

## **Cesar M. Compadre, Ph. D.**

Department of Pharmaceutical Sciences,  
University of Arkansas for Medical Sciences  
4301 W. Markham, 522-3  
[compadrecesarm@uams.edu](mailto:compadrecesarm@uams.edu)  
(501) 686-6493 (phone)  
(501) 686-6057 (fax)  
(501) 993-4972 (cell)

Dr. Compadre has extensive research experience on the development of bioactive compounds from natural sources and on the use of molecular modeling in drug design and structure-activity studies. Dr. Compadre has over 150 publications and patents related to the development of bioactive compounds, including an FDA approved antimicrobial technology. Dr. Compadre has a BSP Pharm degree, and obtained his Ph.D. degree in medicinal chemistry and pharmacognosy, from the University of Illinois at Chicago. He conducted postdoctoral research on structure-activity relationships studies using molecular modeling at the University of Illinois and at Pomona College working with Professor Corwin Hansch. Additionally, he had a sabbatical experience at NASA Ames Research Center in computer modeling. At the University of Arkansas for Medical Sciences he directs the Laboratory for the Study of Medicinal Plants and also directs the molecular modeling facility. He has extensive research collaborations with many scientists locally, nationally and internationally.

### **EDUCATION**

Ph.D., University of Illinois at Chicago, Chicago, Illinois, 1985.

M.S., National University of Mexico, Mexico City, Mexico, 1980.

B.S. (Pharmacy), National University of Mexico, Mexico City, Mexico, 1977.

### **WORK EXPERIENCE**

Founder and Managing Partner, Tocol Pharmaceuticals, LLC	2015-
Professor, University of Arkansas for Medical Sciences	2009-
Founding Faculty, Clinton School of Public Service University of Arkansas	2004-2006
Associate Professor, University of Arkansas for Medical Sciences	1993- 2008
Visiting Scholar, NASA Ames Research Center, Bioinformatics Center, NASA	1998-1999
Assistant Professor, University of Arkansas for Medical Sciences	1988-1993

Research Associate (Corwin Hansch), 1986-1988  
Chemistry Department, Pomona College

Research Associate (John Pezzuto) 1985-1986  
Department of Pharmacology, College of Medicine  
and Program for Collaborative Research in the Pharmaceutical

### **RESEARCH INTERESTS**

Bioactive Natural Products, Molecular Modeling, and Ethnopharmacology Field Research

### **HONORS AND AWARDS**

Elected Chair of the Board of Directors of the Arkansas Science and Technology Authority  
2014

Elected Chair Elect, MCBIOS, 2014

Appointed to the Editorial Board of the Journal of Developing Drugs, 2013

Received a Honorary Professorship Chair at the University of Loja (UTPL) Ecuador 2010

Appointed to the Board of Directors of the Arkansas Science and Technology Authority, 2008-2015

Finalist for the 2008 Robert Wood Johnson Foundation Community Health Leaders Award

Received the Bishop Andrew McDonnell, 2006 Workers Justice Award

Received FDA approval for the use an antimicrobial technology to be used in food processing  
(2004)

Received Robert Sarver Memorial Award 2004, Little Rock School District

Received the Arkansas Governor's 2003 Community Service Award

Nominated "Arkansan of the Year" Arkansas Times 2004

Received the 2003 "Martin Luther King Jr. Community Service Award"

Selected as one of the "Best Doctors in Little Rock" Little Rock Magazine, January 2003

Appointed Arkansas Minority Health Commissioner, June 2000- January 2003

NASA-ASEE Stanford Faculty Fellowship in 1998 and 1999

"UAMS Biotechnology Award", June 1997

"Friend of Chemistry Award", from the University of Arkansas at Little Rock, June 1995.

"Inventor of the Year Award", from the UAMS Biotechnology Center, November 1995.

Cited in Who's Who in Science and Engineering, 1993 –

"See ME, Digitize Me, Study Me, Heal Me", cover Story Published on the UAMS Update Magazine,  
August 1995.

"Curing migraines", feature article in the Arkansas Times, September 13, 1996.

Received the 1989 Mr. and Mrs. Willard Walker Research Award, from UAMS Foundation Fund Board.

Featured in the 1987 Encyclopedia Britannica, Yearbook, Science and the future, for his contribution in Applied and Organic Chemistry.

## **TEACHING**

2010 - Developed and coordinated the Pharmacognosy and Complementary and Alternative Medicine course. This course was taught for the first time starting in August 2010. A strong effort is being made to continuously adapt this course to serve the needs of the Pharm. D. students, and practitioners.

2006 -Present. Developed and coordinated the College of Pharmacy Seminar, has invited over 200 local, national and international speakers

1993-1996. Developed and coordinated the Pharmaceutical Sciences Seminar, Invited over 60 local, national and international speakers.

1996 - 2003. Developed and coordinated the Introduction to Patient Monitoring course. This course was taught for the first time in January 1996. A continuous effort has been made to upgrade and adapt this course to serve the needs of the Pharm. D. students, and practitioners.

1995 - present. Developed and coordinated a graduate course in Molecular Modeling. This hands-on course is unique to the State and has attracted graduate and undergraduate students from the UAMS and UALR programs.

2004 - 2009 Developed and coordinated the Pharmaceutical Biotechnology course. This course was taught for the first time in August 2005. A continuous effort has been made to upgrade and adapt this course to serve the needs of the Pharm. D. students, and practitioners.

1993 – Chaired or co-chaired the committee of 20 M.S. or Ph. D. Students

## **OTHER ACADEMIC ACTIVITIES**

Director of the UAMS Biomedical Visualization Center. Planned, secured funding and developed this center. The center has facilities for molecular modeling, 3D-reconstruction, finite-element analysis, and educational development using high-end computer technology.

Planned and developed the first UAMS Internet site, active since 1994.

Leaded UAMS in the effort to established ARKNET, the computer network connecting the Arkansas institutions of higher education to the Internet, this effort was funded for the first three years by NSF

Leaded UAMS in its effort to joint INTERNET 2, this project was funded by NSF.

Developed a strong Biotechnology transfer expertise, with nine USA patents granted and two pending. These efforts led to development of a product licensed by a commercial interest (Safe Foods Co, to improve food safety. This technology has been approved by FDA to remove microbial contamination from poultry.

Served as Arkansas Minority Health Commissioner. In this capacity worked with the Sate Government and the State Legislature to develop and implement guidelines and legislations to improve the access of minority to health services in Arkansas.

Directed LA CASA project (2001-2009), a community based partnership with the UAMS College of Public Health. This initiative has received funds from the Arkansas Department of Health, the Coalition for Tobacco free Arkansas and the University of Arkansas at Pine Bluff. This partnership had as a mission to facilitate the communication between the Arkansas health providers and the growing Latino population of the state, through research, service, and community development.

## **PATENTS**

### **2016**

Zheng, G., Compadre, C. M., Hauer-Jensen, M., Crooks, P. and Breen, P., The Board Of Trustees Of The University Of Arkansas, The United States Of America and As Represented By The Department Of Veterans Affairs, 2016. *Methods for making tocoflexols and analogues thereof*. U.S. Patent 9,309,547.

Compadre, C.M., Breen, P., Aykin-Burns, N. and Hauer-Jensen, M., Tocol Pharmaceuticals, Llc, 2016. *Use of rice bran oil distillate extract for prevention and mitigation of the effects of radiation*. U.S. Patent Application 15/147,230.

### **2014**

Compadre, C.M., Ordonez, P.E., Guzman, M.L., Jones, D.E., Malagon, O., Vidari, G. and Crooks, P., Cesar M. Compadre, The Board Of Trustees Of The University Of Arkansas, Universdad Tecnica Particular De Loja and Cornell University, 2014. *Dehydroleucodine derivatives and uses thereof*. U.S. Patent Application 14/903,545.

Cassandra L. Quave, Mark S. Smeltzer, Cesar M. Compadre, and Howard Hendrickson., *Anti-Biofilm Compositions and Methods for Using*, US 8,741,855. June 3, 2014.

Cesar Compadre, Philip J. Breen, Nukhet Aykin-Burns, Martin Hauer-Jensen, Raul G. Enriquez, Sujay Kharade, Omar Malagon, Yadira Ordonez, Edgar Ojeda, Shradda Thakkar, E. Nathalie

Pineda. Preparation and use of a composition for prevention and mitigation of the effects of radiation, PCT/US2014/055657, filed Sep 15, 2014

## **2013**

Guangrong Zheng, Cesar Compadre, Philip Breen, Martin Hauer-Jensen, Peter Crooks, Methods for making tocoflexols and analogues thereof, WO2013176745 A1, November 28, 2013

Philip Breen, K. Sree Kumar, Cesar Compadre, Martin Hauer-Jensen, Kottayl Varughese Tocopherol derivatives and methods of use, US20130158106 A, June 20, 2013.

Cesar Compadre, Philip J. Breen, Nukhet Aykin-Burns, Martin Hauer-Jensen, Raul G. Enriquez, Sujay Kharade, Omar Malagon, Yadira Ordonez, Edgar Ojeda, Shradda Thakkar, E. Nathalie Pineda. Preparation and use of a composition for prevention and mitigation of the effects of radiation, provisional patent application 61/877/655, Sep 13, 2013.

## **2012**

Michael J. Caplan, Howard B. Sosin, Hugh A. Sampson, Gary A. Bannon, A. Wesley Burks, Gael Cockrell, Cesar M. Compadre, Cathie Connaughton, Ricki M. Helm, Nina E. King, Randall A. Kopper, Soheila J. Maleki, Patrick A. Rabjohn, David S. Shin, and J. Steven Stanley. Methods and reagents for decreasing clinical reaction to allergy. US 20120283421 A1, November 8, 2012.

Cassandra L. Quave, Mark S. Smeltzer, Cesar M. Compadre, and Howard Hendrickson, Anti-Biofilm Compositions and Methods for Using, WO/2012/048119, April 12, 2012.

Cassandra L. Quave, Mark S. Smeltzer, Cesar M. Compadre, and Howard Hendrickson., Anti-Biofilm Compositions and Methods for Using, US 2012/0088671. April 12, 2012.

Cesar M. Compadre, Philip Breen, Hamid Salari, E Kim Fifer, Danny L Lattin, Michael Slavik, Yanbin Li, Timothy O'Brien, Amy L Waldroup, Thomas F Berg: Concentrated, Non-foaming Solution of Quaternary Ammonium Compounds and Methods of Use. US 8,323,673 B2, December 4, 2012

Cesar M. Compadre, Philip Breen, Hamid Salari, E Kim Fifer, Danny L Lattin, Michael Slavik, Yanbin Li, Timothy O'Brien, Amy L Waldroup, Thomas F Berg: Concentrated, Non-foaming Solution of Quaternary Ammonium Compounds and Methods of Use. US20120071521, March 22, 2012

## **2011**

Quave, Cassandra L. Smeltzer, Mark S. Compadre, Cesar M. and Hendrickson, Howard, Anti-

Biofilm Compositions and Methods for Using, US20120088671, October 11, 2011

Compadre, C. M., Hauer-Jensen, M, Philip J. Breen, Kottayl I. Varughese, and Sree Kumar, Tocopherol derivatives and methods of use, WO/2011/153353, June 2, 2011

Grazyna Nowak, Cesar M. Compadre, Martin Hauer-Jensen Use of Tocols to Ammeliorate Kidney Injury, 61/553,740. October 31, 2011.

## **2009**

Cesar Compadre, Philip Breen, Hamid Salari, E Kim Fifer, Danny L Lattin, Michael Slavik, Yanbin Li, Timothy O'Brien, Amy L Waldroup, Thomas F Berg: Concentrated, Non-foaming Solution Of Quaternary Ammonium Compounds and Methods of Use. US7541045 B2, Jun, 2 2009.

## **2006**

Richard Drake, Trenton Hinds, Cesar Compadre, Barry Hurlburt, Tammy Rechten: Mutated Herpes Simplex Virus Type 1 Thymidine Kinases and Uses Thereof. March 28, 2006, US7018834

## **2005**

Cesar Compadre, Philip Breen, Hamid Salari, E Kim Fifer, Danny L Lattin, Michael Slavik, Yanbin Li, Timothy O'Brien, Amy L Waldroup, Thomas F Berg: Concentrated, Non-foaming Solution of Quaternary Ammonium Compounds and Methods of Use. University of Arkansas. Oct, 27 2005: US20050239850

Cesar Compadre, Philip Breen, Hamid Salari, E Kim Fifer, Danny L Lattin, Michael Slavik, Yanbin Li, Timothy O'Brien, Amy L. Waldroup, Thomas F Berg: Concentrated, Non-foaming Solution of Quaternary Ammonium Compounds and Methods of Use. University of Arkansas. May, 26 2005: US20050113012

Cesar Compadre, Philip Breen, Hamid Salari, E Kim Fifer, Danny L Lattin, Michael Slavik, Yanbin Li, Timothy O'Brien, Amy L Waldroup, Thomas F Berg: Concentrated, Non-foaming Solution Of Quarternary Ammonium Compounds And Methods of Use. University of Arkansas. Mar, 8 2005: US6864269

## **2003**

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Michael J Caplan, Howard B Sosin, Hugh Sampson, Gary A Bannon, A Wesley Burks, Gael Cockrell, Cesar M Compadre, Cathie Connaughton, Ricki M Helm, Nina E King, Randall A Kopper, Soheila J Maleki, Patrick A Rabjohn, David S Shin, J Steven Stanley: Methods And Reagents For Decreasing Clinical Reaction To Allergy. Oct, 30 2003: US20030202980

Richard Drake, Trenton Hinds, Cesar Compadre, Barry Hurlburt, Tammy Rechten: Mutated Herpes Simplex Virus Type 1 Thymidine Kinases and Uses Thereof. The Board of Trustees of the University of Arkansas. Aug, 26 2003: US6610289

Compadre Cesar, Breen Philip, Salari Hamid, Fifer E Kim, Lattin Danny L, Slavik Michael, Li Yanbin, O'Brien Timothy, Waldroup Amy L, Berg Thomas F: Concentrated Solution of Quaternary Ammonium Compounds and Methods of Use. University of Arkansas. Aug, 9 2003: KR1020030066316

Cesar Compadre, Philip Breen, Hamid Salari, E Kim Fifer, Danny L Lattin, Michael Slavik, Yanbin Li, Timothy O'Brien, Amy L. Waldroup, Thomas F Berg:  
濃縮的季化合物溶液及其使用方法. The University of Arkansas. Apr, 11 2003: HK1048591

Cesar Compadre, Philip Breen, Hamid Salari, E Kim Fifer, Danny L Lattin, Michael Slavik, Yambin Li, Timothy O'Brien, Amy L Waldroup, Thomas F Berg: Concentrated, Non-foaming Solution Of Quaternary Ammonium Compounds and Methods of Use. Jan, 30 2003: US20030021818

## **2002**

Compadre Cesar, Breen Philip, Salari Hamid, Fifer E Kim, Lattin Danny L, Slavik Michael, Li Yanbin, O'Brien Timothy, Waldroup Amy L, Berg Thomas F: Concentrated Solution Of Quaternary Ammonium Compounds And Methods Of Use. Univ Arkansas. Dec, 4 2002: EP1261318 (A2)

Richard Drake, Trenton Hinds, Cesar Compadre, Barry Hurlburt, Tammy Rechten: Mutated Herpes Simplex Virus Type 1 Thymidine Kinases And Uses Thereof. Oct, 10 2002: US20020146796

Caplan Michael, Sosin Howard, Sampson Hugh, Bannon Gary A, Burks Wesley A, Cockrell Gael, Compadre Cesar M, Connaughton Cathie, Helm Ricki M, King Nina E, Kopper Randall A, Maleki Soheila J, Rabjohn Patrick A, Shin David S, Stanley J Steven: Methods and Reagents for Decreasing Clinical Reaction To Allergy. Panacea Pharmaceuticals. Sep, 26 2002: WO2002/074250

## **2001**

Compadre Cesar, Breen Philip, Salari Hamid, Fifer E Kim, Lattin Danny L, Slavik Michael, Li Yanbin, O'Brien Timothy, Waldroup Amy L, Berg Thomas F: Concentrated Solution Of Quaternary Ammonium Compounds And Methods Of Use. University of Arkansas. Aug, 2 2001: WO2001/054502

Compadre Cesar, Breen Philip, Salari Hamid, Fifer E Kim, Lattin Danny L, Slavik Michael, Li Yanbin, O'Brien Timothy, Waldroup Amy L, Berg Thomas F: A Concentrated, Non-foaming Solution Of Quaternary Ammonium Compounds and Methods of Use. University Of Arkansas. Aug, 2 2001: CA2399801

Richard Drake, Trenton Hinds, Cesar Compadre, Barry Hurlburt, Tammy Rechten: Mutated Herpes Simplex Virus Type 1 Thymidine Kinases And Uses Thereof. Jun, 12 2001: US6245543

## **2000**

Bannon Gary A, Burks A Wesley Jr, Sampson Hugh A, Sosin Howard B, King Nina E, Maleki Soheila J, Connaughton Cathie, Kopper Randall A, Rabjohn Patrick A, Shin David S, Compadre Cesar M: Methods And Reagents For Decreasing Clinical Reaction To Allergy. \Sep, 8 2000: WO2000/052154

Cesar Compadre, Philip Breen, Hamid Salari, E Kim Fifer, Danny L Lattin, Michael Slavik, Yanbin Li, Timothy O'Brien: Method for the Broad Spectrum Prevention and Removal of Microbial contamination of Food Products By Quaternary Ammonium Compounds. Mar, 21 2000: US6039992

Cesar Compadre, Philip Breen, Hamid Salari, E Kim Fifer, Danny Lattin, Mike Slavik, Yanbin Li, Timothy O'Brien: 廣譜防止和清除食物微染. Feb, 25 2000: HK1019692

## **1999**

Drake Richard, Hinds Trenton, Hurlburt Barry, Compadre Cesar, Rechten Tammy: Mutated Herpes Simplex Virus Type 1 Thymidine Kinases And Uses Thereof. The Board of Trustees of The University of Arkansas. Dec, 29 1999: WO1999/067372

Burks Wesley Jr, Helm Ricki M, Cockrell Gael, Bannon Gary A, Stanley J Steven, Shin David S, Sampson Hugh, Compadre Cesar M, Huang Shau K, Maleki Soheila J, Kopper Randall A: Tertiary Structure Of Peanut Allergen Ara H 1. Board of Trustees of the University of Arkansas. Sep, 16 1999: WO1999/045961

Compadre Cesar, Breen Philip, Salari Hamid, Fifer E Kim, Lattin Danny, Slavik Mike, Li Yanbin, O'Brien Timothy: Broad Spectrum Prevention And Removal Of Microbial Contamination Of Food By Quaternary Ammonium Compounds. Univ Arkansas. May, 6 1999: EP0912101 (A1)

Cesar Compadre, Philip Breen, Hamid Salari, E Kim Fifer, Danny Lattin, Mike Slavik, Yanbin Li: Method For The Broad Spectrum Prevention And Removal Of Microbialcontamination Of Poultry And Meat Products By Quaternary Ammonium compounds. University Of Arkansas. Jan, 5 1999: US5855940

#### **1997**

Compadre Cesar, Breen Philip, Salari Hamid, Fifer E Kim, Lattin Danny, Slavik Mike, Li Yanbin, O'Brien Timothy: Broad Spectrum Prevention And Removal Of Microbial Contamination Of Food By Quaternary Ammonium Compounds. University of Arkansas. Oct, 23 1997: WO1997/038586

Compadre Cesar, Breen Philip, Salari Hamid, Fifer E Kim, Lattin Danny, Slavik Mike, Li Yanbin, O'Brien Timothy: Broad Spectrum Prevention And Removal Of Microbial Contamination Of Food By Quaternary Ammonium Compounds. University of Arkansas. Oct, 23 1997: CA2250761

#### **1994**

Lattin Danny L, Breen Philip J, Compadre Cesar M, Fifer E Kim, Slavik Michael F, Salari Hamid, Engler Phillip V: Use of Quaternary Ammonium Compounds to Remove Salmonella Contamination From Meat Products. The Board of Trustees of the University of Arkansas. Nov, 22 1994: US5366983

#### **1989**

Kinghorn Alan D, Compadre Cesar M, Pezzuto John M: Low Cariogenic Sweetening Agents. Board Of Trustees University Of Illinois. Feb, 28 1989: US4808409

#### **1986**

Kinghorn Alan Douglas, Compadre Cesar M, Pezzuto John M: Low Cariogenic Sweetening Agents.. Univ Illinois. Aug, 27 1986: EP0191830 (A1)

Kinghorn Alan Douglas, Compadre Cesar M, Pezzuto John M: Low Cariogenic Sweetening Agents. University of Illinois. Feb, 27 1986: WO1986/001101

#### **PUBLICATIONS.**

1. Fil, D., DeLoach, A., Yadav, S., Alkam, D., MacNicol, M., Singh, A., **Compadre, C.M.**, Goellner, J.J., O'Brien, C.A., Fahmi, T. and Basnakian, A.G., Noel Y. Calingasan, Jodi L. Klessner, Flint M. Beal, Owen M. Peters, Jake Metterville, Robert H. Brown, Jr,

- Karen K.Y. Ling, Frank Rigo, P. Hande Ozdinler, and Mahmoud Kiaei. 2016. Mutant Profilin1 Transgenic Mice Recapitulate Cardinal Features of Motor Neuron Disease. *Human Molecular Genetics*, p.ddw429.
2. Paola E. Ordóñez, Krishan K. Sharma, William F. Reynolds Raul G. Enriquez, Darcy C. Burn, Omar Malagón, Darin E. Jones, Monica L. Guzman and Cesar M. Compadre. The sesquiterpene lactone dehydroleucodine from *Gynoxys verrucosa* Wedd demonstrates cytotoxic activity against human leukemia cells, *Journal of Natural Products* **2016** 79 (4), 691-696 DOI: 10.1021/acs.jnatprod.5b00383
  3. Xingui Liu, Satheesh Gujarathi, Xuan Zhang, Lijian Shao, Marjan Boerma, Cesar M. Compadre, Peter A. Crooks, Martin Hauer-Jensen, Daohong Zhou, Guangrong Zheng Synthesis of (2*R*,8'*S*,3'*E*)- $\delta$ -tocodienol, a tocoflexol family member designed to have a superior pharmacokinetic profile compared to  $\delta$ -tocotrienol, *Tetrahedron* 72 4001e4006, 2016
  4. Gomes, T.A., Gu, X., Brownmiller, C.R., Howard, L., Compadre, C.M. and Lee, S.-O. (2015) Effects of Tocols Rich Fraction Isolated from Rice Bran Oil Deodorizer Distillate on Plasma and Hepatic Lipid Concentrations in Rats. *Journal of Biosciences and Medicines*, 3, 1-8, 2015 <http://dx.doi.org/10.4236/jbm.2015.3900>
  5. Kimberly J. Krager, E. Nathalie Pineda-Sotomayor, Sujay Kharade, Mary Kordsmeier, Luke Howard, Philip J. Breen, Cesar M. Compadre, Martin Hauer-Jensen, Nukhet Aykin-Burns, Tocotrienol rich fraction from rice bran demonstrates potent radiation protection activity, *Evidence-Based Complementary and Alternative Medicine* Volume 2015, Article ID 148791, 9 pages, 2015
  6. Cardenas VM, Breen PJ; Compadre CM; Delongchamp RR; Barone CP; Phillips MM; Wheeler JG. "The smoking habits of the family influence the uptake of e-cigarettes in US children." *Annals of Epidemiology*, 25: 60-62, 2015
  7. Molecular dynamics guided design of tocoflexol, a new radioprotectant tocotrienol with enhanced bioavailability. Cesar M. Compadre, Awantika Singh, Shraddha Thakkar, Guangrong Zhen, Mahmoud Kiaei, Marjan Boerma, Sanchita Ghosh, Philip J. Breen, Kottayil I. Varughese, Martin Hauer-Jensen, and Cesar M. Compadre. *Drug Dev. Res.* 75: 10–22, 2014.
  8. Effects of Late Administration of Pentoxifylline and Tocotrienols in an Image-Guided Rat Model of Localized Heart Irradiation. Vijayalakshmi Sridharan, Preeti Tripathi, Sunil Sharma, Peter M. Corry, Eduardo G.Moros, Awantika Singh, Cesar M. Compadre, Martin Hauer-Jensen, Marjan Boerma, *PLoS ONE*, 8(7): e68762, 2013
  9. *Quercus cerris* extracts limit *Staphylococcus aureus* biofilm formation. Gerren H. Hobby, Cassandra L. Quave, Katie Nelson, Cesar M. Compadre, Karen E. Beenken, Mark S. Smeltzer, *Journal of Ethnopharmacology* 144: 812–815, 2012

10. Structural modification of tocotrienols to improve bioavailability, Awantika Singh, Philip J. Breen, Sanchita Ghosh, K. Sree Kumar, Kottayil I. Varughese, Peter A. Crooks, Martin Hauer-Jensen, and Cesar M. Compadre. In *Tocotrienols: Vitamin E Beyond Tocopherols*, 2nd edition: Tan B., Watson RR and Preedy VR. Eds., American Oil Chemists Society and Taylor & Francis, 2012, pp 359-370
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14. Isolation and identification of secondary metabolites from *Artemisia sodiroi* Hieron. Talía Briceño, Cesar M. Compadre Paola Ordonez, Omar Malagon, *Avances*, 3, 46-49, 2011
15. Sesquiterpene lactones from *Gynoxys verrucosa* and their anti-MRSA activity. Paola E. Ordonez, Cassandra L. Quave, William F. Reynolds, Kottayil I. Varughese, Brian Berry, Philip J. Breen, Omar Malagón Mark S. Smeltzer, Cesar M. Compadre, *Journal of Ethnopharmacology* 137: 1055-1059, 2011
16. Exploring hydrophobic binding s using CoMFA and flexible hydrophobic ligands. Shraddha Thakkar, Rosa. I. Sanchez, Chidambaram Bhuvaneswaran, and Cesar M. Compadre, *AIP Conf. Proc.* 1326:106-111, 2011
17. Molecular modeling analysis of the inhibition of mitochondrial cytochrome bc1 complex activity by tocol derivatives. Awantika Singh, Martin Hauer-Jensen, and Cesar M. Compadre, and K. Sree Kumar, *AIP Conf. Proc.* 1326:143-149, 2011
18. Less common high-potency sweeteners. A. Douglas Kinghorn and Cesar M. Compadre In *Alternative Sweeteners*, Fourth Edition, Lyn O'Brien-Nabors, Editor, CRC Press 2011, Pages 223–246 (DOI: 10.1201/b11242-16).
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28. Less Common High-Potency Sweeteners, Kinghorn, A.D., and C.M. Compadre, In *Alternative Sweeteners*, Eds. L. O. Nabors and R.C. Gelardi, Marcell Dekker, New York, 3 rd. Ed., 2001.
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48. Cetylpyridinium Chloride Inhibits and Reduces Attachment of *Escherichia Coli* O157:H7 and *Salmonella typhimurium* to Meat. C. M. Compadre, Philip J. Breen, E. Kim Fifer, Danny L. Lattin and Hamid Salari, Mike Slavik, Phil Matsler, American Chemical Society Meeting, Orlando, FL, August 25-29, 1996.
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50. Chemical methods for Contamination Reduction on Meat, C. M. Compadre, Philip, J. Breen, E.K.Fifer, and Hamid Salari, Workshop on Research on Salmonellosis in the Food Safety Consortium, United States and Health Association, Little Rock, AR, October 17, 1996.
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52. Development and Validation of Homology Models of the Cathepsins H, L, and S, James A. Sumpter, R. Lilia Compadre, C. Bhuvanewaran and C. M. Compadre, International Congress on Proteolysis and Protein Turnover, Turku, Finland, September 9-13, 1996.
53. The Activity of Cysteine Proteinases in non-Aqueous Environments and its Potential for Industrial Application, C. M. Compadre, R. Lilia Compadre, R. I. Sanchez, David Plunkett, James Sumpter and C. Bhuvanewaran, International Congress on Proteolysis and Protein Turnover, Turku, Finland, September 9-13, 1996.
54. Bacterial Potency of Cetylpyridinium Chloride for Reducing *Salmonella typhimurium* on Pre-chill chicken carcasses. M.F. Slavik, Y. Li, P. J.. Breen, C.M. Compadre, H. Salari and P. Matsler, Food Safety Consortium, Annual Meeting, October, 25-26, 1996, Kansas City Missouri.
55. Chemical and Physico-Chemical Determinants of "Ames" Mutagenicity. R. L. Compadre, C. A. Byrd, M. Gurley, R. Sams, C. M. Compadre, *Arkansas Toxicology Symposium "Understanding the Causes of Aging and Cancer"*, Little Rock, AR, October 9-11, 1996.
56. Structure-Function Studies Of Heat Shock Proteins. Christine A. Byrd, R. L. Compadre, K. J. Henle, S. Jethmanali, C. M. Compadre. UAMS Research Day, Little Rock, AR, April 1-3, 1997
57. Molecular Surface Properties And Compa of Substrates And Inhibitors of the Herpes Simplex Virus Type I Thymidine Kinase Reveals Features That Are Critical For Efficient Binding And Activity, Trenton Hind, Richard Drake And C. M. Compadre, UAMS Research Day, Little Rock, AR, April 1-3, 1997
58. Characterization of A Major Peanut Allergen: Mutational Analysis of the *Ara H 1* Ige Binding Epitopes And Strategies For the Creation of A Hypoallergenic Peanut Clone. David S. Shin., A.W. Burks, C. M. Compadre, J.S. Stanley, R.M. Helm, S.K. Huang, H. Sampson, G.A. Banon, UAMS Research Day, Little Rock, AR, April 1-3, 1997
59. Structure-Activity Relationships of Sesquiterpene Lactones With Potential Antimigraine Activity, Qing Luo, Robin J. Marles, A. Darsey And C. M Compadre, American Chemical Society Meeting, San Francisco, California, April 13-17, 1997
60. Use of Neural Networks For the Study of Correlations Between Molecular Orbitals And Electronic Properties of Polymers, Qing Luo, Sanjay K.. Mitra, Jerry A. Darsey And C. M Compadre, American Chemical Society Meeting, San Francisco, California, April 13-17, 1997

61. Prediction of Potential Antimigraine Activity Using Artificial Neural Networks, Qing Luo, Sanjay K. Mitra, Jerry A. Darsey And C. M. Compadre, Arkansas Academy of Sciences Annual Meeting, Monticello, AR, May 5, 1997.
62. Artificial Neural Networks Used to Predict Electrical Properties of Polymers Sanjay K. Mitra, Qing Luo, Jerry A. Darsey, Arkansas Academy of Sciences, Annual Meeting, May 5, 1997
63. A Comparison of the Latin to Nahuatl Names of Mexican Headache Plants from the Works of Francisco Hernandez. Elaine M. Bieber, And C. Compadre, 24th MALTO Medicinal Chemistry Meeting, Little Rock, AR May, 19-21, 1997  
Structure Function Studies of 70kd Heat Shock Protein. Christine A. Byrd, J.A. Sumpter, S. Jethmalani, K.J. Henle, R.L. Compadre, And C.M. Compadre, 24th MALTO Medicinal Chemistry Meeting, Little Rock, AR May, 19-21, 1997
64. Determination of Cetylpyridinium Chloride In Food Products Using High Performance Liquid Chromatography. Andronica Handie, Xiang Zhou, Hamid Salari, Phil Breen, And C. Compadre, 24th MALTO Medicinal Chemistry Meeting, Little Rock, AR May, 19-21, 1997
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66. Cetylpyridinium Chloride As A General Agent For Elimination of Pathogens from Food Products. Hamid Salari Philip J. Breen C. M. Compadre E. Kim Fifer Michael Slavik And Yanbin Li, 24th MALTO Medicinal Chemistry Meeting, Little Rock, AR May, 19-21, 1997
67. Structure-Antimigraine Activity Relationships Using Comfa And Artificial Neural Networks. Qing Luo Jerry A. Darsey R. Lilia Compadre R.J. Marles C. M. Compadre, 24th MALTO Medicinal Chemistry Meeting, Little Rock, AR May, 19-21, 1997
68. Identification of Properties of Substrates And Inhibitors of the Herpes Simplex Virus Type I Thymidine Kinase Critical For Efficient Binding And Activity Using Comparative Molecular Field Analysis (Comfa) and Molecular Computer Aided Design (MOLCAD) Surfaces. T.A. Hinds, R.R. Drake, C.M. Compadre, 24th MALTO Medicinal Chemistry Meeting, Little Rock, AR May, 19-21, 1997
69. Investigation of the Pharmacokinetics of Albuterol After Aerosol Inhalation Using Gas Chromatography-Mass Spectrometry. Xiang Zhou, Paula Anderson, Phil Breen, Larry Gann, Todd W. Logsdon, C. M. Compadre, And Charles Hiller, 24th MALTO Medicinal Chemistry Meeting, Little Rock, AR May, 19-21, 1997
70. Characterization of Cathepsin B P Subsite Using Comparative Molecular Field Analysis (Comfa) And Molecular Computer Aided Design (MOLCAD) Surfaces of Substituted

- Benzoyl-Gly-*P-X*-Phenyl Esters And Benzoyl-Gly-*M-Y*-Phenyl Esters. Ian M. Cawich Rosa I. Sanchez C. Bhuvaneshwaran R. Lilia Compadre C. M. Compadre, 24<sup>th</sup> MALTO Medicinal Chemistry Meeting, Little Rock, AR May, 19-21, 1997
71. Pulmonary Absorption of Inhaled Albuterol. Zhou, X., Breen, P., Gann, L., Compadre, C., Hiller, F.C., and Anderson, PJ. Pulmonary Society Conference, Kobe, Japan, 1997.
  72. Gender Differences in Albuterol Pharmacokinetics Anderson, PJ, Zhou, X., Breen, P., Gann, L., Compadre, C., and Hiller, F.C. American Thoracic Society, International Conference, San Francisco, USA, 1997.
  73. Pharmacokinetics of Inhaled Albuterol in Asthmatic Subjects. Anderson, PJ, Zhou, X., Breen, P., Gann, L., Compadre, C., and Hiller, F.C. ALA/ATS Conference, San Francisco, 1998.
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  75. Pharmacodynamics of Inhaled Albuterol in Asthmatic Subjects Is Not Affected by Hydrofluoroalkane-134A (HFA) Propellant,” Anderson, P., Zhou,X., Breen, P.J., Gann,L., Compadre,C., and Hiller, F.C. ALA/ATS International Conference, April, 2000.
  76. The Virtual Esophagus: Progress in the Development of an Anatomically Accurate Model of Esophageal Motility,” Compadre,C., Sumpter, J., Ross, M., Breen, P.J., and Pasley, J., 27<sup>th</sup> annual MALTO meeting, New Orleans, LA, May, 2000.
  77. The Development of Simulations of Human Physiology in Weightless Environments Sumpter, J.A., Breen, P.J., Pasley, J.N., Cheng, R., Ross, M.D., and Compadre, C.M., , Virtual Worlds and Simulations 2001 Conference, Phoenix, AZ, Jan 7-11, 2001.
  78. Simulation of Human Physiology in Weightless Environments, Sumpter, J., Breen, P., Pasley, J., Compadre, C., Ross, M, and Cheng, R, Arkansas Space Grant Consortium Annual Meeting, Searcy, AR, April 27, 2001.
  79. Residual Drug in Pharmacokinetics Joguparthi, V., Breen, P., and Compadre, C., Annual MALTO Conference, Oxford, MS., May 19, 2001
  80. Relationship of Plasma Albuterol Level to FEV<sub>1</sub> in Asthmatic Subjects Anderson,PJ, Zhou,X., Breen, PJ., Gann,L. Compadre,CM., and Hiller,FC. American Thoracic Society International Conference, San Francisco, May 18-23, 2001.
  81. Effect of Propellant on the Pharmacokinetics and Pharmacodynamics of Albuterol in Human Asthmatics. Joguparthi, V., Breen, P.J., Anderson, P., Zhou, X., Compadre, C., and Hiller, F.C., International Society for Aerosols in Medicine, 13<sup>th</sup> International Congress, Interlaken, Switzerland, Sep. 17-21, 2001. 21.

82. Pharmacodynamics of Inhaled Albuterol via different devices and propellants in asthmatic subjects” International Society for Aerosols in Medicine, Anderson, P., Breen, P.J., Joguparthi, V., Compadre, C., and Hiller, F.C., 13<sup>th</sup> International Congress, Interlaken, Switzerland, Sep. 17-21, 2001
83. Computer Simulations of the Expected Changes in Esophageal Transport, Gastrointestinal Absorption, and Pharmacodynamics of orally Ingested Agents in Weightlessness. Breen, P., Sumpter, J., Pasley, J., Compadre, C. Arkansas Space Grant Consortium Annual Meeting, Jonesboro, AR, April 26, 2002
84. Pharmacokinetics of inhaled albuterol in adults with cystic fibrosis, Anderson PJ, Breen P, Joguparthi V, Gann LP, Compadre C, Hiller FC . Presented at the American Thoracic Society Meeting, Atlanta, May, 2002
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87. Development of a GC/MS Assay for Salmeterol. Caldwell, D., Breen, P., and Compadre, C. Annual MALTO Conference, Little Rock, AR, May 19, 2003.
88. Pharmacokinetics and Pharmacodynamics of Inhaled Albuterol in Adults with Cystic Fibrosis Compared with Normal Subjects. 003, Anderson, P.; Breen, P.; Joguparthi, V.; Gann, L.; Compadre, C.; and Hiller, FC. American Thoracic Society International Conference, Seattle, WA, May 21, 2003.
89. Arkansas Space Grant Consortium Annual Meeting, Conway, AR, April 25, 2003. Breen, P., Wallace, T., Pasley, J., Compadre, C. “The Use of Physiological Models to Simulate the Pharmacokinetics and Pharmacodynamics of Drugs in Weightlessness”.
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91. The Use of Physiological Models to Simulate the Pharmacokinetics and Pharmacodynamics of Drugs in Weightlessness, Breen, P., Wallace, T., Pasley, J., Compadre, C. Arkansas Space Grant Consortium Annual Meeting, Conway, AR, April 25, 2003.
92. A Community-state Agency-university Partnership for Assessment, Demonstration and Improvement of the Environment in a New Latino Growth Area. Ochoa E. R., Robles E,

- Breen, P. J, Bieber, E, Eigenbrodt M, and Compadre C. M. American Public Health Association Conference, Washington, D.C., Nov. 9, 2004,
93. The Nuts and Bolts of Tobacco Addition, Clearing the Air in Communities of Color Conference, Cesar Compadre, Pine Bluff AR, February, 11-12, 2004
  94. Application of Computational Techniques on Natural Products Chemistry, Compadre, CM, 1<sup>st</sup> Symposium on the Chemistry of Natural Products, Merida, Mexico, May 19-22, 2004
  95. Determination of Salmeterol in plasma by gas chromatography-mass spectrometry with selected-ion monitoring ., Maria Jose Munoz-Fambuena, Phil Breen, David Caldwell, Thomas Godwin, Zhou Xiang, Paula Anderson, Charles Hiller, and Cesar M Compadre. American Chemical Society Conference, Washington, D.C., August 28, 2005
  96. New Communities and Opportunities- Perspectives on Emerging Latino Populations. Compadre, C.M, Congressional Democratic Leadership Summit, Washington DC, September 9<sup>th</sup>, 2005. Invited to the Higher Education Panel
  97. Predictive model of the inhibition of CYP3A4 by selected natural compounds, Thotakura, Sushma; Darsey, Jerry A.; Wang, Kun; Arnason, John T.; Compadre, Cesar M. 233rd ACS National Meeting, Chicago, IL, 2007
  98. The Development of Simulations of Human Physiology in Weightless Environments, Compadre, CM, Sumpter, JA, Breen, PJ., NASA Jet Propulsion Laboratories, Pasadena CA, October 15 2007
  99. Development of Predictive Models of the Inhibition of CYP34A by Plant Components, Compadre, CM., Wang, K., Darsey, JA., Melchert, R, Arnason, JT.,and Gurley, BJ, 64<sup>th</sup> ACS-SWRM, Little Rock, October 2, 2008
  100. The structural basis for the potent antimicrobial activity of dehydroleucodine against MRSA and MRSE Paola Ordóñez· Cassandra L. Quave, Omar Malagón Kottayil I. Varughese· Silvia Gonzalez, Mark S. Smeltzer, and Cesar M. Compadre· NANOBIOToX International Conference, Little, Rock, Arkansas, April, 2009
  101. Comparative Molecular Field Analysis of the Binding of Vitamin E components to the  $\alpha$ -Tocopherol Transfer Protein, Awantika Singh, Silvia Gonzalez, Martin Hauer-Jensen, Sree Kumar and Cesar M. Compadre, NANOBIOToX International Conference, Little, Rock, Arkansas, April, 2009
  102. Antimicrobial activity against MRSA and MRSE and molecular structure of dehydroleucodine isolated from the Ecuadorian plant *Gynoxys verrucosa*, Wedd, Paola Ordóñez, Cassandra L. Quave, Omar Malagón, Kottayil I. Varughese, Mark S. Smeltzer, and Cesar M. Compadre, MALTO Meeting, Memphis, TN, May 2009.
  103. Development of predictive CoMFA model and an inhibition assay of CYP3A4 by plant

- components, Sidalay Chanthaseny, Cesar M. Compadre, Kun Wang, Jerry Darsey, Russell B. Melchert, J. Thor Arnason and Bill Gurley, MALTO Meeting, Memphis, TN, May 2009.
104. The mechanism of the anti-MRSA activity of naturally occurring sesquiterpene  
Lactones Paola Ordonez, Cassandra L. Quave, Omar Malagn, Kottayil I. Varughese, Silvia Gonzalez, Mark S. Smeltzer, W. F. Reynolds, Cesar M. Compadre, MALTO Medicinal Chemistry & Pharmacognosy Meeting, May 23–25, 2010, Oxford, Mississippi.
  105. 3-D QSAR Analysis of the Inhibition of Mitochondrial Cytochrome bc<sub>1</sub> M27 activity by Tocopherols and Tocopheryl Quinones, Awantika Singh,<sup>1,3</sup> K. Sree Kumar,<sup>2</sup> Martin Hauer-Jensen, Cesar M. Compadre, MALTO Medicinal Chemistry & Pharmacognosy Meeting, May 23–25, 2010, Oxford, Mississippi.
  106. Drug Design, XVI Latin-American Congress of Chemical Engineering, Loja Ecuador, July 27, 2010. Plenary Session
  107. *Staphylococcus aureus* biofilms inhibition by a phenolic glycoside-rich extract of *Rubus ulmifolius*, Quave, C.L., C. Compadre, H. Hendrickson, K. Beenken, and M.S. Smeltzer. 10th Annual Oxford International Conference on the Science of Botanicals (ICSB), Oxford, MS, USA, April 11-14, 2011.
  108. Ordoñez, P., C.L. Quave, W.F. Reynolds, K.I. Varughese, Berry, B. Malagon, M.S. Smeltzer, and C.M. Compadre. Sesquiterpene lactones of *Gnoxys verrucosa* and their anti-MRSA activity. poster). 10th Annual Oxford International Conference on the Science of Botanicals (ICSB). 4/11-14/2011. Oxford, MS, USA.
  109. Hobby, G. Quave, C.L., C. Compadre, H. Hendrickson, K. Beenken, and M.S. Smeltzer. Inhibition of biofilms formation in *Staphylococcus aureus* by *Quercus cerris* extracts. (poster). 10th Annual Oxford International Conference on the Science of Botanicals (ICSB). 4/11-14/2011. Oxford, MS, USA.
  110. Quave, C.L., C. Compadre, H. Hendrickson, K. Beenken, and M.S. Smeltzer. *Staphylococcus aureus* biofilms inhibitors from an elmleaf blackberry extract (oral presentation). International Conference on Gram Positive Pathogens. Omaha, NE, USA. 10/10-13/2010.
  111. RPADaBase: The Database of Radiation Protection Agents, Awantika Singh, Roger Hall, Philip J. Breen<sup>1</sup>, K. Sree Kumar<sup>2</sup>, Martin Hauer-Jensen<sup>1</sup> and Cesar M. Compadre, Sixth Annual Conference of the BioNanoTox, Little Rock, AR, November 17-18, 2011.
  112. Molecular modeling analysis of the inhibition of mitochondrial cytochrome bc<sub>1</sub> complex activity by tocol derivatives, Awantika Singh, K. Sree Kumar, Martin Hauer-Jensen and Cesar M. Compadre. 10th Annual Conference of the MidSouth Computational Biology and Bioinformatics Society MCBIOS, April 1-2, 2011

## **SERVICE AND COMMUNITY INVOLVEMENT:**

Participated in numerous academic committees, such as: curriculum, assessment, tenure and promotion, admissions, diversity, and computer utilization

1998 - 2010 produced a radio program entitled "Latin Heath". This weekly public service program aimed towards the Hispanic community of Arkansas is aired every Saturday in KABF 88.3 FM.

Worked with the various non-profit Latino/Hispanic organizations in Arkansas (LULAC, Centro Hispano, and the Hispanic Health Coalition) to improve the educational and health status of the underserved Hispanic population of the State.

As a Chairman of the Board Coalition for a Tobacco Free Arkansas led the organization during many key events on the movement for clean air indoor policies, such as the passing of the Smoke-Free ordinances in Pine Bluff, and el Dorado, and the State-wide ban on tobacco smoking in working places

2000 -2006, Board Member of Arkansas Advocates for Children and Families

2001- 2009, Chairman of the Board of LA CASA HEALTH NETWORK

2008-2015, Appointed to the Board of Directors of the Arkansas Science and Technology Authority

2015, Elected Chair, Board of Directors of the Arkansas Science and Technology Authority