

Curriculum Vitae

Joseph Angel De Soto M.D., Ph.D., F.A.I.C.

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Work Experience

- ✚ Principal Investigator/Fellow, National Institute of Diabetes, Digestive and Kidney Diseases, National Institutes of Health, Bethesda MD **2007-**
- ✚ IRTA Post-Doctoral Fellow, National Institute of Diabetes, Digestive and Kidney Diseases, National Institutes of Health, Bethesda MD **2005-2007**
- ✚ Adj. Assoc. Professor Health, Pathopharmacology, & Infectious Disease, Mountain State University, Martinsburg, WV. **2005 – current.**
- ✚ Medical Columnist -The Journal Newspaper, Martinsburg WV. **2005-current.**
- ✚ Combat Medic, United States Army, Honorable Dis. **.1989**

Education & Training

- ✚ **Cert.** Clinical Research Curriculum, The National Institutes of Health, **2006**
- ✚ **Cert.** Translational Research in Clinical Oncology, The National Cancer Institute, Bethesda, MD. Feb **2006**
- ✚ **Ph.D.** Pharmacology, Department of Pharmacology, Howard University Graduate School, Washington DC. Dec **2005**
- ✚ **M.D.** Medicine, Howard University College of Medicine, Washington DC May **2005**
- ✚ **B.S.** Biophysical Chemistry, June, Department of Chemistry, La Sierra University, June 14, **1995.**
- ✚ **Cert.** Combat Medic Training, Academy of Health Sciences, United States Army, Ft. Sam Houston TX **1988.-** Valedictorian.

Medical Board Scores

- | | | |
|---|-----------------|--------|
| ✚ | USMLE Step 2 CK | 223 |
| ✚ | USMLE Step 2 CS | Passed |
| ✚ | USMLE Step 1 | 220 |

Doctoral Dissertation

Approaches in Chemo -Hormonal Therapy in the Treatment of
Human Breast Cancer: The Modulation of High Dose MTX Cytotoxicity by
Anti-Estrogens

Advisors: Donnell Bowen Ph.D., Professor of Pharmacology & Oncology
William Southerland Ph.D., Professor of Biochemistry & Molecular Biology

Grants & Other

- ✚ Principal Investigator, Department of Defense Breast Cancer Research Program, Era of Hope Grant. \$300,000. 2007-2010.
- ✚ Reviewer, Experimental Therapeutics, Oncology, and Diabetes, Journal of the National Medical Association. 2007.
- ✚ Grant Reviewer, Research Centers in Minority Institutions, 2006-2007.

Peer Reviewed Articles and Reviews

- 1) **De Soto JA**, Mandatory HPV vaccination? , *J. Fam. Pract.* 2007 April 56(4):267-268.
- 2) **De Soto JA**, Deng CX, PARP-1 inhibitors, are they the long-sought genetically specific drugs for BRCA1/2-associated breast cancers? *Int. J. Med. Sci.*. 2006 Jul; 3:117-23 [PMID: 16906222](#)
- 3) **De Soto JA**, Fryar EB, Grissom FE, Southerland WM, Green S, Anti-estrogen cross resistance in human breast cancer. *The Chemist*, 2006 June:83:2-5. [ISSN:0009-3025](#).
- 4) Fryar EB, Das JR, Davis JH, **De Soto JA**, Laniyan I, Southerland WM, Bowen D, Raloxifene attenuation of 5-FU/methotrexate cytotoxicity in human breast cancer cells: the importance of sequence in combination chemotherapy. *Anticancer Res.* 2006 May-Jun;26(3A):1861-7. [PMID: 16827118](#)
- 5) **De Soto JA**, Wang X, Tominaga Y, Wang RH, Cao L, Qiao W, Li C, Xu, X, Skoumbourdis A, Prindiville SA, Thomas CJ, Deng, CX. The inhibition and treatment of breast cancer with poly(ADP-ribose) polymerase (PARP-1) inhibitors. *Int. J. Biol. Sci.* 2006 2(4):179-185. [PMID 16810332](#)
- 6) Cao L, Kim S, Xiao C, Wang RH, Coumoul X, Wang X, Li WM, Xu XL, **De Soto JA**, Deng CX, ATM-Chk2-p53 activation prevents tumorigenesis at an expense of organ homeostasis upon Brcal deficiency. *EMBO J.* 2006 17;25(10):2167-77. [PMID 16675955](#)
- 7) **De Soto JA**, Kazi A, Rivera A, Muhammed A, A Case Study: The Treatment of Refractory Schizoaffective Disorder with Aripiprazole. *Pharm Tech.* 2005 21:150-153. [ISSN: 8755-1225](#)
- 8) **De Soto JA**, Bowen D, Southerland WM, Hawkins M, The Interaction of the Steroidal Antagonist Faslodex and Methotrexate, *Cell Mol Bio*, 2003 49(7): 1067-9. [PMID 14682388](#)
- 9) **De Soto JA**, Bowen D, Davis JH, Sequence Dependent Anti-Estrogen Antagonism between Raloxifene and Methotrexate in Human Breast Cancer Cells, *Anti-Cancer Research*, 2002 , 22(2A): 1007-1009. [PMID 12014617](#)
- 10) Cronce DT, Famini GR, **De Soto JA**, Wilson LY, , Using Theoretical Descriptors in Quantitative Structure Property Relationships: Some Distribution Equilibria , *Journal of the Chemical Society, Perkins Transactions 2* 1998 44 :1230-7.

Peer Reviewed Proceedings

- 11) **De Soto JA**, Deng CX, The Enhancement of Paclitaxel Cytotoxicity in Hereditary and Sporadic Breast Cancer by the Poly(ADP) Ribose Polymerase Inhibitor AG14361, *Experimental Biology (FASEBB) Washington D.C.* - April 28, 2007.
- 12) **De Soto JA**, Deng CX, The Inhibition of BRCA-2 Hereditary Breast Cancer with Poly(ADP-ribose) Polymerase (PARP-1) Inhibitors. *National Institutes of Health Research Festival, Bethesda, MD*, October 17,2006.
- 13) Tominaga Y, **De Soto JA**, Wang RH, Deng CX, Chemoprevention and therapeutic treatment of BRCA1 associated breast cancer in conditional knockout mice. *National AACR Meeting, Washington D.C.* April 2, 2006.

14) De Soto JA, Davis JH, Fryer E, Southerland WM, Bowen D., Anti-Estrogen Cross Resistance in Human Breast Cancer, AACR National Meeting, Anaheim, CA, April 2005.

15) Davis JH, Fryer E, De Soto JA, Bowen D, Utilization of Tamoxifen, Methotrexate and 5-Fluororacil: A basis for increased anti-Neoplastic activity and Protection of Bone Marrow. FASEB – Experimental Biology. National Meeting, April, San Diego CA. 2003.

16) De Soto JA, Davis JH, Bowen, Anti-Estrogens Antagonize the Anti-Proliferative Effects of Methotrexate in Human Breast Cancer, FASEB – Experimental Biology. National Meeting The FASEB Journal Abstracts, April, New Orleans LA. 2002 16(4):A176.

17) De Soto JA, Southerland WH, Hawkins M, Bowen D., Anti-Estrogen Modulation of High Dose Methotrexate Activity in Human Breast Cancer, National Meeting of the Association of Academic Minority Physicians, Journal of the Association of Academic Minority Physicians Proceedings, Washington D.C., Oct 2001 Volume:12(4):154.

18) De Soto JA, Crouce DT, Famini GR Wilson L. QSAR: The Use of Theoretical Descriptors in Molecular Modeling, American Chemical Society – National Meeting, Anaheim CA, Mar 1995

Articles

19) De Soto JA, Sex and Infertility, The Journal, Oct 31, 2005, pgs C1-2.

20) De Soto JA, ADHD: Do we really have all the facts? The Journal, Dec 5, 2005, pgs C2-C3.

21) De Soto JA, Breast Cancer: The who's and why's, The Journal, Dec 26, 2005, pgs C2-C3.

22) De Soto JA, Facts, causes, concerns of diabetes, The Journal, Feb 27, 2006, pgs C2-C3

23) De Soto JA, Why you should be concerned about the Avian flu, The Journal, Mar 27, 2006, pgs C2-C3.

24) De Soto JA, Recognizing and understanding hypothyroidism, The Journal, May 1, 2006, pgs C2.

25) De Soto JA, The state of our health care, The Journal, May 30, pgs C2, 2006,

26) De Soto JA, Breast feed your baby, The Journal, June 22, 2006, pgs C2-3.

27) De Soto JA, Stem cells can aid in the research of diseases. The Journal, July 31, 2006, pgs C-2-3.

28) De Soto JA, Prostate hyperplasia, The Journal, Aug. 28, 2006, 2006, pgs C1-2.

29) De Soto JA, The future nursing shortage, The Journal Oct 2, 2006, pgs C1-2.

30) De Soto JA, Facts about HIV, The Journal, Nov 27, 2006, pgs C1-2.

31) De Soto JA, Get tested, colon cancer may be prevented, The Journal, Jan 1, 2007, pgs, C-1-2.

32) De Soto JA, Opinion. Commentary: Dr. Joseph De Soto; W.Va. shouldn't force HPV vaccinations. The Charleston Daily Mail, Jan 22, 2007.

33) De Soto JA, Sickle cell anemia, The Journal, Feb 26, 2007 pgs C-1-2.

34) De Soto JA, There may be some good news for MS patients, The Journal, Mar 26, 2007 pgs C1-2.

35) De Soto JA, Post-Traumatic Stress Disorder, The Journal Apr 2, 2007 pgs C1-2.

36) De Soto JA, Hippocratic Oath and what it really means, The Journal Apr 23, 2007 pgs C1-2.

In Progress

37) De Soto JA, Headings V, Deng CX, The selective treatment of hereditary breast cancer in African Americans.

- 38) **De Soto JA**, The sensitization of BRCA2 breast cancer to Paclitaxel with PARP-1 inhibitors.
- 39) **De Soto JA**, Deng CX, Review: The treatment of breast cancer in African American Women.

Invited Lectures & Presentations

- 40) **De Soto JA**, The Diagnosis, Treatment and Prognosis of Hereditary and Sporadic Colon Cancer in African Americans. FBCG National Convention, Outstanding Clinician/Researcher, Riverdale, MD, Nov 25, 2006.
- 41) **De Soto JA**, The Treatment of Refractory Schizoaffective Disorder with a Novel Dopamine & Serotonin Partial Agonist Aripiprazole. National Conference of the National Medical Association, Philadelphia PA, July 25, 2005.
- 42) **De Soto JA**, Deng C-X, Introducing the use of Poly(ADP-ribose) inhibitors PARP1 in the treatment of human breast cancer. La Sierra University, Combined Chairman's Biological and Chemical Guest Lecturer Series, Riverside, Ca. Oct 3, 2005.

Professional Affiliations

- ✚ Resident/Fellow Member, American Medical Association **2007**
- ✚ Active Member, American Association for Cancer Research **2006-current**
- ✚ Associate Member, National Hispanic Medical Association **2006-current**
- ✚ Associate Member, National Medical Association **2005-current**
- ✚ Active Member, American Society for Pharmacology & Exper, Ther. **2005-current**
- ✚ Active Fellow Member, American Institute of Chemist **1996-current**
- ✚ Active Member, American Chemical Society **1995-current**

Activities

- ✚ Homeland Security and Emergency Services Advisory Council **2006-2009**
- ✚ Local Emergency Planning Committee **2006-2009**
- ✚ Physicians for Peace **2007**
- ✚ Eastern Panhandle Pandemic and Emergency Response Table Top Exercise, Medical Response and Treatment Evaluator. Martinsburg WV. June 9, **2006-current**
- ✚ National Institute of Diabetes, Digestive and Kidney Diseases Institutional Review Board. Ad hoc Member. **2006-2007**.
- ✚ The Innocence Project **2006-current**

Awards & Honors

- ✚ The Fellows Award for Research Excellence, The National Institutes of Health **2007**.
- ✚ Berkeley County Commission Certificate of Excellence for Pandemic Flu Preparation **2006**.
- ✚ Named Fellow of the American Institute of Chemists. F.A.I.C **2006**
- ✚ Outstanding Accomplishments in Research and Medicine Award, Howard University College of Medicine. **2005**
- ✚ American Medical Association Foundation Grant. **2005**
- ✚ Marcus Family Grant **2004**
- ✚ Travel grant from the American Society for Pharmacology and Experimental Therapeutics. **2003**
- ✚ Honorable Mention in Science, The National Science Foundation **1998**
- ✚ Ford Foundation pre-doctoral Fellow Award- The National Research Council **1998**
- ✚ The Combat Medic Achievement Award- Commandant of the US Army Medical Corp. **1989**
- ✚ The Commanders Award for Leadership. US Army **1989**

References

- 1) Dr. Chuxia Deng, Chief of Mammalian Genetics, National Institute of Diabetes, Digestive and Kidney Diseases. National Institutes of Health. 301-402-7225.
- 2) Dr. John Tisdale, Principle Investigator and Senior Attending, National Institute of Diabetes, Digestive and Kidney Diseases. National Institutes of Health 301-402-6497
- 3) Aaron Chen, Biologist, Food and Drug Administration, 301- 496-4204
- 4) Layne Deihl J.D. Provost, Mountain State University, 304- 263 4381
- 5) Dr. Diana Foley, Director of Nursing, 304-263 4381
- 6) Dr. William Southerland, Professor of Biochemistry, 202- 806-9711