

## James R. Jabbur, Ph.D. Curriculum Vitae

**Name:** Dr. James R. Jabbur

**Office:** Northeast College, 8001 Fulton, Houston, Texas 77022, Suite 321

**Phone:** 713-718-2433

**Email:** james.jabbur@hccs.edu

### Education

Post-Doctoral Research Fellow, Research Associate Analytical Protein Chemistry, University of Texas M.D. Anderson Cancer Center Proteomics Core Facility, Houston, Texas, 2003

Doctorate of Philosophy Molecular and Cellular Oncology, University of Texas Health Science Center and M.D. Anderson Cancer Center Genomics Core Facility, Houston, Texas 2001

Baccalaureate of Letters and Science Bacteriology (Microbiology), University of Wisconsin, Madison, Wisconsin, 1991

### Teaching Experience

Full Membership, Faculty, 2015 – Present; Adjunct Membership, Faculty, 2010 – 2015

Houston Community College (HCC) Northeast College: Biology & Physical Sciences, Learning Emporium

Courses: General Biology, Anatomy and Physiology, Genetics, Test for Essential Academic Skills

Preparatory, Biomedical Research, Tutoring

Committee Membership: (Curriculum) Biology *Program*; Genetics, Biology, Anatomy and Physiology; Faculty Hiring

Adjunct Membership, Faculty, 2014 – 2015

San Jacinto College District (SJC) Central and South Colleges: Biological and Agricultural Sciences

Courses: General Biology, Microbiology

Premier Teaching and Tutoring Faculty Membership, Faculty Master Trainer, 2009 – 2016

The Princeton Review: Houston metro (teacher and tutor), Interational (faculty trainer)

Courses: *Hyperlearning* MCAT and DAT preparatory

Instructor, 1993 – 1995

Seton Hall University: Biological Sciences

Course: Molecular Biology Laboratory

### Professional Experience and Credentials

USDOEd, HSI STEM Articulation Program, HCC/UST/BCOM research collaboration mentor (Matthew Hamilton, Chris Anderson, Jason Ettinger, Chaz Burtleson, Feven Behre, Zam Zam Abbas, Christian Le, Spencer Anderson, Paloma Luna, Phung Tran, Jianyi Hou, Eric Castle, Yicenia Aviles), 2012 – 2016.

ASBMB EB 2016 Conference, Undergraduate Student Research Poster - 1<sup>st</sup> Place

ASM ABRCMS Conference 2015, Undergraduate Student Research Poster - *Certificate of Appreciation*

HCC STEM 2015 Symposium, Student Research Oral Presentation – 1<sup>st</sup> Place

ASM ABRCMS Conference 2014, Undergraduate Student Research Poster - *Certificate of Appreciation*

HCC STEM 2014 “Comes Alive” Symposium, Student Research Poster – 3<sup>rd</sup> Place

ASM ABRCMS Conference 2013, Undergraduate Student Research Poster - *Certificate of Appreciation*

ASBMB EB 2013 Conference, Undergraduate Student Research Poster - 2<sup>nd</sup> Place

HCC Foundation, ASPIRE Award (Asian Scholarship Program Inspiring Results and Excellence), 2015

HCC Center for Teaching and Learning Excellence. Instructional Design Symposiums: creating and implementing active and collaborative teaching strategies. Power of Choice Conference: instructional

techniques for imparting creative thinking, innovation, initiative and problem solving skills in subject module-specific development. Adjunct Academy: instruction in learner-centered and community-oriented educational pedagogy (presentation made), 2013-2016

QEP Stipend, HCCS INSPIRE Faculty, Learning Module implementation and development 2013 – 2015

HCC Chancellor's Innovation Fund Award, Learning Community Program faculty development, 2012

NSF/Cold Spring Harbor Laboratory, iPlant Collaborative Wiki Genomics in Education Workshop (bioinformatics with DNA Subway), 2012

Chinese Journal of Cancer, Landes Biosciences Publishing, Manuscript Copy-Editor and Webpage Consultant (Senior Associate Editor, Wei Zhang, Ph.D.), Houston, Texas, 2010 – 2015.

The Princeton Review, InterActiveCorp, MCAT and DAT Premier Faculty, Master Trainer, Operational Assistant, Teaching and Tutoring programs, 2009 – 2016

eAuction Depot, Internet Merchant (proprietor), Houston (metro), Texas, 2004 – 2009.

University of Texas M.D. Anderson Cancer Center, Department of Molecular Pathology, Research Associate and Post-Doctoral Fellow, Member of Academic and Hospital Staff (Ryuji Kobayashi, Ph.D.), Houston, Texas, 2001 – 2003

University of Texas M.D. Anderson Cancer Center, Departments of Neuro-Oncology, Molecular Genetics and Pathology, Pre-Doctoral Fellow, Member of Academic and Hospital Staff (Wei Zhang, Ph.D.; Guillermina Lozano, Ph.D. - rotational student), Houston, Texas, 1995 – 2001

University of Texas MD Anderson Cancer Center AMGEN Award (1<sup>st</sup> place) in Basic Science Research  
University of Texas Health Science Center at Houston Graduate Student Project Award (1<sup>st</sup> place)  
University of Texas M.D. Anderson Cancer Center Trainee Research Day Poster Award (1<sup>st</sup> place)  
American Legion Auxiliary Cancer Research Fellow (3 years)  
Salk Institute of Biomedical Sciences Traveling Scholar Award  
AFLAC - American Association of Cancer Research Traveling Scholar Award  
NIH (National Cancer Institute), Pre-Doctoral and Post-Doctoral Fellowships (full term of enrollment)

Seton Hall University, Department of Biology, Laboratory Manager (Peter T. Guidon, Ph.D.), South Orange, New Jersey, 1993 – 1995

University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Laboratory Manager and Research Technician (Anthony J. Garro, Ph.D.), Newark, New Jersey, 1992 – 1993

Mount Sinai College of Medicine, Laboratory Manager and Research Technician (Anthony J. Garro, Ph.D.), New York, New York, 1991 – 1992

University of Wisconsin, Undergraduate Research Scholar and Laboratory Technician (Jorge Escalante-Semerana, Ph.D.), Madison, Wisconsin, 1989 – 1991

### **Presentations and Publications**

\***Castle, E.**, Zaibaq, P., Pham, Q., Vu, K., Fahmy, N., Guirette, M., Ruff, A., **Alives, Y.**, **Hou, J.**, Jain, R., Jabbur, J., Ribes-Zamora, A. DNA Repair Proteins XLF and XRCC4 Interact with Telomeric Proteins TRF1 and RAP1. Undergraduate Research Symposium, UST/HCC HSI-STEM Scholars and Articulation Program. UST Campus, Houston, 2016.

\***Castle, E.**, Zaibaq, P., Pham, Q., Vu, K., Fahmy, N., Guirette, M., Ruff, A., **Alives, Y.**, **Hou, J.**, Jain, R., Jabbur, J., Ribes-Zamora, A. XLF and XRCC4 Interact with Telomeric Proteins. Undergraduate Student

Research Poster Competition and Professional Development Workshop, Experimental Biology Conference, American Society for Biochemistry and Molecular Biology. San Diego, 2016.

**\*Castle, E.,** Zaibaq, P., Pham, Q., Vu, K., Fahmy, N., Guirette, M., Ruff, A., **Alives, Y., Hou, J.,** Jain, R., Jabbur, J., Ribes-Zamora, A. XLF and XRCC4 Interact with Telomeric Proteins. STEM Student Research Poster Competition, Annual Biomedical Research Conference for Minority Students, American Society for Microbiology. Seattle, 2015.

**\*Hou, J., \*Alives, Y., Castle, E.A.,** Jain, R., Jabbur, J. Ribes-Zamora, A. XLF and XRCC4 Telomeric Localization. STEM Research Symposium, HCC Central Science Club, UST/HCC HSI-STEM Scholars and Articulation Program. Oral Presentation. HCC Central Campus, Houston, 2015.

**\*Castle, E.A., \*Hou, J., \*Alives, Y.,** Nunez, T., Bui, D., Baidon, M., Jain, R., Jabbur, J., Ribes-Zamora, A. XLF and XRCC4 Interact with Telomeric Proteins. STEM Research Symposium, UST/HCC HSI-STEM Scholars and Articulation Program. HCC West Loop Center, Houston, 2015.

\*Baidon, M., Anderson, C., Nunez, T., Bui, D., **Anderson, S. Tran, P., Luna, P.,** Jain, R., Jabbur, J., Ribes-Zamora, A. XRCC4 and XLF interacts with telomeric protein RAP1. STEM Student Research Poster Competition, Annual Biomedical Research Conference for Minority Students, American Society for Microbiology. San Antonio, 2014.

**\*Anderson, S., Tran, P., Luna, P.,** Anderson, C., Baidon, M., Nunez, T., Bui, D., Jain, R., Jabbur, J., Ribes-Zamora, A. XLF and XRCC4 Interact with Telomeric Proteins. STEM Research Symposium, HCC Central Science Club, UST/HCC HSI-STEM Scholars and Articulation Program. HCC Central Campus, Houston, 2014.

**\*Anderson, S., Tran, P., Luna, P.,** Anderson, C., Baidon, M., Nunez, T., Bui, D., Jain, R., Jabbur, J., Ribes-Zamora, A. XLF and XRCC4 Interact with Telomeric Proteins. STEM Research Symposium, UST/HCC HSI-STEM Scholars and Articulation Program. UST Campus, Houston, 2014.

\*Nunez, T., Bui, D., Baidon, M., Anderson, C., Alsina, K., **Le, T., Abbas, A., Behe, F.,** Jain, R., Jabbur, J., Sen, P. and Ribes-Zamora, A. XLF and XRCC4 Interact with Telomeric Proteins. Undergraduate Research Symposium, UST/HCC HSI-STEM Scholars and Articulation Program. UST Campus, Houston, 2014.

Anderson, C., Baidon, M., **\*Anderson, S., \*Tran, P., \*Luna, P.,** Jain, R., Jabbur, J., Ribes-Zamora, A. XLF and XRCC4 Interact with Telomeric Proteins. STEM Research Symposium, UST/HCC HSI-STEM Scholars and Articulation Program. HCC West Loop Center, Houston, 2014.

Alsina, K.M., Nunez, T., **Abbas, Z., Behre, F.B., Le, T., Sen, P.,** Jain, R., Jabbur, J.R. and Ribes-Zamora, A. TRF1 interacts with XRCC4 and XLF at telomeres. 2013. *The FASEB Journal* 27, 758.7.

**\*Anderson, C.,** Ribes-Zamora, A., Alsina, K., Nunez, T., Rubin, M. Tobin, D. Weaver, K., **Le, T., Abbas, A., Behre, F.,** Jain, R., Jabbur, J. and Sen, P. XLF and XRCC4 Interact with Telomeric Proteins at Chromosome Ends. STEM Student Research Poster Competition, Annual Biomedical Research Conference for Minority Students, American Society for Microbiology. Nashville, 2013.

Alsina, K., Nunez, T., **Anderson, C., \*Le, T., Abbas, A., Behre, F.,** Jain, R., Jabbur, J., Sen, P., and Ribes-Zamora, A. XLF and XRCC4 Interact with Telomeric Proteins at Chromosome Ends. STEM

Research Symposium, HCC Central Science Club, UST/HCC HSI-STEM Scholars and Articulation Program. HCC Central Campus, Houston, 2013.

Alsina, K., \*Nunez, T., **Anderson, C.**, \***Le, T.**, **Abbas, A.**, **Behre, F.**, Jain, R., Jabbur, J., Sen, P., and Ribes-Zamora, A. XLF and XRCC4 Interact with Telomeric Proteins at Chromosome Ends. Undergraduate Research Symposium, UST/HCC HSI-STEM Scholars and Articulation Program. HCC-NW Spring Branch Campus, Houston, 2013.

\*Alsina, K., Nunez, T., **Anderson, C.**, **Le, T.**, **Abbas, A.**, **Behre, F.**, Jain, R., Jabbur, J., Sen, P., and Ribes-Zamora, A. XLF and XRCC4 Interact with Telomeric Proteins at Chromosome Ends. Undergraduate Student Research Poster Competition and Professional Development Workshop, Experimental Biology Conference, American Society for Biochemistry and Molecular Biology. Boston, 2013.

\***Ettinger, J.**, \***Anderson, C.**, \*Holcombe, H., \*Privett, M., \*Abbas, A.Z., \*Abebe, N.B., Rodriguez-Gonzalez, L., Mohammed, R., Tobin, D., Weaver, K., Jabbur, J., Sen, P., Jain, R., and Ribes-Zamora, A. Identifying Amino Acids of the XRCC4 Protein Required for its Localization to Telomeres. STEM Research Symposium, HCC Central Science Club, UST/HCC HSI-STEM Scholars and Articulation Program. HCC Central Campus, Houston, 2012.

**Ettinger, J.**, **Anderson, C.**, Holcombe, H., Privett, M., Abbas, A.Z., Abebe, N.B., Rodriguez-Gonzalez, L., Mohammed, R., \*Tobin, D., \*Weaver, K., Jabbur, J., Sen, P., Jain, R., and Ribes-Zamora, A. Identifying Amino Acids of the XRCC4 Protein Required for its Localization to Telomeres. Undergraduate Research Symposium, UST/HCC HSI-STEM Scholars and Articulation Program. UST Campus, Houston, 2012.

**Jabbur, J.R.** Review of Physical and Biological Science for the Test for Essential Academic Skills. Houston Community College System (<http://learning.hccs.edu/faculty/james.jabbur/teas-bootcamp>). 2011. 172 slides.

**Jabbur, J.R.** Lecture Accompaniment for iGenetics (3<sup>rd</sup> ed). Houston Community College System (<http://learning.hccs.edu/faculty/james.jabbur/biol2416/chapter-1>). 2011. 22 Chapters.

**Jabbur, J.R.** General Biology I – A Hands on Experience (Learning Community Curriculum Supplement). Houston Community College System (<http://learning.hccs.edu/faculty/james.jabbur/biology-english-learning-community>). 2011. 25 pages.

**Jabbur, J.R.** Biotechnical Applications and Theoretical Considerations. Houston Community College System (<http://learning.hccs.edu/faculty/james.jabbur/biotechnical-applications-and-theoretical-considerations>). 2011. 137 pages.

**Jabbur, J.R.** Review of Biology. Houston Community College System (<http://learning.hccs.edu/faculty/james.jabbur/supplemental-review-for-lecture-material>). 2011. 63 pages.

**Jabbur, J.R.**, Tabor, A.D., Cheng, X., Wang, H., Uesugi, M., Lozano, G. and Zhang, W. 2002. Mdm-2 Binding and TAF<sub>II</sub>31 Recruitment is Regulated by Hydrogen Bond Disruption between the p53 Residues Threonine 18 and Aspartate 21. *Oncogene* 21, 7100 – 7113.

**Jabbur, J.R.** and Zhang, W. 2002. p53 Antiproliferative Function is Enhanced by Aspartate Substitution at Threonine 18 and Serine 20. *Cancer Biol. Ther.* 1, 277 – 283.

**Jabbur, J.R.**, Huang, P. and Zhang, W. 2001. Enhancement of the Antiproliferative Function of p53 by Phosphorylation at Serine 20: an Inference from Site-Directed Mutagenesis Studies. *Int. J. Mol. Med.* 7, 163-168.

**Jabbur, J.R.**, Tabor, A.D., Cheng, X., Wang, H., Uesugi, M., Lozano, G. and Zhang, W. Phosphorylation of p53 at Threonine 18 Alters Hydrogen Bonding Affecting Mdm-2 Binding and TAF<sub>II</sub>31 recruitment. Oral Presentation, University of Texas – MD Anderson Cancer Center Trainee Recognition Day and Research Exposition. Houston, 2001.

**Jabbur, J.R.**, Tabor, A.D., Wang, H., Uesugi, M. and Zhang, W. Radiation Induced Phosphorylation at Threonine 18 Enhances p53 Transactivation Function by Modulating the Interaction with Mdm-2 and TAF<sub>II</sub>31. University of Texas at Houston Graduate Student Poster Session. Houston, 2000.

**Jabbur, J.R.** and Zhang, W. DNA Damage Induced Phosphorylation of p53 at Threonine 18 Attenuates the Interaction of p53 with Mdm-2 and enhances the Transactivation Function of p53. Oral Presentation, Salk Institute for Biological Studies Meeting on Oncogenes. La Jolla, 2000.

**Jabbur, J.R.**, Huang, P. and Zhang, W. Enhancement of p53 Transactivation Activity by Inducible Phosphorylation at Serine 20. University of Texas – MD Anderson Cancer Center Symposia on Cancer Research. Houston, 2000.

**Jabbur, J.R.**, Huang, P. and Zhang, W. 2000. DNA Damage-Induced Phosphorylation of p53 at Serine 20 Correlates with p21 and Mdm-2 Induction *in vivo*. *Oncogene* 19, 6203 – 6209.

**Jabbur, J.R.**, Huang, P., and Zhang, W. IR Activates the Antiproliferative Function of p53 by Inducible Phosphorylation at Serine 20. Oral Presentation, American Association for Cancer Research. Philadelphia, 1999.

Rhee, C.H., Hess, K., **Jabbur, J.R.**, Ruiz, M., Yang, Y., Chen, S., Chenchik, A., Fuller, G.N. and Zhang, W. 1999. cDNA Expression Array Reveals Heterogeneous Gene Expression Profiles in three Glioblastoma Cell Lines. *Oncogene* 18, 2711 – 2707.

Kobayashi, T., Ruan, S.-B., **Jabbur, J.R.**, Consoli, U., Clodi, K., Shiku, H., Owen-Schaub, L., Andreeff, M., Reed, J.C. and Zhang, W. 1998. Differential p53 Phosphorylation and Activation of Apoptosis-Promoting Genes *Bax* and *Fas/Apo-1* by Radiation and Ara-C Treatment. *Cell Death and Differ.* 5, 584 – 591.

**Jabbur, J.R.** An Introductory Laboratory Course in Molecular Biology. Seton Hall University Press. 1993. 174 pages.

**Jabbur, J.R.**, Garro, A.J., Espina, N., Becker, K. and McBeth, D. Alcohol Consumption and DNA Methylation: Implications for FAS and Increased Cancer Risk. IN: Methionine Metabolism, Molecular Mechanisms and Clinical Implications. Mato, J.M., Lieber, C., Kaplowitz, N. and Cabellero, N. (eds.). Consejo Superior de Investigaciones Cientificas. Madrid, 1992.