



## Emily Stieren, M.D., Ph.D.

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| <b>Philosophy of Care</b>          | I believe in tailoring care to meet the needs of each individual patient by using approaches that combine established evidence-based practices with research-backed innovations. The best approach is one that involves open communication between the neonatologist, a multidisciplinary team of practitioners, and the patient's family. |
| <b>Clinical Interests</b>          | Dr. Stieren is a neonatologist who cares for critically ill newborns and infants in the Neonatal Intensive Care Unit (NICU). She has special clinical interests in developmental care of long-term NICU patients and management, discharge coordination, and follow-up of patients with medical complexity.                                |
| <b>Research/Academic Interests</b> | Dr. Stieren is interested in identifying predictors and early diagnostic markers of neurocognitive disorders so that interventions can be initiated as early as possible for these patients. She also has interest in monitoring and improving neurodevelopmental outcomes for former NICU patients.                                       |
| <b>Title</b>                       | Assistant Professor of Clinical Pediatrics, Division of Neonatology  |
| <b>Specialty</b>                   | Neonatology, Pediatrics, Neonatal-Perinatal Medicine   |
| <b>Department</b>                  | <a href="#">Pediatrics</a>   |
| <b>Division</b>                    | Neonatology  |
| <b>Center/Program Affiliation</b>  | <a href="#">UC Davis Children's Hospital</a>   |
| <b>Address/Phone</b>               | UC Davis Children's Hospital, 2315 Stockton Blvd. Sacramento, CA 95817<br><b>Phone:</b> 800-282-3284   |
| <b>Additional Phone</b>            | Physician Referrals: 800-4-UCDAVIS (800-482-3284)  |
| <b>Education</b>                   | M.D., University of Texas Medical Branch at Galveston, Galveston TX 2012<br>Ph.D., Neuroscience, University of Texas Medical Branch at Galveston, Galveston TX 2012<br>B.S., University of Miami, Coral Gables FL 2002   |
| <b>Internships</b>                 | Pediatrics, UC San Francisco, San Francisco CA 2012-2013   |
| <b>Residency</b>                   | Pediatrics, UC San Francisco, San Francisco CA 2013-2014   |
| <b>Fellowships</b>                 | Neonatal-Perinatal Medicine, UC San Francisco, San Francisco CA 2014-2018  |
| <b>Board Certifications</b>        | American Board of Pediatrics<br>American Board of Pediatrics, Neonatal-Perinatal Medicine  |



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### Professional Memberships

American Academy of Pediatrics  
American Physician Scientists Association  
American Society for Cell Biology  
California Association of Neonatologists  
Society for Neuroscience  
Society for Pediatric Research

### Honors and Awards

Postdoctoral Research Fellowship, AP Giannini Foundation, 2017  
Extramural Loan Repayment Award for Pediatric Research, National Institutes of Health, 2016  
National Research Service Award (F30), National Institutes of Health, 2007

### Select Recent Publications

<https://www.ncbi.nlm.nih.gov/myncbi/emily.stieren.1/bibliography/public/>

El Ayadi A, Stieren ES, Barral JM, Boehning D. Ubiquilin-1 and protein quality control in Alzheimer disease. *Prion*. 2013 Mar-Apr;7(2):164-9. doi:10.4161/pri.23711. Epub 2013 Jan 29. PMID:23360761.

El Ayadi A, Stieren ES, Barral JM, Oberhauser AF, Boehning D. Purification and aggregation of the amyloid precursor protein intracellular domain. *J Vis Exp*. 2012 Aug 28;(66):e4204. doi:10.3791/4204. PMID:22952038.

El Ayadi A, Stieren ES, Barral JM, Boehning D. Ubiquilin-1 regulates amyloid precursor protein maturation and degradation by stimulating K63-linked polyubiquitination of lysine 688. *Proc Natl Acad Sci USA*. 2012 Aug 14;109(33):13416-21. doi:10.1073/pnas.1206786109. Epub 2012 Jul 30. PMID:22847417.

Stieren ES, El Ayadi A, Xiao Y, Siller E, Landsverk ML, Oberhauser AF, Barral JM, Boehning D. Ubiquilin-1 is a molecular chaperone for the amyloid precursor protein. *J Biol Chem*. 2011 Oct 14;286(41):35689-35698. doi:10.1074/jbc.M111.243147. Epub 2011 Aug 18. PMID:21852239.

Stieren E, Werchan WP, El Ayadi A, Li F, Boehning D. FAD mutations in amyloid precursor



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protein do not directly perturb intracellular calcium homeostasis. PLoS One. 2010 Aug 5;5(8):e11992. doi:10.1371/journal.pone.0011992. PMID:20700539.

Ironson G, Balbin E, Stieren E, Detz K, Fletcher MA, Schneiderman N, Kumar M. Perceived stress and norepinephrine predict the effectiveness of response to protease inhibitors in HIV. Int J Behav Med. 2008;15(3):221-6. doi:10.1080/10705500802219606. PMID:18696316.

Wozniak AL, Wang X, Stieren ES, Scarbrough SG, Elferink CJ, Boehning D. Requirement of biphasic calcium release from the endoplasmic reticulum for Fas-mediated apoptosis. J Cell Biol. 2006 Dec 4;175(5):709-14. doi:10.1083/jcb.200608035. Epub 2006 Nov 27. PMID:17130290.

Shi T, Wang F, Stieren E, Tong Q. SIRT3, a mitochondrial sirtuin deacetylase, regulates mitochondrial function and thermogenesis in brown adipocytes. J Biol Chem. 2005 Apr 8;280(14):13560-7. doi:10.1074/jbc.M414670200. Epub 2005 Jan 14. PMID:15653680.

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