Stanford



Susan Knox

Associate Professor of Radiation Oncology, Emerita

Radiation Oncology - Radiation Therapy

CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Dr. Susan Knox specializes in the treatment of breast cancer and melanoma, and sees a variety of general radiation oncology patients. She has practiced as a radiation oncologist for more than 25 years.

A primary area of research in Dr. Knox's laboratory is the study of novel therapies (targeted therapies, radiosensitizers, radioprotectors, and biological response modifiers) for the treatment of solid tumors, with a particular focus on prostate cancer, breast cancer and melanoma, using small animal tumor models. Her research is interdisciplinary and spans the study of mechanisms of action at the molecular level to translational studies and early clinical trials. Her drug discovery/development work, and research on innovative therapeutic approaches has resulted in 3 new ongoing clinical trials. A major focus of both her laboratory and clinical research is the use of radiation as a component of in situ tumor vaccine strategies. She has had a long - standing interest in clinical research and has served as a PI on numerous clinical trials and as a member of the Clinical Oncology Study Section. As the Faculty Director of the PRMS for the Stanford Cancer Institute, she oversees the Scientific Review Committee and chairs the Data and Safety Monitoring Committee.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Radiation Oncology - Radiation Therapy
- Member, Bio-X
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Associate Dean for Academic Advising, Stanford University School of Medicine, (2020- present)
- Program Evaluation Committee Member, Department of Radiation Oncology, (2014- present)
- Working Group Member, Society of Nuclear Medicine and Molecular Imaging, (2014- present)
- Committee Member, Stanford University on Health and Safety, (2013-2016)
- Executive Committee Member: Cancer Clinical Trials Office, Stanford Cancer Center, (2011- present)
- Executive Committee Member: Clinical Research Onsight Group, Stanford Cancer Center, (2011- present)

- Department Representative, School of Medicine Faculty Senate, (2011-2016)
- Committee Member, SAMFUND Selection Committee, (2010- present)
- Committee Member, SPARK Committee, (2009- present)
- BioX Program Member, Stanford University, (2008- present)
- Lymphoma Disease Management Group Member, Stanford Cancer Center, (2008- present)
- The Molecular Therapeutics Program, Stanford Cancer Center, (2008- present)
- Committee Member, Committee on Professionalism, Performance and Promotion, (2007- present)
- Committee on the State of Science in Nuclear Medicine, Subcommittee on Targeted Radiotherapy, The National Academies, (2006- present)
- Advisory Board and Training Committee, NIH T32 SCIT CA09695, (2005- present)
- Medical Education Leadership Group, Stanford Cancer Center, (2005- present)
- President, Alumni Association, Stanford School of Medicine, (2005-2007)
- Director, Core: Protocol Review and Monitoring System, Stanford Cancer Center, (2004- present)
- Chair, Data and Safety Monitoring Committee, Stanford Clinical Trials Office, Cancer Center, (2003- present)
- Executive Committee, Clinical Cancer Center, (2003- present)
- Associate Editor, Journal of Clinical Oncology, (2003-2006)
- Assistant Dean for Medical Student Advising, Stanford University School of Medicine, (2002- present)
- Member, Clinical Oncology Study Section, (2001-2004)
- Board of Governers, Stanford Medical Alumni Association, (2000-2007)
- Associate Editor, Radiation Research, (2000-2003)
- Editorial Board Member, Cancer Biotherapy and Radiopharmaceuticals, (1996- present)

HONORS AND AWARDS

- President, Alumni Association, Stanford University School of Medicine (2005-2007)
- Elected Councilor Medicine, Radiation Research Society (2003)
- Charles F. Kettering Selection Committee, General Motors Cancer Research Foundation (2000-2002)
- Board of Governors, Stanford Medical Alumni Association (2000-2008)
- Lazard Faculty Scholar, Lazard Faculty (1992-93)
- Clinical Oncology Career Development Award, American Cancer Society (1991-94)
- Leadership in Education, Stanford University School of Medicine (2008)

PROFESSIONAL EDUCATION

- Post Doc Fellow, Stanford Univ. Hospital , Medical Oncology (1989)
- Medical Intern, UC Davis, California (1986)
- Post-Doc Fellow/Res. Assist., Stanford Univ. Hospital , Medical Oncology (1989)
- MD, Stanford University (1985)
- Post-Doc Res. Immunologist, UC Davis, California , Energy-Related Health Research
- PhD, UC Davis, California (1980)
- AB, UC Berkeley, California, (1974)

LINKS

- https://web.stanford.edu/group/RIT: https://web.stanford.edu/group/RIT

- Personal Web site / Radiation Oncology (Dept) Web site: https://web.stanford.edu/group/RIT
- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

- Radioimmunotherapy (RIT) and Systemically Targeted Radiation Therapy

- Low Dose Rate Effects

- Radioprotective Agents, Growth Factors/Receptors

- Oncogenes, Apoptosis & Radiosensitivity

- Apoptosis and Signal Transduction Pathways

- Effects of Radiation on the Immune Response

- Biological Response Modifiers and Novel Targeted Radiosensitizers

- Non-Hodgkin's Lymphomas

- Mycosis Fungoides

- Breast and Prostate Cancer

- Radiation as a component of Tumor Vaccine Strategies

CLINICAL TRIALS

- Dakin's Solution in Preventing Radiation Dermatitis in Patients With Breast Cancer Undergoing Radiation Therapy, Not Recruiting
- Palliative RT & Anti-PD-1/PD-L1 Checkpoint Blockade in Metastatic Merkel Cell Carcinoma, Not Recruiting
- Phase 2 Study of Bexxar in Relapsed/Refractory DLCL, Not Recruiting
- Pilot Ipilimumab in Stage IV Melanoma Receiving Palliative Radiation Therapy, Not Recruiting
- Pilot Study of the Safety/Efficacy of Combination Checkpoint Blockade + External Beam Radiotherapy in Stage IV Melanoma, Not Recruiting
- Sodium Selenite and Radiation Therapy in Treating Patients With Metastatic Cancer, Not Recruiting
- Study of Bexxar <Tositumomab> Combined With External Beam Radiation Therapy, Not Recruiting
- Study Evaluating Sodium Selenite in Combination With Abiraterone in Castrate Resistant Prostate Cancer Progressing on Abiraterone, Not Specified

Teaching

STANFORD ADVISEES

Academic Advising Dean

Noel Ayoub, Pamela Basto, Benjamin Belai, Arthur Brant, Ryan Brewster, Christopher Calkins, Ritika Dutta, Cordelia Erickson-Davis, Joy He, Vivian Hua, Galym Imanbayev, Lauren Joseph, Emily Keamy-Minor, Lily Kim, Jeffrey Kwong, Steven Losorelli, Pamela Meza, Jung Gi Min, Peter Moon, Justin Norden, Benjamin Ober-Reynolds, Stacie Ong, Tyler Prestwood, Julia Ransohoff, Hannah Rasmussen, Felicia Reinitz, Matthew Schoen, Madeleine Scott, Navika Shukla, Gerald Tiu, Pavin Trinh, Silvia Vaca, Yi Zhang

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (PhD Program)
- Immunology (PhD Program)
- Molecular and Genetic Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **ROCKET: Phase II Randomized, Active-controlled, Multicenter Trial to Assess the Safety and Efficacy of RRx-001 + Irinotecan vs. Single-agent Regorafenib in Third/Fourth Line Colorectal Cancer.** *Clinical colorectal cancer*
  Reid, T. R., Abrouk, N., Caroen, S., Oronsky, B., Stirn, M., Larson, C., Beale, K., Knox, S. J., Fisher, G.
  2022

- **ASTRO's Framework for Radiopharmaceutical Therapy Curriculum Development for Trainees** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  Kiess, A. P., Hobbs, R. F., Bednarz, B., Knox, S. J., Meredith, R., Escorcia, F. E.
  2022; 113 (4): 719-726

- **Basics of Physics and Radiobiology for Radiopharmaceutical Therapies.** *Practical radiation oncology*
  English, K. K., Knox, S., Graves, S. A., Kiess, A. P.
  2022; 12 (4): 289-293

- **ASTRO's Framework for Radiopharmaceutical Therapy Curriculum Development for Trainees.** *International journal of radiation oncology, biology, physics*
  Kiess, A. P., Hobbs, R. F., Bednarz, B., Knox, S. J., Meredith, R., Escorcia, F. E.
  2022

- **Clinical Pharmacokinetics of Oral Sodium Selenite and Dosing Implications in the Treatment of Patients with Metastatic Cancer.** *Drugs in R&D*
  Jayachandran, P., Knox, S. J., Garcia-Cremades, M., Savic, R. M.
  2021

- **The Radiobiology of Radiopharmaceuticals.** *Seminars in radiation oncology*
  Morris, Z. S., Wang, A. Z., Knox, S. J.
  2021; 31 (1): 20–27

- **Locally administered heparin-binding epidermal growth factor-like growth factor reduces radiation-induced oral mucositis in mice.** *Scientific reports*
  Chen, J., Bekale, L. A., Khomtchouk, K. M., Xia, A., Cao, Z., Ning, S., Knox, S. J., Santa Maria, P. L.
  2020; 10 (1): 17327

- **Just eat it: A review of CD47 and SIRP-alpha antagonism.** *Seminars in oncology*
  Oronsky, B., Carter, C., Reid, T., Brinkhaus, F., Knox, S. J.
  2020

- **TGF-Beta: A master immune regulator.** *Expert opinion on therapeutic targets*
  Larson, C., Oronsky, B., Carter, C. A., Oronsky, A., Knox, S. J., Sher, D., Reid, T. R.
  2020

- **A Prospective, Phase 1 Trial of Nivolumab, Ipilimumab, and Radiotherapy in Patients with Advanced Melanoma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
  Postow, M. A., Knox, S. J., Goldman, D. A., Elhanati, Y., Mavinkurve, V., Wong, P., Halpenny, D. F., Reddy, S. A., Vado, K. P., McCabe, D., Ramirez, K. A., Macri, M., Schwarzenberger, et al
  2020

- **Locally advanced rectal cancer: The past, present, and future.** *Seminars in oncology*
  Oronsky, B., Reid, T., Larson, C., Knox, S. J.
  2020

- **Durability of response in metastatic melanoma patients after combined treatment with radiation therapy and ipilimumab.** *Melanoma management*
  Sodji, Q. H., Gutkin, P. M., Swetter, S. M., Reddy, S. A., Hiniker, S. M., Knox, S. J.
  2020; 7 (1): MMT36

- **Development of a biodosimeter for radiation triage using novel blood protein biomarker panels in humans and non-human primates** *INTERNATIONAL JOURNAL OF RADIATION BIOLOGY*
  Balog, R. P., Bacher, R., Chang, P., Greenstein, M., Jammalamadaka, S., Javitz, H., Knox, S. J., Lee, S., Lin, H., Shaler, T., Shura, L., Stein, P., Todd, et al
  2020; 96 (1): 22–34

- **Desperate Times, Desperate Measures: The Case for RRx-001 in the Treatment of COVID-19.** *Seminars in oncology*
  Oronsky, B. n., Knox, S. n., Cabrales, P. n., Oronsky, A. n., Reid, T. R.
  2020

- **Harnessing genome-wide association studies to minimize adverse radiation-induced side effects.** *Radiation oncology journal*
  Benitez, C. M., Knox, S. J.
  2020

- **A Review of Newly Diagnosed Glioblastoma.** *Frontiers in oncology*
  Oronsky, B., Reid, T. R., Oronsky, A., Sandhu, N., Knox, S. J.
  2020; 10: 574012

- **High-fidelity detection and sorting of nanoscale vesicles in viral disease and cancer.** *Journal of extracellular vesicles*
  Morales-Kastresana, A., Musich, T. A., Welsh, J. A., Telford, W., Demberg, T., Wood, J. C., Bigos, M., Ross, C. D., Kachynski, A., Dean, A., Felton, E. J., Van Dyke, J., Tigges, et al
  2019; 8 (1): 1597603

- **INTRADETRUSOR IPSC-DERIVED HUMAN PROGENITOR SMOOTH MUSCLE CELLS IN A ROWETT NUDE RAT MODEL OF RADIATION CYSTITIS**
  Dobberfuhl, A. D., Briggs, M. A., Wallace, S. L., Wen, Y., Zhou, Y., Graves, E. E., Diaz, E. C., Knox, S. J., Chen, B.
  LIPPINCOTT WILLIAMS & WILKINS.2019: E155

- **Outcomes and Characteristics of Patients Treated with Emergent Palliative Radiation Therapy** *PRACTICAL RADIATION ONCOLOGY*
  Grade, M., Koenig, J., Qian, Y., Sandhu, N., Liu, Y., Turner, B., von Eyben, R., Knox, S., Dudley, S.
  2019; 9 (2): E203–E209

- **Development of a biodosimeter for radiation triage using novel blood protein biomarker panels in humans and non-human primates.** *International journal of radiation biology*
  Balog, R. P., Bacher, R., Chang, P., Greenstein, M., Jammalamadaka, S., Javitz, H., Knox, S. J., Lee, S., Lin, H., Shaler, T., Shura, L., Stein, P., Todd, et al
  2019: 1–13

- **High Fidelity Detection and Sorting of Nanoscale Vesicles in Viral Disease and Cancer** *J Extrac Ves*
  Morales-Kastresana, A., Musich, T., Welsh , J. A., Telford , W., Demberg , T., Wood , J., Felton , E., Bigos, M., Ross , C., Kachynski, A., Dean , A., Dyke , J., Tigges, et al
  2019

- **Results from a Phase 1 Study of Sodium Selenite in Combination with Palliative Radiation Therapy in Patients with Metastatic Cancer.** *Translational oncology*
  Knox, S. J., Jayachandran, P. n., Keeling, C. A., Stevens, K. J., Sandhu, N. n., Stamps-DeAnda, S. L., Savic, R. n., Shura, L. n., Buyyounouski, M. K., Grimes, K. n.
  2019; 12 (11): 1525–31

- **Complete Response of Metastatic Melanoma to Local Radiation and Immunotherapy: 6.5 Year Follow-Up.** *Cureus*
  Gutkin, P. M., Hiniker, S. M., Swetter, S. M., Reddy, S. A., Knox, S. J.
  2018; 10 (12): e3723

- **Outcomes and characteristics of patients treated with emergent palliative radiotherapy.** *Practical radiation oncology*
  Grade, M., Koenig, J., Qian, Y., Sandhu, N., Liu, Y., Turner, B., von Eyben, R., Knox, S., Dudley, S.
  2018

- **Complete Response of Metastatic Melanoma to Local Radiation and Immunotherapy: 6.5 Year Follow-Up** *CUREUS*
  Gutkin, P. M., Hiniker, S. M., Swetter, S. M., Reddy, S. A., Knox, S. J.
  2018; 10 (12)

- **INITIAL CLINICAL AND ADVANCED IMAGING OUTCOMES FROM A MULTI-INSTITUTIONAL PHASE I DOSE-ESCALATION TRIAL OF RRX-001 PLUS WHOLE BRAIN RADIATION FOR PATIENTS WITH BRAIN METASTASES**
  Kim, M., Parmar, H., Aryal, M., Schipper, M., Devasia, T., Kesari, S., Morikawa, A., Spratt, D., Junck, L., Hayman, J., Lawrence, T., Tsien, C., Aiken, et al
  OXFORD UNIV PRESS INC.2018: 63

- **Initial Clinical and Advanced Imaging Outcomes from a Multi-Institutional Phase I Dose-Escalation Trial of RRx-001 Plus Whole Brain Radiation for Patients with Brain Metastases**
  Kim, M. M., Parmar, H., Aryal, M. P., Schipper, M., Devasia, T. P., Kesari, S., Morikawa, A., Spratt, D. E., Junck, L., Hayman, J. A., Lawrence, T. S., Tsien, C., Aiken, et al
  ELSEVIER SCIENCE INC.2018: E266

- **Report from the SWOG Radiation Oncology Committee: Research Objectives Workshop 2017** *CLINICAL CANCER RESEARCH*
  Okunieff, P., Casey-Sawicki, K., Lockney, N. A., Hoppe, B. S., Enderling, H., Pinnix, C., Welsh, J., Krishnan, S., Yothers, G., Browns, M., Knox, S., Bristow, R., Spellman, et al
  2018; 24 (15): 3500–3509

- **Phase 1 study to evaluate safety and efficacy of nivolumab (nivo) plus ipilimumab (ipi) plus external beam radiotherapy (RT) in patients with metastatic melanoma.**
  Postow, M. A., Knox, S., Goldman, D., Panageas, K., Halpenny, D., McCabe, D., Macri, M. J., Schwarzenberger, P., Ricciardi, T., Ryan, A., Venhaus, R., Barker, C.
  AMER SOC CLINICAL ONCOLOGY.2018

- **A note on improved statistical approaches to account for pseudoprogression** *CANCER CHEMOTHERAPY AND PHARMACOLOGY*
  Abrouk, N., Oronsky, B., Caroen, S., Ning, S., Knox, S., Peehl, D.
  2018; 81 (3): 621–26

- **Initial clinical and advanced imaging outcomes from a multi-institutional phase I dose-escalation trial of RRX-001 plus whole brain radiation for patients with brain metastases** *Oxford Univ Press Inc.*
  Kim , M.
  2018; 20 (63)

- **The immunomodulatory anticancer agent RRx-001 induces a vaccine-like interferon response through epigenetic induction of viral mimicry**
  Zhao, H., Ning, S., Nolley, R., Scicinski, J., Oronsky, B., Knox, S. J., Peehl, D. M.
  AMER ASSOC CANCER RESEARCH.2017

- **High Dose Gamma Radiation Selectively Reduces GABAA-slow Inhibition.** *Cureus*
  Dagne, B. A., Sunay, M. K., Cayla, N. S., Ouyang, Y., Knox, S. J., Giffard, R. G., Adler, J. R., Maciver, B.
  2017; 9 (3)

- **The immunomodulatory anticancer agent, RRx-001, induces an interferon response through epigenetic induction of viral mimicry** *CLINICAL EPIGENETICS*
  Zhao, H., Ning, S., Nolley, R., Scicinski, J., Oronsky, B., Knox, S. J., Peehl, D. M.
  2017; 9

- **RRx-001: a systemically non-toxic M2-to-M1 macrophage stimulating and prosensitizing agent in Phase II clinical trials** *EXPERT OPINION ON INVESTIGATIONAL DRUGS*
  Oronsky, B., Paulmurugan, R., Foygel, K., Scicinski, J., Knox, S. J., Peehl, D., Zhao, H., Ning, S., Cabrales, P., Summers, T. A., Reid, T. R., Fitch, W. L., Kim, et al
  2017; 26 (1): 109-119

- **Phase I Trial: SABR and Ipilimumab-Letter** *CLINICAL CANCER RESEARCH*
  Hiniker, S. M., Reddy, S. A., Swetter, S. M., Knox, S. J.
  2017; 23 (1): 320

- **High Dose Gamma Radiation Selectively Reduces GABAA-slow Inhibition** *Cureus*
  Dagne, B. A., Sunay, M. K., Cayla, N. S., Ouyang, Y., Knox, S. J., Giffard, R. G., Adler, J. D., MacIver, M. B.
  2017: e1076

- **Alteration of Interneuron Immunoreactivity and Autophagic Activity in Rat Hippocampus after Single High-Dose Whole-Brain Irradiation.** *Cureus*

Ouyang, Y. B., Ning, S. n., Adler, J. R., Maciver, B. n., Knox, S. J., Giffard, R. n.
2017; 9 (6): e1414

- **Phase I Trial: SABR and Ipilimumab-Letter.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
  Hiniker, S. M., Reddy, S. A., Swetter, S. M., Knox, S. J.
  2017; 23 (1): 320
- **A Prospective Clinical Trial Combining Radiation Therapy With Systemic Immunotherapy in Metastatic Melanoma.** *International journal of radiation oncology, biology, physics*
  Hiniker, S. M., Reddy, S. A., Maecker, H. T., Subrahmanyam, P. B., Rosenberg-Hasson, Y., Swetter, S. M., Saha, S., Shura, L., Knox, S. J.
  2016; 96 (3): 578-588
- **RRx-001, A novel dinitroazetidine radiosensitizer** *INVESTIGATIONAL NEW DRUGS*
  Oronsky, B., Scicinski, J., Ning, S., Peehl, D., Oronsky, A., Cabrales, P., Bednarski, M., Knox, S.
  2016; 34 (3): 371-377
- **Merkel cell carcinoma: demographic, clinical, and treatment parameters of prognostic significance** *JOURNAL OF RADIATION ONCOLOGY*
  Fu, M. A., Osmundson, E. C., von Eyben, R., Knox, S. J., Kapp, D. S.
  2016; 5 (2): 205–12
- **Whole Brain Radiotherapy and RRx-001: Two Partial Responses in Radioresistant Melanoma Brain Metastases from a Phase I/II Clinical Trial: A TITE-CRM Phase I/II Clinical Trial.** *Translational oncology*
  Kim, M. M., Parmar, H., Cao, Y., Pramanik, P., Schipper, M., Hayman, J., Junck, L., Mammoser, A., Heth, J., Carter, C. A., Oronsky, A., Knox, S. J., Caroen, et al
  2016; 9 (2): 108-113
- **Rockets, Radiosensitizers, and RRx-001: An Origin Story Part I** *DISCOVERY MEDICINE*
  Oronsky, B., Scicinski, J., Ning, S., Peehl, D., Oronsky, A., Cabrales, P., Bednarski, M., Knox, S.
  2016; 115: 173-180
- **Rockets, radiosensitizers, and RRx-001: an origin story part I.** *Discovery medicine*
  Oronsky, B., Scicinski, J., Ning, S., Peehl, D., Oronsky, A., Cabrales, P., Bednarski, M., Knox, S.
  2016; 21 (115): 173-180
- **Concurrent whole brain radiotherapy and RRx-001 for melanoma brain metastases.** *Neuro-oncology*
  Kim, M. M., Parmar, H. n., Cao, Y. n., Knox, S. J., Oronsky, B. n., Scicinski, J. n., Lawrence, T. S., Lao, C. D.
  2016; 18 (3): 455–56
- **Epigenetic effects of RRx-001: a possible unifying mechanism of anticancer activity.** *Oncotarget*
  Zhao, H., Ning, S., Scicinski, J., Oronsky, B., Knox, S. J., Peehl, D. M.
  2015; 6 (41): 43172-43181
- **NO to cancer: The complex and multifaceted role of nitric oxide and the epigenetic nitric oxide donor, RRx-001** *REDOX BIOLOGY*
  Scicinski, J., Oronsky, B., Ning, S., Knox, S., Peehl, D., Kim, M. M., Langecker, P., Fanger, G.
  2015; 6: 1-8
- **Predictors of clinical response to immunotherapy with or without radiotherapy** *JOURNAL OF RADIATION ONCOLOGY*
  Hiniker, S. M., Maecker, H. T., Knox, S. J.
  2015; 4 (4): 339–45
- **NO to cancer: The complex and multifaceted role of nitric oxide and the epigenetic nitric oxide donor, RRx-001.** *Redox biology*
  Scicinski, J., Oronsky, B., Ning, S., Knox, S., Peehl, D., Kim, M. M., Langecker, P., Fanger, G.
  2015; 6: 1-8
- **RRx-001, a novel first in class epigenetic modulator, "episensitizes" colorectal patients to FOLFIRI: Preliminary resensitization data from the Phase 2 "ROCKET" study**
  Reid, T., Carney, J., Beale, K., Clayton, C., Nguyen, H., Cho-Phan, C., Stirn, M., Ning, S., Knox, S., Oronsky, B., Scicinski, J., Caroen, S., Parker, et al
  AMER ASSOC CANCER RESEARCH.2015

- **Safety and activity of RRx-001 in patients with advanced cancer: a first-in-human, open-label, dose-escalation phase 1 study** *LANCET ONCOLOGY*
  Reid, T., Oronsky, B., Scicinski, J., Scribner, C. L., Knox, S. J., Ning, S., Peehl, D. M., Korn, R., Stirn, M., Carter, C. A., Oronsky, A., Taylor, M. J., Fitch, et al
  2015; 16 (9): 1133-1142

- **Nrf2 activity as a potential biomarker for the pan-epigenetic anticancer agent, RRx-001.** *Oncotarget*
  Ning, S., Sekar, T. V., Scicinski, J., Oronsky, B., Peehl, D. M., Knox, S. J., Paulmurugan, R.
  2015; 6 (25): 21547-21556

- **The Development Of RRx-001, A Novel Nitric-Oxide-Mediated Epigenetically Active Anticancer Agent.** *Redox biology*
  Scicinski, J., Fisher, G., Carter, C., Cho-Phan, C., Kunz, P., Ning, S., Knox, S., Oronsky, B., Caroen, S., Parker, C., Fanger, G., Reid, T.
  2015; 5: 422-?

- **RRx-001: A double action systemically non-toxic epigenetic agent for cancer therapy**
  Zhao, H., Ning, S., Scicinski, J., Oronsky, B., Knox, S., Peehl, D. M.
  AMER ASSOC CANCER RESEARCH.2015

- **From METS to malaria: RRx-001, a multi-faceted anticancer agent with activity in cerebral malaria.** *Malaria journal*
  Yalcin, O., Oronsky, B., Carvalho, L. J., Kuypers, F. A., Scicinski, J., Cabrales, P.
  2015; 14: 218

- **29th Annual meeting of the Society for Immunotherapy of Cancer (SITC)** *JOURNAL FOR IMMUNOTHERAPY OF CANCER*
  Hurwitz, A. A., Lee, S., Knox, S., Kohrt, H., Verdeil, G., Romano, E., Margolin, K., Urba, W. J., Speiser, D. E.
  2015; 3

- **CCR 20th Anniversary Commentary: Radioactive Drones for B-cell Lymphoma** *CLINICAL CANCER RESEARCH*
  Knox, S. J., Levy, R.
  2015; 21 (3): 493–94

- **Predictors of clinical response to immunotherapy with or without radiotherapy.** *Journal of radiation oncology*
  Hiniker, S. M., Maecker, H. T., Knox, S. J.
  2015; 4: 339-345

- **Dose-Escalated, Intratumoral TLR9 Agonist and Low-Dose Radiation Induce Abscopal Effects in Follicular Lymphoma**
  Kohrt, H. E., Chu, J., Brody, J., Czerwinski, D. K., Chester, C., Sadaram, M., Advani, R., Kim, Y. H., Hoppe, R. T., Knox, S. J., Wapnir, I., Tibshirani, R. J., Levy, et al
  AMER SOC HEMATOLOGY.2014

- **Immunotherapy and radiation.** *Seminars in oncology*
  Hiniker, S. M., Knox, S. J.
  2014; 41 (6): 702-713

- **Novel Human Radiation Exposure Biomarker Panel Applicable for Population Triage** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
  Bazan, J. G., Chang, P., Balog, R., D'Andrea, A., Shaler, T., Lin, H., Lee, S., Harrison, T., Shura, L., Schoen, L., Knox, S. J., Cooper, D. E.
  2014; 90 (3): 612-619

- **Novel human radiation exposure biomarker panel applicable for population triage.** *International journal of radiation oncology, biology, physics*
  Bazan, J. G., Chang, P., Balog, R., D'Andrea, A., Shaler, T., Lin, H., Lee, S., Harrison, T., Shura, L., Schoen, L., Knox, S. J., Cooper, D. E.
  2014; 90 (3): 612-9

- **Molecular imaging of RRx-001-induced oxidative stress in Nrf2-luciferase expressing SCC VII tumors in mice**
  Ning, S., Sekar, T., Paulmurugan, R., Scicinski, J., Oronsky, B., Peehl, D., Knox, S. J.
  AMER ASSOC CANCER RESEARCH.2014

- **A phase 1 trial and pharmacokinetic study of RRx-001, a novel ROS-mediated pan-epigenetic agent.**
  Reid, T. R., Oronsky, B., Infante, J. R., Burris, H. A., Scribner, C., Knox, S., Stephens, J. L., Fanger, G., Scicinski, J.
  AMER SOC CLINICAL ONCOLOGY.2014

- **Novel nitric oxide generating compound glycidyl nitrate enhances the therapeutic efficacy of chemotherapy and radiotherapy.** *Biochemical and biophysical research communications*
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