induced Goldenticket Mouse Mutant Reveals an Essential Function of Sting in the In Vivo Interferon Response to Listeria monocytogenes and Cyclic Dinucleotides** *INFECTIO AND IMMUNITY*  
Sauer, J., Sotelo-Troha, K., von Moltke, J., Monroe, K. M., Rae, C. S., Brubaker, S. W., Hyodo, M., Hayakawa, Y., Woodward, J. J., Portnoy, D. A., Vance, R. E.  
2011; 79 (2): 688-694
- **Critical function for Naip5 in inflammasome activation by a conserved carboxy-terminal domain of flagellin** *NATURE IMMUNOLOGY*  
Lightfield, K. L., Persson, J., Brubaker, S. W., Witte, C. E., von Moltke, J., Dunipace, E. A., Henry, T., Sun, Y., Cado, D., Dietrich, W. F., Monack, D. M., Tsolis, R. M., Vance, et al  
2008; 9 (10): 1171-1178