

Claudio A.P. Joazeiro

Professor

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BIRTH July 2, 1968. Salvador, Bahia, Brazil (Brazil and U.S. Citizen)

EDUCATION AND TRAINING

- 1985-1989 University of São Paulo, Brazil. B.S. in Biology.
- 1990 Department of Biochemistry, Chemistry Institute, University of São Paulo, Brazil. M.S. in Biochemistry. Supervisor: Dr. Mari Sogayar. "Fos oncogene: cell transformation and modulation of the response of 3T3 cells to growth regulators."
- 1990-1996 Department of Biology, University of California, San Diego. Ph.D. in Biology. Supervisor: Dr. E. Peter Geiduschek. "The role of the TATA-binding protein (TBP) in transcription by RNA polymerase III."
- 1996 Howard Hughes Medical Institute, UCLA. Post-doctoral training in Molecular Biology. Supervisor: Dr. Owen Witte. "Functional screen for identifying components of Bruton's tyrosine kinase signaling."
- 1997-2000 The Salk Institute, San Diego, California. Post-doctoral training in Molecular Biology and Biochemistry. Supervisor: Dr. Tony Hunter. "RING domain-type Ubiquitin-Protein Ligases."

POSITIONS

Full Professor (W3), Center for Molecular Biology (ZMBH), Universität Heidelberg, Germany (Oct 26, 2015 – present)

Associate Professor, Department of Molecular Medicine, The Scripps Research Institute (Apr 1, 2012-present) (secondary appointment since joining Heidelberg Univ.)

Assistant Professor, Department of Cell Biology, The Scripps Research Institute (Sep 12, 2006-Mar 31, 2012)

Head, Laboratory of Functional Genomics and Drug Discovery, Ubiquitin-Proteasome System; Genomics Institute of the Novartis Foundation (Oct 17, 2000-Sep 11, 2006)

PROFESSIONAL ACTIVITIES

Ad Hoc Reviewer for Grant Study Sections, **NIH Drug Discovery and Molecular Pharmacology study section** (DMP; February 13-14, 2006; June 19-20, 2006); **National Research Council (CNPq, Brazil)**, International Committee evaluating proposals for the National Institutes of Science and Technology (October 27-31, 2008); **National Research Council (CNPq, Brazil)**, final evaluation of the Program “Institutes of the Millennium” (November 23-25, 2009); **NIH SBIR/STTR Cancer Drug Development and Therapeutics study section** (CDDT, ZRG-1 OTC-L; June 29-30, 2009); **NIH Cellular and Molecular Biology of Neurodegeneration study section** (CMND; ZRG1 MDCN-T; December 7, 2011); **American Cancer Society –Tumor Biology and Endocrinology study section** (June 24-25, 2010); **NIH special review panel for Oncology, Division of Translational and Clinical Sciences** (ZRG1 BMCT-C01; December 13, 2013); **NIH Special Emphasis Panel for “Morris K. Udall Centers of Excellence for Parkinson’s Disease Research (P50)”** (ZNS1-SRB J07; August 21-22, 2014); **European Research Council**, ERC Consolidator Grant 2014 Competition, “Molecular and Structural Biology and Biochemistry” section (remote reviewer); **NIH Mitochondrial Cell Signaling Review Panel** (ZES1 LWJ-D ME; December 4-5, 2014); **NIH Director's Early Independence Award** application review (April 2015); **NIH Membrane Biology and Protein Processing study section** (MBPP; June 9-10, 2016).

Membership in Grant Study Sections, **American Cancer Society –Tumor Biology and Endocrinology study section** (2011-2013)

Thesis Committee member: Stevan Djakovic, “Dynamic Regulation of Proteasome Function by Neuronal Activity” (supervisor: Gentry Patrick, UCSD, defense April 2010); Judith Scheliga “eIF3 and Translational Control” (supervisor: Dieter Wolf, Sanford Burnham Institute; studies in progress); Thomas “Kelly” Rainbolt, “Stress Induced Degradation of Mitochondrial YME1L Protease: Sacrificing Quality For Energy” (supervisor: Luke Wiseman, TSRI; studies in progress); Stephanie Papp, “Deubiquitylation of cryptochrome proteins by Hausp” (supervisor: Katja Lamia, TSRI; studies in progress).

Editorial Board Member, *Proteome Science* (Jan 2003-present)

Ad Hoc Reviewer for Scientific Journals: *Cell, Molecular Cell, Nature, Nature Cell Biology, Science, Proceedings of the National Academy of Sciences* and others.

Invited Instructor, **EMBO Course “Ubiquitin and SUMO.”** Split, Croatia, September 12-18, 2008

Invited Instructor, **EMBO Course “Ubiquitin and SUMO.”** Split, Croatia, July 29-August 4, 2010

Instructor, **TSRI Cell Biology graduate course,** 2010-present

Mentor, **undergraduate and graduate minority students.** TSRI-Florida, August 8, 2014

Member, **Keystone Symposia Advisory Committee** for scientific meetings in South America, 2015

Member, Philanthropy Committee, The Scripps Research Institute, 2015

Member, Board of Directors (Direktorium) of the DKFZ-ZMBH Alliance. September 27, 2017 to December 31, 2019

FELLOWSHIPS AND AWARDS

São Paulo State Research Foundation (FAPESP), Brazil. Undergraduate Scientific Training Fellowship, 1987-1989; Master's Student Fellowship, 1989-1990

National Research Council (CNPq), Brazil. Doctoral Student Fellowship, 1991-1995

UC San Diego. Excellence in Teaching Award, 1994

Howard Hughes Medical Institute. Post-doctoral Fellowship, 1996

Irvington Institute for Immunology. Post-doctoral Fellowship, 1996 (Declined)

American Cancer Society. Post-doctoral Fellowship, 1998-2000

Leukemia and Lymphoma Society. Career Development Award, 2000-2003

Brazil's Ministry of Development, Industry and Commerce (MDIC)/ABDI Agency, 1st Brazilian Diaspora Prize “Professional of the Year” in the Human Health sector, 2014

EXTERNAL RESEARCH SUPPORT**Active:**

1R01 NS102414 NIH-NINDS 07/01/2017-06/30/2022
 "CAT-TAILS: A NOVEL TYPE OF PROTEIN MODIFICATION IMPLICATED IN
 NEURODEGENERATION"
 Role: co-PI

SFB 1036 TP19 DFG 07/01/2016-6/30/2020
 "CELLULAR SURVEILLANCE AND DAMAGE RESPONSE"
 Role: PI

Completed:

R01 NS075719 NIH-NINDS 01/15/2012-12/31/2016
 "A NEW E3 LIGASE IMPLICATED IN PROTEIN QUALITY CONTROL AND
 NEURODEGENERATION"
 Role: PI

R01 CA152103 NIH-NCI 03/01/2012-02/28/2017
 "SMALL MOLECULE INHIBITORS OF MDM2 E3 UBIQUITIN LIGASE ACTIVITY FOR CANCER
 THERAPY"
 Role: PI

UL1 TR000109 NIH-NCATS/STSI 10/01/2012-06/30/2013
 "LISTER MUTATIONS IN NEURODEGENERATIVE DISEASE" (Pilot 2.2.283R1)
 Role: PI

RSG-08-298-01-TBE ACS 01/01/2009-12/31/2013
 "A MITOCHONDRIA-ANCHORED E3 UBIQUITIN LIGASE IMPLICATED IN NF- κ B
 SIGNALING"
 Role: PI

R01 GM083060 NIH-NIGMS 12/01/2008-11/30/2013
 "MODULATION OF NF- κ B ACTIVATION BY A NOVEL MITOCHONDRIAL E3 UBIQUITIN
 LIGASE"
 Role: PI

UL1 RR025774 NIH-NCRR/STSI 11/01/2010-05/31/2012
 "LISTER MUTATIONS IN NEURODEGENERATIVE DISEASE"
 Role: PI

PUBLICATIONS

1. Costanzi, E., Rameh, L.E., **Joazeiro, C.A.P.** and Armelin, M.C. 1990. Generation of cell lines to study the role played by oncogenes and anti-oncogenes in cell proliferation control. Braz. J. Med. Biol. Res. 23: 795-799
2. Cassil, J.A., Whitney, M., **Joazeiro, C.A.P.**, Becker, A. and Zuker, C.S. 1991. Isolation of *Drosophila* genes encoding G protein-coupled receptor kinases. Proc. Natl. Acad. Sci. USA 88: 11067-11070
3. Kassavetis, G.A., **Joazeiro, C.A.P.**, Pisano, M., Geiduschek, E.P., Colbert, T., Hahn, S. and Blanco, J. 1992. The role of the TATA-binding protein in the assembly and function of the multisubunit yeast RNA polymerase III transcription factor, TFIIB. Cell 71: 1055-1064
4. Kassavetis, G.A., Bardeleben, C., Braun, B., **Joazeiro, C.A.P.**, Pisano, M. and Geiduschek, E.P. 1994. Transcription by RNA polymerase III, p.107-126. *In*: R.C. Conaway and J.W. Conaway (ed.), Transcription: mechanisms and regulation. Raven Press, New York, NY.
5. **Joazeiro, C.A.P.**, Kassavetis, G.A. and Geiduschek, E.P. 1994. Identical components of yeast transcription factor IIIB are required and sufficient for transcription of TATA box-containing and TATA-less genes. Mol. Cell. Biol. 14: 2798-2808
6. Geiduschek, E.P., Bardeleben, C., **Joazeiro, C.A.P.**, Kassavetis, G.A. and Whitehall, S. 1995. Yeast RNA polymerase III: transcription complexes and RNA synthesis. Braz. J. Med. Biol. Res. 28: 147-159
7. **Joazeiro, C.A.P.**, Kassavetis, G.A. and Geiduschek, E.P. 1996. Alternative outcomes in the assembly of promoter complexes: the roles of TBP and a flexible linker in the assembly of TFIIB on tRNA genes. Genes & Dev. 10: 725-739
8. **Joazeiro, C.A.P.**, Wing, S.S., Huang, H.-k., Levenson, J.D., Hunter, T. and Liu, Y.-C. 1999. The tyrosine kinase negative regulator, c-Cbl, as a RING-type, E2-dependent ubiquitin-protein ligase. Science 286: 309-312
 - *in this work we reported that c-Cbl functions as an E3 ligase. This illuminated c-Cbl's mechanism and led to experiments showing that other RING-domain proteins also function as E3s (e.g., refs. #9-10, 15-17, 19, and 23 below), helping understand their function and greatly expanding their number*
 - *reviewed by Barinaga, M. 1999. A new finger on the protein destruction button. Science 286:223-225*
9. Levenson, J., **Joazeiro, C.A.P.**, Page, A., Huang, H.-k., Hieter, P. and Hunter, T. 2000. The APC11 RING-H2 Finger Mediates E2-dependent Ubiquitination. Mol. Biol. Cell 11: 2315-2325

10. Huang, H.-k, **Joazeiro, C.A.P.**, Bonfoco, E., Kamada, S., Levenson, J.D. and Hunter, T. 2000. The Inhibitor of Apoptosis, cIAP2, Functions as a Ubiquitin-Protein Ligase and Promotes in vitro Ubiquitination of Caspases-3 and -7. J. Biol. Chem. 275:26661-26664
11. **Joazeiro, C.A.P.** and Weissman, A. 2000. RING Finger Proteins: Mediators of Ubiquitin Ligase Activity. Cell 102: 549-552
12. Friedrichsen, D., **Joazeiro, C.A.P.**, Li, J., Hunter, T. and Chory, J. 2000. Brassinosteroid-Insensitive-1 is a Ubiquitously Expressed Leucine-Rich Repeat Receptor Serine/Threonine Kinase. Plant Phys. 123: 1247-56
13. **Joazeiro, C.A.P.** and Hunter, T. 2000. Ubiquitination: More than Two to Tango. Science 289:2061-2062
14. Qiu, L., **Joazeiro, C.A.P.**, Fang, N., Wang, H., Elly, C., Altman, Y., Fang, D., Hunter, T. and Liu, Y.-C. 2000. Recognition and Ubiquitination of Notch by Itch, a Hect-type E3 ubiquitin ligase. J. Biol. Chem. 275:35734-35737
15. Bays, N., Gardner, R., Seelig, L., **Joazeiro, C.A.P.** and Hampton, R. 2001. Hrd1p/Der3p is a membrane-anchored ubiquitin ligase required for ER-associated degradation. Nature Cell Biology 3:24-29
16. Ruffner, H., **Joazeiro, C.A.P.**, Hemmati, D., Hunter, T. and Verma, I. 2001. Cancer-predisposing mutations within the RING domain of BRCA1: Loss of ubiquitin protein ligase activity and protection from radiation hypersensitivity. Proc. Natl. Acad. Sci. USA 98: 5134-5139
17. Rankin, C., **Joazeiro, C.A.**, Floor, E. and Hunter, T. 2001. E3 ubiquitin-protein ligase activity of Parkin is dependent on cooperative interaction of ring finger (triad) elements. J. Biomed. Sci. 8(5):421-429
18. Fang, D., Elly, C., Gao, B., Fang, N., Altman, Y., **Joazeiro, C.**, Hunter, T., Copeland, N., Jenkins, N. and Liu, Y.-C. 2002. Dysregulation of T lymphocyte function in itchy mice: a role for Itch in TH2 differentiation. Nature Immunol. 3(3):281-287
19. Lu, Z., Xu, S., **Joazeiro, C.**, Cobb, M.H. and Hunter, T. 2002. The PHD Domain of MEK1 Acts as an E3 Ubiquitin Ligase and Mediates Ubiquitination and Degradation of ERK1/2. Mol. Cell 9:945-956
 - *see comment on Nat Rev Mol Cell Biol.* 2002 3:473
20. Verdecia, M.A., **Joazeiro, C.A.P.**, Wells, N.J., Ferrer, J., Bowman, M.E., Hunter, T. and Noel, J.P. 2003. Conformational Flexibility Underlies Ubiquitin Ligation Mediated by the WWP1 HECT Domain E3 Ligase. Mol. Cell 11: 249-259

21. Donaldson, K., Yin, H., Gekakis, N., Supek, F. and **Joazeiro, C.A.P.** 2003. Ubiquitin signals protein trafficking via interaction with a novel ubiquitin-binding domain in the membrane fusion regulator, Vps9p. *Curr. Biology* 13: 258-262
- *as recently as in 2003, how ubiquitylation mediates functions other than proteasomal degradation was unknown. Utilizing various approaches we and other laboratories discovered ubiquitin-binding motifs such as the PUBH/UIM (ref. #22 below) and CUE (this work), and demonstrated functional roles for their interactions with ubiquitin in processes like endocytosis*
 - *see comment on Di Fiore PP, Polo S, Hofmann K. When ubiquitin meets ubiquitin receptors: a signalling connection. Nat Rev Mol Cell Biol. 2003 4:491-7*
22. Donaldson, K.M., Li, W., Ching, K.A., Batalov, S., Tsai, C.-C. and **Joazeiro, C.A.P.** 2003. Ubiquitin-mediated sequestration of normal cellular proteins into polyglutamine aggregates. *Proc. Natl. Acad. Sci. USA* 100: 8892-8897
23. Takagi, Y., Masuda, C., Chang, W.-H., Komori, H., Wang, D., Hunter, T., **Joazeiro, C.A.P.**[#] and Kornberg, R.D.[#] 2005. Ubiquitin Ligase Activity of Transcription Factor IIH and the Transcriptional Response to DNA Damage. *Mol. Cell* 18: 237-243.
- [#]*co-senior authors*
- *see News and Views article about this work, Nature Cell Biol. 2005, 7: 553-555*
24. Li, W., Chanda, S., Micik, I. and **Joazeiro, C.A.P.** 2005. Methods for the functional genomic analysis of ubiquitin ligases. *Methods in Enzymology*, 398:280-291
25. [Sierra, J., Yoshida, T., Joazeiro, C.A.P. and Jones, K.A. 2006. The APC tumor suppressor counteracts beta-catenin activation and H3K4 methylation at Wnt target genes. *Genes & Dev.*, 20:586-600](#)
26. [Zhang, Q., Liu, Y., Gao, F., Ding, Q., Cho, C., Hur, W.-Y., Jin, Y., Uno, T., Joazeiro, C.A.P. and Gray, N. 2006. Discovery of EGFR-Selective 4,6-Disubstituted Pyrimidines from a Combinatorial Kinase-Directed Heterocycle Library. *J. Am. Chem. Soc.*, 128:2182-2183](#)
27. **Joazeiro, C.A.P.**, Anderson, K.C. and Hunter, T. 2006. Proteasome inhibitor drugs on the rise. *Cancer Res.* 66:7840-7842
28. Li, W., Bengtson, M., Ulbrich, A., Matsuda, A., Orth, A., Chanda, S., Batalov, S. and **Joazeiro, C.A.P.** 2008. Genome-wide and Functional Annotation of Human E3 Ubiquitin Ligases Identifies MULAN, a Mitochondrial E3 that Regulates the Organelle's Dynamics and Signaling. *PLoS ONE*. 3:e1487
- *the bioinformatics annotation presented in this work provided the first inventory of human E3 ligases. Our group and others have subsequently utilized this information for generating tools to interrogate E3 function at a genome-wide level; with those tools we discovered MULAN, one of the only two known mitochondrial-anchored E3s*

29. Deshaies, R.J. and **Joazeiro, C.A.P.** 2009. RING Domain E3 Ubiquitin Ligases. Ann. Rev. Biochem. vol. 78: 399-434
30. Chu, J., Hong, N., Masuda, C., Jenkins, B., Nelms, K., Goodnow, C., Glynne, R., Wu, H., Maslah, E., **Joazeiro, C.A.P.** and Kay, S.A. 2009. A mouse forward genetics screen identifies LISTERIN as an E3 ubiquitin ligase involved in neurodegeneration. Proc. Natl. Acad. Sci. USA 106: 2097-2103
- *this work reports the discovery of Listerin/Ltn1, an E3 whose mutation causes neurodegeneration in mice*
31. Bengtson, M.H. and **Joazeiro, C.A.P.** 2010. Role of a ribosome-associated E3 ubiquitin ligase in protein quality control. Nature 467:470-473
- *this work reports that the yeast homolog of Listerin/Ltn1 functions in mediating degradation of the products of aberrant mRNA lacking stop codons. These findings defined a novel pathway of protein quality control and led Ltn1 into becoming a paradigm for the understanding of co-translational protein quality control*
32. Mitne-Neto, M., Machado-Costa, M., Marchetto, M.C., Bengtson, M.H., **Joazeiro, C.A.P.**, Tsuda, H., Bellen, H.J., Silva, H.C., Oliveira, A.S., Lazar, M., Muotri, A.R., and Zatz, M. 2011. Downregulation of VAPB expression in motor neurons derived from induced pluripotent stem-cells of ALS8 patients. Human Molecular Genetics 20:3642-3652
33. Lyumkis, D., Doamekpor, S.K., Bengtson, M.H., Lee, J.-W., Toro, T., Petroski, M.D., Lima, C.D., Potter, C.S., Carragher, B., and **Joazeiro, C.A.P.** 2013. Single-Particle Electron Microscopy Reveals Extensive Conformational Variability of the Ltn1 E3 Ligase. Proc. Natl. Acad. Sci. USA 110:1702-1707.
- *this work reports the ~40Å-resolution structure of the ~180-kDa E3 ligase Listerin/Ltn1 solved by electron microscopy. It describes a new set of structural analysis techniques at the forefront of EM that can be applied to other systems, provides insights into the function of Ltn1, and sets the ground for solving the structure of Ltn1 in complex with translationally-stalled ribosomes*
34. Ossareh-Nazari, B., Niño, C.A., Bengtson, M.H., Lee, J.-W., **Joazeiro, C.A.P.** and Dargemont, C. 2014. Ubiquitylation by the Ltn1 E3 ligase protects 60S ribosomes from starvation-induced selective autophagy. J. Cell Biol. 204:909-919
35. Lyumkis, D., dos Passos, D.O., Tahara, E., Bennett, E., Vinterbo, S., Potter, C.S., Carragher, B. and **Joazeiro, C.A.P.** 2014. Structural Basis for Translational Surveillance by the Large Ribosomal Subunit-Associated Protein Quality Control Complex. Proc. Natl. Acad. Sci. USA 111:15981-6
- *this work reports the cryo-EM structure of the RQC complex, revealing how a stalled nascent chain-tRNA conjugate is recognized by the Tae2 subunit, and is targeted for ubiquitination by the Ltn1 subunit.*
 - *featured under "Research Highlights." Nat. Rev. Mol. Cell Biol. 2014, 15:767*

36. Satoh, T., Sumiyoshi, A., Yagi-Utsumi, M., Sakata, E., Sasakawa, H., Kurimoto, E., Yamaguchi, Y., Li, W., **Joazeiro, C.A.P.**, Hirokawa, T. and Kato, K. 2014. Mode of substrate recognition by the Josephin domain of ataxin-3, which has an endo-type deubiquitinase activity. FEBS Lett. 588:4422-4430
37. Yonashiro, R., Tahara, E.B., Bengtson, M.H., Khokhrina, M., Lorenz, H., Chen, K.-C., Kigoshi-Tansho, Y., Savas, J.N., Yates III, J.R., Kay, S.A., Craig, E.A., Mogk, A., Bukau, B., and **Joazeiro, C.A.P.** 2016. The Rqc2/Tae2 subunit of the Ribosome-Associated Quality Control complex marks ribosome-stalled nascent polypeptide chains for aggregation. eLife 5:e11794
38. Doamekpor, S.K., Lee, J.-W., Hepowit, N.L., Wu, C., Charenton, C., Leonard, M., Bengtson, M.H., Rajashankar, K., Sachs, M.S., Lima, C.D. and **Joazeiro, C.A.P.** 2016. Structure and Function of the Yeast Listerin (Ltn1) Conserved N-Terminal Domain in Binding to Stalled 60S Ribosomal Subunits. Proc. Natl. Acad. Sci. USA, 113:E4151-60
39. **Joazeiro, C.A.P.** 2017. Ribosomal Stalling During Translation: Providing Substrates for Ribosome-Associated Protein Quality Control. Annu. Rev. Cell Dev. Biol., 33:343-368.
40. **Joazeiro, C.A.P.** 2017. Ribosome-Associated Protein Quality Control (RQC). Nat. Rev. Mol. Cell Biol., *in press*

BOOK CHAPTER

Joazeiro, C.A.P. and Hunter, T. 2009. Ring Finger Proteins as E3 Ubiquitin Ligases. *In*: R. Pasqualini and W. Arap (ed.), Protein Discovery Technologies, p.203-213. CRC Press, Boca Raton, FL

PATENTS

Joazeiro, C.A.P., U.S. Patent #20040171085 of 09/02/04, "Methods and Compositions for Treating Neurodegenerative Diseases."

MEETING ORGANIZATION

Evidence of leadership in proposing and organizing conferences to bring together scientists working on ubiquitin and scientists working on other fields as new mechanisms involving ubiquitin were beginning to emerge in those fields. These include, e.g., ubiquitin meetings aimed at stimulating progress in the fields of signal transduction and drug discovery.

1. **2nd International Symposium on Social Responsibility and Tropical Diseases.** Organizer of the scientific program. Sao Paulo, Brazil, March 12, 2004
2. **Keystone meeting “Ubiquitin and Signaling.”** T. Hunter, M. Hochstrasser and C.A.P. Joazeiro, co-organizers. Taos, NM, February 22-27, 2005
3. **American Association for Cancer Research (AACR) meeting “Ubiquitin and Cancer: From Molecular Targets and Mechanisms to the Clinic.”** T. Hunter, K. Anderson and C.A.P. Joazeiro, co-organizers. Orlando, FL, January 18-22, 2006
4. **2nd Keystone meeting “Ubiquitin and Signaling.”** B. Schulman, T. Hunter, M. Hochstrasser and C.A.P. Joazeiro, co-organizers. Big Sky, MT, February 4 – 9, 2007
5. **2nd American Association for Cancer Research (AACR) meeting “Ubiquitin and Cancer: From Molecular Targets and Mechanisms to the Clinic.”** T. Hunter, K. Anderson and C.A.P. Joazeiro, co-organizers. San Diego, CA, January 22 – 25, 2008
6. **The 2009 San Diego Ubiquitin Meeting.** C.A.P. Joazeiro, Z. Ronai, T. Hunter, G. Patrick and K. Finley, co-organizers. San Diego, CA, January 17, 2009
7. **International Chemical Congress of Pacific Basin Societies, Symposium on “Frontiers in Ubiquitin Research: Structures, Mechanisms, Biology and Drug Development.”** C.A.P. Joazeiro and K. Kato, co-organizers. Honolulu, HI, December 18 - 20, 2010
8. **Cavendish Global Health Impact Forum.** C.A.P. Joazeiro, co-organizer (TSRI portion of the program). San Diego, CA, May 10-14, 2015

CONFERENCE SCIENTIFIC ADVISORY BOARD (SAB) MEMBERSHIP

IBC’s 4th Annual Protein Kinases and Phosphatases meeting. Chairperson and SAB member. San Diego, CA, March 21-24, 2004

Strategic Research Institute’s 2nd Bi-Annual meeting, “Targeting Ubiquitin for Drug Discovery and Development.” SAB member. Philadelphia, PA, June 26-27, 2006

Strategic Research Institute's "12th Annual Pharma & Biotech Licensing & Deal-Making Summit." SAB member. San Diego, CA, December 10-11, 2007

Keystone Symposia Advisory Committee for scientific meetings in South America, March 2015-present

MEETING CHAIRMANSHIP

51st Annual Meeting of the American Society for Cell Biology, Mini-Symposium on "Cellular Functions of Ubiquitin and Ub-related Proteins." C.A.P. Joazeiro and F. Melchior, co-Session Chairs. Denver, CO, December 3 - 7, 2011

Cold Spring Harbor "Ubiquitin Family" meeting. Session Chair. May 14-18, 2013

EMBO Conference "Ubiquitin and Ubiquitin-like Proteins: from structure to function." Riva del Garda, Italy. Session Chair. October 1-5, 2013

EMBO Conference "Ubiquitin and Ubiquitin-like Proteins: from molecular mechanisms to human diseases." Cavtat/Dubrovnik, Croatia. Invited Session Chair. September 18-22, 2015 (had to cancel participation)

ASBMB Annual Meeting. "Protein Degradation in Health and Disease" Session Chair. San Diego, CA, April 6, 2016

INVITED SPEAKER (INSTITUTIONS)

St. Louis University School of Medicine, St. Louis, MO, October 23, 2002

Graduate School of Pharmaceutical Sciences, Nagoya City University, Japan, January 21, 2005

M.D. Anderson Cancer Center, Houston, Texas, April 20, 2005

Telethon Institute of Genetics and Medicine (TIGEM), Naples, Italy, April 9, 2008

UCSD Division of Biomedical Informatics Fall Seminar Series. San Diego, CA, November 12, 2010

Pontifical Catholic University of Rio Grande do Sul, Porto Alegre, RS, Brazil, November 9, 2010

Keynote speaker, Sanford-Burnham Medical Research Institute Graduate School of Biomedical Sciences, Annual Symposium. San Diego, CA, May 16-17, 2012

Heidelberg University, Heidelberg, Germany. September 24, 2012

Frankfurt University, Frankfurt, Germany. September 25, 2012

Friedrich-Miescher Institute, Basel, Switzerland. September 27, 2012

Mount Sinai School of Medicine, New York, NY. December 11, 2012

SDSU Department of Biology, San Diego, CA. February 28, 2013

Purdue University, Center for Cancer Research. Symposium on “Ubiquitination Processes and Their Role in Cancer.” Lafayette, IN, April 19, 2013

Heidelberg University, Heidelberg, Germany. July 15, 2013

New York University (NYU), Pathology Department. New York, NY. September 16, 2013

Stanford Univ., Department of Biology Seminar Series. Palo Alto, CA, November 11, 2013

UCSF, Chemistry and Chemical Biology Program Seminar Series. San Francisco, CA, February 20, 2014

MRC Laboratory of Molecular Biology (LMB). Cambridge, UK, March 31, 2014

The Scripps Research Institute, Florida. Jupiter, FL, August 7, 2014

German Cancer Research Center (DKFZ). Heidelberg, Germany. September 24, 2014

Cytokinetics. San Francisco, CA, January 20, 2015

University of Oxford, Sir William Dunn School of Pathology Departmental seminar series. Oxford, UK, February 20, 2015

Czech Centre for Phenogenomics. Prague, Czech Republic, May 16, 2016

Frankfurt University, Institute of Biochemistry II. Frankfurt, Germany, December 1, 2017

University of Cologne, Cluster of Excellence for Aging Research (CECAD). Cologne, Germany, April 28, 2018

LMU's Graduate School Life Science Munich (LSM), Lecture series, June 28, 2018

INVITED SPEAKER (CONFERENCES)

The American Society for Cell Biology 2002 Ubiquitin Meeting. Colorado Springs, CO, August 11-14, 2002

XVII Annual Meeting of the Brazilian Federation of Experimental Biology Societies. Salvador, Brazil, August 28-31, 2002

XXXI Annual Meeting of the Brazilian Society of Biochemistry and Molecular Biology. Caxambu, Brazil, May 18-21, 2002

IBC Life Science's 3rd International Conference, Protein Kinases & Phosphatases: Advances in Target Selection, Drug Design and Clinical Research. San Diego, CA, March 23-25, 2003

Cold Spring Harbor Laboratory meeting "The Ubiquitin Family." Cold Spring Harbor, NY, April 23rd-27th, 2003

UNESCO-Anvisa-Novartis Seminar series "Pharmacogenetics and Pharmacogenomics." Brasilia, DF, Brazil, June 17, 2004

Featured speaker, Strategic Research Institute's "Targeting the Ubiquitin System for Drug Discovery." Philadelphia, PA, June 21-22, 2004

Joint 59th Harden/EMBO Conference "The Ubiquitin Proteasome System in Health and Disease." Cirencester, U.K., September 6-10, 2004

International Symposium on "Strategies for the acquirement of functional diversity of proteins," Nagahama Institute of Bio-Science and Technology, The National Museum of Emerging Science and Innovation, Tokyo, Japan, January 20, 2005

1st National Biotechnology Seminar, "Routes for Biotechnology," Instituto Polo Avancado da Saude Foundation (FIPASE), Ribeirao Preto, Sao Paulo, Brazil, March 3-4, 2005

Keystone meeting "The Many Faces of Ubiquitin." Copper Mountain, CO, January 11-16, 2009

XXVIII Workshop Temático CAT/Cepid "Perspectives in Systems Biology." Butantan Institute, Sao Paulo, Brazil, November 4, 2010

Keystone meeting "Ubiquitin Signaling." Whistler, British Columbia, Canada, March 18-23, 2012

FASEB Conference "Ubiquitin & Cellular Regulation." Saxtons River, VT, June 24-29, 2012

10th International Cell Biology Congress. Rio de Janeiro, Brazil, July 25-28, 2012

Cold Spring Harbor Laboratory “Ubiquitin Family” meeting. Cold Spring Harbor, NY, May 14-18, 2013

EMBO Conference “Ubiquitin and Ubiquitin-like Proteins: from structure to function.” Riva del Garda, Italy. October 1-5, 2013

Global Technology Community (GTC) Conference “Ubiquitin Research & Drug Discovery.” San Diego, CA, February 20-21, 2014

EMBO Conference “Ubiquitin & ubiquitin-like proteins: At the crossroads from chromatin to protein.” Buenos Aires, Argentina. October 19-24, 2014

Minisymposium on "Ribosome dynamics in regulation of speed and accuracy of translation." Organized by FOR1805 and EU-Konsortium as a satellite meeting preceding the 10th European Biophysics Congress. Dresden, Germany. July 17-18, 2015.

Joint 23rd Congress of the International Union of Biochemistry and Molecular Biology (IUBMB) and XLIV Annual Meeting of the Brazilian Society for Biochemistry and Molecular Biology (SBBq), Foz do Iguaçu, Brazil, August 24-28, 2015 (canceled)

EMBO Conference “Ubiquitin and Ubiquitin-like Proteins: from molecular mechanisms to human diseases.” Cavtat/Dubrovnik, Croatia. September 18-22, 2015 (canceled participation)

American Society for Biochemistry and Molecular Biology (ASBMB) Annual Meeting, symposium on “Protein Synthesis and Degradation.” San Diego, CA. April 2-6, 2016.

Frankfurt Conference on Ubiquitin and Autophagy. Frankfurt, Germany. July 4-7, 2016.

Salk Meeting “Post-translational Regulation of Cell Signaling.” San Diego, CA. August 2-5, 2016.

GTC-Bio, “7th Ubiquitin Research & Drug Discovery Conference.” San Diego, CA. February 8-9, 2016 (canceled participation)

EMBO Conference “Protein Quality Control in Health and Disease,” Sant Feliu de Guixols, Spain. May 14-19, 2017

Gordon Research Conference “Stress Proteins in Growth, Development and Disease.” Sunday River Resort, Maine, USA. July 9-14, 2017.

42nd Congress of the Federation of European Biochemical Societies (FEBS), symposium on “Mechanisms for Protein Homeostasis.” Jerusalem, Israel. September 10-14, 2017.

EMBO Conference “Ubiquitin and SUMO,” Cavtat, Croatia. Sep 15-19, 2017

EMBO Workshop “Proteostasis,” Ericeira, Portugal. November 17-21, 2017

CONFERENCE PRESENTATIONS SELECTED FROM ABSTRACT

EMBO/EMBL Symposium “Quality Control - From Molecules to Organelles.” Heidelberg, Germany, September 19-22, 2012

2nd International FOR-967 Symposium “Functions and Mechanisms of Ribosomal Tunnel Exit Ligands.” Homburg/Saar, Germany, Sept 26, 2012

FASEB Conference “Molecular Mechanisms and Physiological Consequences of Protein Aggregation.” Big Sky, MT. June 23-28, 2013

Cold Spring Harbor Laboratory “Chaperones & Stress Responses” meeting. Cold Spring Harbor, NY, April 29-May 3, 2014

FASEB Conference “Ubiquitin and Cellular Regulation.” Saxtons River, VT, June 15-20, 2014

Gordon Research Conference “Translation Machinery in Health & Disease.” Ventura, CA, February 22-27, 2015

“RNA Metabolism in Neurological Disease.” Chicago, IL, October 15-16, 2015

Cold Spring Harbor Laboratory “Protein Homeostasis in Health & Disease” meeting. Cold Spring Harbor, NY, April 18-22, 2016

TEACHING

Invited Instructor, **EMBO Course “Ubiquitin and SUMO.”** Split, Croatia, September 12-18, 2008

Invited Instructor, **EMBO Course “Ubiquitin and SUMO.”** Split, Croatia, July 29-August 4, 2010

Instructor, **TSRI Cell Biology graduate course**, 2010-2015

Lecturer, Summer School on “Ribosome dynamics in regulation of speed and accuracy of translation.” Erice, Italy. June 29-July 3, 2017

Lecturer, Heidelberg University MCB Master’s Program (Frontiers II, Winter semester; Module 3, Summer semester). Since 2016

Instructor, Heidelberg University MCB Master's Program practical course on Ribosome-Associated Quality Control. Summer semester, since 2017

Lecturer, Heidelberg University MCB Master's Program, Literature discussion class (Module 3). Summer semester, since 2017

Lecturer, Heidelberg University undergraduate Molecular Biology course. Summer semester, since 2017

Instructor, Heidelberg University undergraduate practical course on Methods in Molecular Biology (nucleic acids). Summer semester, from 2018

Lecturer, German-Israeli Helmholtz Research School "Frontiers in Cell Signaling and Gene Regulation" (SignGene). Berlin, September 1-3, 2017

Lecturer, 2nd Istituto FIRC di Oncologia Molecolare (IFOM) "Advanced Lecture Course: Ubiquitin-assisted autophagy, from mechanisms to pathology." Milan, Italy, October 11-13, 2017

OTHER ACTIVITIES

Host Committee member, La Jolla Playhouse "Innovation Night" event 2011

Host Committee member, San Diego Opera Life Science event 2011, 2012, 2013

Various activities aimed at promoting development of the Biotechnology sector in Brazil

SCIENTIFIC CONSULTANT WORK

Ono Pharma, 2012

Dainippon Sumitomo Pharma Co, 2014

Cytokinetics, 2015