Aditya Anand

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EDUCATION

2014-2019	PhD, Department of Biochemistry and Biophysics, UCSF, San Francisco, CA
2007-2011	BA, Department of Molecular and Cell Biology, UC Berkeley, Berkeley CA

RESEARCH EXPERIENCE

2014-2019	Graduate research, laboratory of Peter Walter, University of California, San Francisco Mechanism of a memory-enhancing inhibitor of the integrated stress response. CryoEM structures of translation factors eIF2 and eIF2B in active and inactive complexes.
2013-2014	Research, laboratory of David Baker, University of Washington, Seattle Protein engineering using Rosetta.
2010-2013	Research, laboratory of John A. Tainer, Lawrence Berkeley National Laboratory Structural and biochemical analysis of DNA repair enzyme Rad51C.

PUBLICATIONS

*Denotes equal contribution, #Corresponding author, Applicant in bold and listed first in cases of equal contribution.

1. **Anand AA#**, Walter P#. Structural insights into ISRIB, a memory-enhancing inhibitor of the integrated stress response. Invited review for *FEBS*, in press. 2019.
2. Rabouw HH, Visser LJ, Passchier TC, Langereis MA, liu F, Giansanti P, **Anand AA**, Trellet ME, Bonvin AMJJ, Walter P, Heck A, de Groot RJ[#], van Kuppeveld FMJ[#]. Inhibition of the integrated-stress-response by a viral protein that blocks p-eIF2▪eIF2B association. *Submitted*. 2019.
3. **Anand AA*,** Kenner LR*, Nguyen HC, Myasnikov AG, Klose CJ, McGeever LA, Tsai JC, Miller-Vedam LE, Walter P[#], Frost A[#]. Structural basis of eIF2B-catalyzed GDP exchange and phosphoregulation by the integrated stress response. *bioRxiv*. *Science*. 2019.
4. Rabouw HH*, Langereis MA*, **Anand AA**, Visser LJ, de Groot RJ, Walter P[#], van Kuppeveld FMJ[#]. The small molecule ISRIB suppresses the integrated stress response within a defined window of activation. *Proc. Natl. Acad. Sci*. 2019.
5. **Anand AA***, Tsai JC*, Miller-Vedam L*, Jaishankar P, Nguyen HC, Frost A[#], Walter P[#]. Structure of the nucleotide exchange factor eIF2B reveals mechanism of memory-enhancing molecule. *Science*. 2018.
6. Williams GJ, SilDas S, **Anand AA**, Schild D, Tainer JA[#]. Structural insights into the RAD51 paralog complexes reveal molecular details of disease causing mutations. *J Biomol Struct Dyn*. 2015.

SELECTED PRESENTATIONS

May 2019	**Talk and Poster:** Protein Quality Control: From Mechanisms to Disease. Mallorca, Spain.
November 2018	**Poster:** Chilean Society for Cell Biology Annual Meeting. Fundación Sciencia y Vida: Science and Friendship Meeting. Puerto Varas, Chile.
May 2017	**Talk:** World Molecular Engineering Conference, Student Talks, Cabo San Lucas, Mexico.
2015-2016	**Talk and Poster:** UCSF TETRAD Annual Retreat**,** Lake Tahoe, CA.

AWARDS AND HONORS

2015-	QB3/Calico Fellowship
2011	General Distinction Honors, University of California, Berkeley
2011	Molecular and Cell Biology Research Honors, University of California, Berkeley

TEACHING

Fall 2015	Graduate Student Instructor for UCSF Biochemistry course.

MENTORING

2018-	Graduate student, UCSF Tetrad Program, Michael Schoof

2018-	Research technician, Lea McGeever
2017-2018	Research technician, Carolin Klose (subsequent position: graduate student at Technical University of Munich)
2015-	Rotation students, UCSF Tetrad Program, MSTP program

SERVICE AND OUTREACH

2017	Coordinated student-run seminar series including inviting and hosting faculty.
2017	Coordinated "neighborhood symposia", a mini-presentation series with the laboratories of Ron D.Vale, David O. Morgan and R. Dyche Mullins.
2014-	Member, Graduate Queer Alliance

PROFESSIONAL MEMBERSHIPS

2019-	American Association for the Advancement of Science (AAAS)
2018-	Biophysical Society (BPS)
2015-	American Society for Cell Biology (ASCB)