**Curriculum Vitae**

Zeljko Vujaskovic, MD, PhD

Professor, Department of Radiation Oncology

Director, Division of Translational Radiation Sciences

University of Maryland School of Medicine

**Date February, 2016**

**Contact Information**

Business Address: University of Maryland School of Medicine

Department of Radiation Oncology

685 W. Baltimore Street, MSTF 7-00A

Baltimore, MD 21201

Business Phone Number: (410) 706-5139

Fax: (410) 706-2828

Email: zvujaskovic@som.umaryland.edu

Foreign Languages: English (fluent), Croatian (native), Dutch (proficient)

**Education**

1985 M.D., University of Zagreb School of Medicine, Croatia

1994 Ph.D., Colorado State University, Fort Collins, CO

**Post Graduate Education and Training**

1985-1986 Internship, Medical Centre, Karlovac, Croatia

1986-1987 Residency, Military Medical Academy, Belgrade, Serbia

1987-1989 Residency, Medical Centre, Karlovac, Croatia

1989-1990 Fellowship, Medical Oncology, University of Colorado Cancer Center

1990-1994 Post-Doctoral Fellow, Radiological Health Sciences, Colorado State University

**Medical Licensures**

## Active Maryland

## Inactive North Carolina

**Employment History**

**Academic Appointments**

1994-1999 Assistant Professor, Department of Radiotherapy and Radiobiology, University of Groningen School of Medicine, Groningen, The Netherlands

1999-2000 Visiting Assistant Professor, Department of Radiation Oncology, Duke University Medical Center, Durham, NC

2000-2002 Assistant Professor, Department of Radiation Oncology, Duke University Medical Center, Durham, NC

2002-2010 Associate Professor, Department of Radiation Oncology, Duke University Medical Center, Durham, NC

2008-2012 Associate Professor, Department of Pathology, Duke University Medical Center, Durham, NC

2010-2012 Professor, Department of Radiation Oncology, Duke University Medical Center

2012-present Professor, Department of Radiation Oncology, University of Maryland School of Medicine

2012-present Director, Division of Translational Radiation Sciences, Department of Radiation Oncology, UMSOM

2013-present Professor, Greenebaum Cancer Center, University of Maryland

**Professional Society Membership**

1992-Present Radiation Research Society, Education and Training Committee Member

1994-Present American Society for Therapeutic Radiation Oncology

1994-Present Society for Thermal Medicine

2001-Present American Society of Clinical Oncology

**Honors and Awards**

1992 Young Investigator Travel Award, The 6th International Congress on Hyperthermic Oncology, Tucson, Arizona, 1992

2009 R. Wayne Rundles Award, Duke Cancer Center

**Clinical Activities**

**Clinical Expertise**

Radiation Oncology

Hyperthermia

Clinical focus in the area of prostate cancer

Research focus in the area of radiation-induced normal tissue injury

**Scope of Clinical Practice**

2003-present Clinical practice focus on treatment of prostate cancer and GU malignancies

~200 consultants per year

~100 treatments per year

2008-2012 Director of Clinical Hyperthermia program, Duke Medical Center

**Development of Any Clinical Programs**

Developed clinical hyperthermia cancer treatment program, focusing on patients with treatment of chest wall recurrent breast cancer, melanoma, urinary bladder cancer and prostate cancer.

**Administrative Service**

**Institutional Service**

2000-Present Director, Normal Tissue Laboratory, Department of Radiation Oncology, Duke University Medical Center, Durham, NC

2004-2008 Associate Director, General Clinical Research Center, Duke University Medical Center, Durham, NC

2004-2008 Co-Director, Hyperthermia Clinical Program, Department of Radiation Oncology, Duke University Medical Center, Durham, NC

2008-2012 Director, Hyperthermia Clinical Program, Department of Radiation Oncology, Duke University Medical Center, Durham, NC

2012-Present Director, Division of Translational Radiation Sciences, UMSOM

2013-Present Chair, Appointments, Promotions, Tenure Committee (APT-Dean’s Office), UMSOM

2013-Present Department of Radiation Oncology, Appointments, Promotions, Tenure Committee, UMSOM

2013-Present Member, Research Affairs Advisory Committee (RAAC), UMSOM

2015-Present *Ad Hoc* member, Clinical Research Committee (CRC), UM Greenebaum Cancer Center (UMGCC)

**Local and National Service**

**National Service**

1992-Present Society for Thermal Medicine, Governing Council - Councilor-Clinical/Medicine (2009-2011), President (2011-2012),

Finance Committee (2014-present/6 years), Chair, Nominations Committee (2013-present/3 years), Finance Committee (2013-present)

2009-2011 Abstract reviewer, American Society for Therapeutic Radiation Oncology annual meeting

2010 Member, NIH Study Section, NCI PO1 Special Emphasis Panel

2010-present Abstract reviewer, Society for Thermal Medicine

2012 Member, NIH Study Section, NCI PO1 Special Emphasis Panel

Present *Ad Hoc* Reviewer, Cancer Research

Present *Ad Hoc* Reviewer, International Journal of Hyperthermia

Present *Ad Hoc* Reviewer, International Journal of Radiation Oncology Biology Physics

Present *Ad Hoc* Reviewer*,* Radiotherapy and Oncology

Present *Ad Hoc* Reviewer, Radiation Research

Present ICHO (International Congress on Hyperthermic Oncology),

Executive Program Committee

**Teacher Service**

**Undergraduate Student Teaching**

2004-2012 Undergraduate Student Independent Research, Duke University

6, undergraduate student, daily contact for duration of their laboratory involvement

**Medical Student Teaching**

2003-present MS3 and MS4 radiation oncology clinical rotations

**Resident and Fellow Teaching**

2003-present Radiation Oncology resident lectures and GU clinical rotation

**Post-Graduate Teaching**

2008-2012 PhD Committee Member, Duke University Medical Center

3 graduate students in Department of Pathology

3 graduate students in Department of Medical Physics

2008-2012 PhD Committee Chair, Duke University Medical Center

1 graduate student, Department of Pathology

**Grant Review**

Reviewed Grant application submitted to the Dutch Cancer Society (KWF Kankerbestrijding), “Cell therapy to reduce cardio-pulmonary toxicity after thoracic irradiation.” December 20, 2013.

**Grant Support**

**Active Grants**

8/6/12-7/31/15 Principal Investigator: 5%

Project 4: Radiation Protection with SOD Mimetics

NIH U19-AI067796

Total Project: $1,404,000

8/1/12-9/29/15 Principal Investigator: 30%

Radiation/Nuclear Medical Countermeasure Product Development (MCART)

University of Maryland School of Medicine (NIH)

Total Project: $2,187,191

12/1/13-6/30/15 Principal Investigator: 10%

Aeolus Advanced Development of AEOL10150 as a medical countermeasure of pulmonary injury associated with ARS and DEARE

Aeolus Pharmaceuticals, Inc. (BARDA) (Clin001, 005, 007)

Total Project: $2,501,253

5/15/13-4/30/18 Principal Investigator: 10%

Mitigation of radiation-induced pulmonary injury with Nrf2 activator

NIAID/NIH U01 AI107361

Total Project: $2,619,050

4/1/14-9/30/15 Principal Investigator: 5%

Head and Neck Xenograft; Cutaneous Radiation Injury

Stemnion Inc. Research Agreement

Total Project: $ 160,000

7/01/14-6/30/15 Principal Investigator: 5%

*BIO 300 and GCSF: A combination treatment for multiorgan ARS*

NIH/SBIR R41 CA186431

Total Project: $135,362

**Completed Grants**

1990 - 1992Principal Investigator

Colorado Advanced Technology Institute Grant: "Enhanced Tumor Cell Killing with Radiofrequency Induced Ferromagnetic Hyperthermia"

1997 -1999 Principal Investigator

Jan Kornelis De Cock – Foundation Grant: “Measurements of transforming growth factor beta(TGF-β) levels in lung cancer patients treated with chemotherapy and/or radiotherapy”

1998 - 2000 Investigator

Dutch Cancer Society Grant: “Dose escalation study for NSCLC using 3-dimensional conformal radiotherapy with tight treatment margins and functionally optimized radiation treatment plans”

1998 - 2001 Principal Investigator

J.A. Cohen Instituut- IRS Grant: **“**Pulmonary function after localised thoracic irradiation: role of treatment volume, lung region and TGF-β”

2000 - 2001 Principal Investigator

P30 CA14236 - Duke Comprehensive Cancer Center-Discovery Research Group Award: “A Dual Effect of the Novel Syntetic SOD Mimetics in Cancer Therapy”

2000 - 2005 Investigator

NIH CA42745: “Hyperthermia and Perfusion Effects in Cancer Therapy”

2000 - 2001 Principal Investigator

AlzaPharmaceutucals, Inc.: “Assessment of radioprotective effect of amifostine on radiation-induced lung injury”

2001- 2003 Principal Investigator

Varian Biosinergy Inc.: “New methods for prediction of radiation-induced lung injury”

2001 - 2003 Principal Investigator

Aeolus Pharmaceuticals, Inc.: “ Effects of a novel superoxide dismutase mimetics on radiation-induced lung injury and tumor response”

2002 – 2004 Principal Investigator

Amgen Inc.: “Assessment of radioprotective effect of KGF on radiation-induced lung injury”

2002-2005 Investigator

NIH CA69579-06: “Radiation-induced whole and regional lung injury in humans”

#### 2004 – 2005 Co-Principal Investigator

#### Genzyme: “TGF-beta antibodies as a means to reduce radiation induced lung injury”

2002 – 2006 Principal Investigator

NIH 1R44-CA-96245: “Radiation Protection/Cancer Therapy with an SOD Mimetic”

7/1/03-7/31/07 Principal Investigator

Mechanism of hypoxia mediated radiation lung injury

NIH R01-CA98452-04

Total Project Costs: $1,369,800

2004-2007 Principal Investigator

Biogen: “Using Anti-TGFbeta small molecules to prevent radiation therapy (RT) pneumonitis”

2004-2007 Co-Principal Investigator

Amgen: “Preclinical evaluation of Palifyermin (rHuKGF) mediated esophageal radioprotection”

9/26/05-6/30/10 Core C Director, 5% PI: M. Dewhirst

Hyperthermia and Perfusion Effects in Cancer Therapy

NIH 5P01-CA42745

Total Project Costs (Core C): $1,414,757

2005-2007 Co-Principal Investigator

MedImmune: “Preclinical evaluation of Amifostine mediated esophageal radioprotection”

2005-2007 Principal Investigator

Aeolus Pharmaceuticals, Inc.: “Whole Body Irradiation”

2005-2007 Principal Investigator

Aeolus Pharmaceuticals, Inc.: “Antitumor Effect of AEOL 10150 on Non Small Cell Lung Cancer

5/10/06-4/30/10 Co-Investigator, 1% PI: S. Das

Accurate Models for Predicting Radiation-Induced Injury

NIH 5R01-CA115748

Total Project Costs: $145,466

9/30/06-6/30/11 Co-Investigator, 4% PI: Califf

CTSA UL

NIH 5UL1-RR024128

Total Project Costs:

5/8/09-5/710 Principal Investigator, 0%

Elucidation of the role of ROS on vascular structure in radiation induced normal lung injury

Triangle Community Foundation

Total Project Costs: $10,000

6/1/09-9/29/10 Principal Investigator, 20%

Rodent Lung Model-Development and Screening

University of Maryland (NIH)

Total Project Costs: $482,161

9/1/09-8/31/11 Principal Investigator: 20%

AEOLUS Anti-Tumor Non-Small Cell Lung Cancer Study

Aeolus Pharmaceuticals, Inc.

Total Direct Costs: $103,007

10/1/08-8/31/12 Principal Investigator: 10%

AEOL10150 as a mitigator of radiation induced lung injury

Aeolus Pharmaceuticals, Inc.

Total Direct Costs: $112, 179

8/5/09-8/5/12 Co-Investigator: 3% PI: C. Kelsey

Dose Escalation in Esophageal Cancer

Varian Medical Systems, Inc.

9/1/10-7/31/12 Principal Investigator: 20%

Antioxidant mimetic as a mitigator of radiation induced lung injury

NIH 1RC1-AI081290-01

Total Project Costs: $1,008,046

11/1/12-12/31/13 Principal Investigator: 10%

BIO300 prevents pneumonitis

Humanetics Corp., (BARDA)

Total Project Costs: $678,674

8/5/12-8/6/14 Principal Investigator: 5%

Radioprotective effect of nanoceria on neutron and photon induced lung damage

NASA NNX12AJ72G

Total Project: $199,491

**Patents**

1. Crapo, J.D., Day, B.J., Batinic-Haberle,I., Gammans, R., **Vujaskovic, Z**.: Cancer Therapy. August 8, 2002. Patent Nos. CA2436245 & WO2002/060383
2. Crapo, J.D., Day, B.J., Batinic-Haberle,I., Gammans, R., **Vujaskovic, Z**.: Medicament for protection in radiotherapy. March 3, 2004. Patent No. EP1392328 (A2)
3. Viglianti, B. L., Dewhirst, M.W., Macfall, J.R., **Vujaskovic, Z**.: Methods and compositions for blood pool identification, drug distribution quantification and drug release verification. March 25, 2004. Patent No. WO2004/023981
4. Dewhirst, M.W., Rabbani, Z. N., **Vujaskovic, Z**., Kirkpatrick, J. C., Yuan, H.: Transglutaminase-binding peptides and methods of use. May 22, 2008. Patent No. WO2008/06036

**Publications**

**Peer-reviewed journal articles**

1. **Vujaskovic, Z.,** Gillette, S. M., Powers, B. E., LaRue, S. M., Gillette, E. L., Borak, T. B., Scott, R. J., Colacchio, T. A. Intraoperative radiation (IORT) injury to sciatic nerve in a large animal model. Radiotherapy and Oncology: journal of the European Society for Therapeutic Radiology and Oncology. 30:133-139; 1994.

2. **Vujaskovic, Z.,** Gillette, S. M., Powers, B. E., LaRue, S. M., Gillette, E. L., Borak, T. B., Scott, R. J., Ryan, T. P., Colacchio, T. A. Effects of intraoperative hyperthermia on peripheral nerves: neurological and electrophysiological studies. International journal of hyperthermia: the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 10:41-49; 1994.

3. **Vujaskovic, Z.,**McChesney Gillette, S., Powers, B. E., Gillette, E. L., Scott, R. J., Whalen, R. L., Ryan, T. P., Colacchio, T. A. Effects of intraoperative hyperthermia on canine sciatic nerve: histopathologic and morphometric studies. International journal of hyperthermia: the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 10:845-855; 1994.

4. Gillette, E. L., Mahler, P. A., Powers, B. E., Gillette, S. M., **Vujaskovic, Z.** Late radiation injury to muscle and peripheral nerves. International Journal of Radiation Oncology, Biology, Physics. 31:1309-1318; 1995.

5. LaRue, S. M., **Vujaskovic, Z.** Combining radiation therapy with other treatment modalities. Seminars in Veterinary Medicine and Surgery. 10:197-204; 1995.

6. **Vujaskovic, Z.,** Gillette, S. M., Powers, B. E., Thurmond, D. N., Gillette, E. L., Colacchio, T. A. Ultrastructural morphometric analysis of peripheral nerves after intraoperative irradiation. International journal of radiation biology. 68:71-76; 1995.

7. **Vujaskovic, Z.,** Gillette, S. M., Powers, B. E., Stukel, T. A., Larue, S. M., Gillette, E. L., Borak, T. B., Scott, R. J., Weiss, J., Colacchio, T. A. Effects of intraoperative irradiation and intraoperative hyperthermia on canine sciatic nerve: neurologic and electrophysiologic study. International journal of radiation oncology, biology, physics. 34:125-131; 1996.

8. van Waarde, M. A., van Assen, A. J., Kampinga, H. H., Konings, A. W., **Vujaskovic, Z.** Quantification of transforming growth factor-beta in biological material using cells transfected with a plasminogen activator inhibitor-1 promoter-luciferase construct. Analytical biochemistry. 247:45-51; 1997.

9. **Vujaskovic, Z.** Structural and physiological properties of peripheral nerves after intraoperative irradiation. Journal of the peripheral nervous system: JPNS. 2:343-349; 1997.

10. **Vujaskovic, Z.,** Down, J. D., van Waarde, M. A., van Assen, A. J., Szabo, B. G., Konings, A. W. Plasma TGFbeta level in rats after hemithoracic irradiation. Radiotherapy and oncology: journal of the European Society for Therapeutic Radiology and Oncology. 44:41-43; 1997.

11. Sleijfer, S., **Vujaskovic, Z.,** Limburg, P. C., SchraffordtKoops, H., Mulder, N. H. Induction of tumor necrosis factor-alpha as a cause of bleomycin-related toxicity. Cancer. 82:970-974; 1998.

12. Sminia, P., Barten, A. D., van Waarde, M. A., **Vujaskovic, Z.,** van Tienhoven, G. Plasma transforming growth factor beta levels in breast cancer patients. Oncology reports. 5:485-488; 1998.

13. **Vujaskovic, Z.,** Down, J. D., van t' Veld, A. A., Mooyaart, E. L., Meertens, H., Piers, D. A., Szabo, B. G., Konings, A. W. Radiological and functional assessment of radiation-induced lung injury in the rat. Experimental lung research. 24:137-148; 1998.

14. Khouw, I. M., van Wachem, P. B., Plantinga, J. A., **Vujaskovic, Z.,**Wissink, M. J., de Leij, L. F., van Luyn, M. J. TGF-beta and bFGF affect the differentiation of proliferating porcine fibroblasts into myofibroblasts in vitro. Biomaterials. 20:1815-1822; 1999.

15. **Vujaskovic, Z.,** Powers, B. E., Paardekoper, G., Gillette, S. M., Gillette, E. L., Colacchio, T. A. Effects of intraoperative irradiation (IORT) and intraoperative hyperthermia (IOHT) on canine sciatic nerve: histopathological and morphometric studies. International journal of radiation oncology, biology, physics. 43:1103-1109; 1999.

16. Poulson, J. M., Dewhirst, M. W., Gaskin, A. A., **Vujaskovic, Z.,**Samulski, T. V., Prescott, D. M., Meyer, R. E., Page, R. L., Thrall, D. E. Acute pancreatitis associated with administration of a nitric oxide synthase inhibitor in tumor-bearing dogs. In vivo. 14:709-714; 2000.

17. Poulson, J. M., **Vujaskovic, Z.,** Gillette, S. M., Chaney, E. L., Gillette, E. L. Volume and dose-response effects for severe symptomatic pneumonitis after fractionated irradiation of canine lung. International Journal of Radiation Biology. 76:463-468; 2000.

18. Prescott, D. M., Charles, H. C., Poulson, J. M., Page, R. L., Thrall, D. E., **Vujaskovic, Z.,** Dewhirst, M. W. The relationship between intracellular and extracellular pH in spontaneous canine tumors. Clinical cancer research: an official journal of the American Association for Cancer Research. 6:2501-2505; 2000.

19. Van Putten, J. W., Schlosser, N. J., **Vujaskovic, Z.,**Leest, A. H., Groen, H. J. Superior vena cava obstruction caused by radiation induced venous fibrosis. Thorax. 55:245-246; 2000.

20. **Vujaskovic, Z.,**Groen, H. J. TGF-beta, radiation-induced pulmonary injury and lung cancer. International journal of radiation biology. 76:511-516; 2000.

21. **Vujaskovic, Z.,** Marks, L. B., Anscher, M. S. The physical parameters and molecular events associated with radiation-induced lung toxicity. Seminars in radiation oncology. 10:296-307; 2000.

22. **Vujaskovic, Z.,**Poulson, J. M., Gaskin, A. A., Thrall, D. E., Page, R. L., Charles, H. C., MacFall, J. R., Brizel, D. M., Meyer, R. E., Prescott, D. M., Samulski, T. V., Dewhirst, M. W. Temperature-dependent changes in physiologic parameters of spontaneous canine soft tissue sarcomas after combined radiotherapy and hyperthermia treatment. International journal of radiation oncology, biology, physics. 46:179-185; 2000.

23. van Eerde, M. R., Kampinga, H. H., Szabo, B. G., **Vujaskovic, Z.** Comparison of three rat strains for development of radiation-induced lung injury after hemithoracic irradiation. Radiotherapy and oncology: journal of the European Society for Therapeutic Radiology and Oncology. 58:313-316; 2001.

24. **Vujaskovic, Z.,**Anscher, M. S., Feng, Q. F., Rabbani, Z. N., Amin, K., Samulski, T. S., Dewhirst, M. W., Haroon, Z. A. Radiation-induced hypoxia may perpetuate late normal tissue injury. International journal of radiation oncology, biology, physics. 50:851-855; 2001.

25. **Vujaskovic, Z.,**Batinic-Haberle, I., Rabbani, Z. N., Feng, Q. F., Kang, S. K., Spasojevic, I., Samulski, T. V., Fridovich, I., Dewhirst, M. W., Anscher, M. S. A small molecular weight catalytic metalloporphyrin antioxidant with superoxide dismutase (SOD) mimetic properties protects lungs from radiation-induced injury. Free radical biology & medicine. 33:857-863; 2002.

26. **Vujaskovic, Z.,**Feng, Q. F., Rabbani, Z. N., Anscher, M. S., Samulski, T. V., Brizel, D. M. Radioprotection of lungs by amifostine is associated with reduction in profibrogenic cytokine activity. Radiation research. 157:656-660; 2002.

27. **Vujaskovic, Z.,**Feng, Q. F., Rabbani, Z. N., Samulski, T. V., Anscher, M. S., Brizel, D. M. Assessment of the protective effect of amifostine on radiation-induced pulmonary toxicity. Experimental lung research. 28:577-590; 2002.

28. Kang, S. K., Rabbani, Z. N., Folz, R. J., Golson, M. L., Huang, H., Yu, D., Samulski, T. S., Dewhirst, M. W., Anscher, M. S**., Vujaskovic, Z.** Overexpression of extracellular superoxide dismutase protects mice from radiation-induced lung injury. International journal of radiation oncology, biology, physics. 57:1056-1066; 2003.

29. Marks, L. B., Yu, X., **Vujaskovic, Z.,** Small, W., Jr., Folz, R., Anscher, M. S. Radiation-induced lung injury. Seminars in radiation oncology. 13:333-345; 2003.

30. Rabbani, Z. N., Anscher, M. S., Zhang, X., Chen, L., Samulski, T. V., Li, C. Y., **Vujaskovic, Z.** Soluble TGFbeta type II receptor gene therapy ameliorates acute radiation-induced pulmonary injury in rats. International journal of radiation oncology, biology, physics. 57:563-572; 2003.

31. **Vujaskovic, Z.,** Rosen, E. L., Blackwell, K. L., Jones, E. L., Brizel, D. M., Prosnitz, L. R., Samulski, T. V., Dewhirst, M. W. Ultrasound guided pO2 measurement of breast cancer reoxygenation after neoadjuvant chemotherapy and hyperthermia treatment. International journal of hyperthermia: the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 19:498-506; 2003.

32. Chen, L., Brizel, D. M., Rabbani, Z. N., Samulski, T. V., Farrell, C. L., Larrier, N., Anscher, M. S., **Vujaskovic, Z.**The protective effect of recombinant human keratinocyte growth factor on radiation-induced pulmonary toxicity in rats. International journal of radiation oncology, biology, physics. 60:1520-1529; 2004.

33. Jones, E. L., Prosnitz, L. R., Dewhirst, M. W., Marcom, P. K., Hardenbergh, P. H., Marks, L. B., Brizel, D. M., **Vujaskovic, Z.**Thermochemoradiotherapy improves oxygenation in locally advanced breast cancer. Clinical cancer research: an official journal of the American Association for Cancer Research. 10:4287-4293; 2004.

34. Kim, S. J., Rabbani, Z. N., Vollmer, R. T., Schreiber, E. G., Oosterwijk, E., Dewhirst, M. W., **Vujaskovic, Z.,** Kelley, M. J. Carbonic anhydrase IX in early-stage non-small cell lung cancer. Clinical cancer research: an official journal of the American Association for Cancer Research. 10:7925-7933; 2004.

35. Moeller, B. J., Cao, Y., **Vujaskovic, Z.,** Li, C. Y., Haroon, Z. A., Dewhirst, M. W. The relationship between hypoxia and angiogenesis.Seminars in radiation oncology. 14:215-221; 2004.

36. Poulson, J. M., **Vujaskovic, Z.,** Gaskin, A. A., Larue, S. M., Meyer, R. E., Prescott, D. M., Samulski, T. V., Thrall, D. E., Dewhirst, M. W. Effect of calcitonin gene related peptide vs sodium nitroprusside to increase temperature in spontaneous canine tumours during local hyperthermia. International journal of hyperthermia: the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 20:477-489; 2004.

37. **Vujaskovic, Z.,** Song, C. W. Physiological mechanisms underlying heat-induced radiosensitization. International journal of hyperthermia: the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 20:163-174; 2004.

38. Ward, E. R., Hedlund, L. W., Kurylo, W. C., Wheeler, C. T., Cofer, G. P., Dewhirst, M. W., Marks, L. B., **Vujaskovic, Z.** Proton and hyperpolarized helium magnetic resonance imaging of radiation-induced lung injury in rats. International journal of radiation oncology, biology, physics. 58:1562-1569; 2004.

39. Zhang, X., Kon, T., Wang, H., Li, F., Huang, Q., Rabbani, Z. N., Kirkpatrick, J. P., **Vujaskovic, Z.,** Dewhirst, M. W., Li, C. Y. Enhancement of hypoxia-induced tumor cell death in vitro and radiation therapy in vivo by use of small interfering RNA targeted to hypoxia-inducible factor-1alpha. Cancer research. 64:8139-8142; 2004.

40. Anscher, M. S., Chen, L., Rabbani, Z., Kang, S., Larrier, N., Huang, H., Samulski, T. V., Dewhirst, M. W., Brizel, D. M., Folz, R. J., **Vujaskovic, Z.** Recent progress in defining mechanisms and potential targets for prevention of normal tissue injury after radiation therapy. International journal of radiation oncology, biology, physics. 62:255-259; 2005.

41. Anscher, M. S., **Vujaskovic, Z.** Mechanisms and potential targets for prevention and treatment of normal tissue injury after radiation therapy. Seminars in oncology. 32:S86-91; 2005.

42. Dewhirst, M. W., Poulson, J. M., Yu, D., Sanders, L., Lora-Michiels, M., **Vujaskovic, Z.,** Jones, E. L., Samulski, T. V., Powers, B. E., Brizel, D. M., Prosnitz, L. R., Charles, H. C. Relation between pO2, 31P magnetic resonance spectroscopy parameters and treatment outcome in patients with high-grade soft tissue sarcomas treated with thermoradiotherapy. International journal of radiation oncology, biology, physics. 61:480-491; 2005.

43. Dewhirst, M. W., **Vujaskovic, Z.,** Jones, E., Thrall, D. Re-setting the biologic rationale for thermal therapy. International journal of hyperthermia: the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 21:779-790; 2005.

44. Hardee, M. E., Kirkpatrick, J. P., Shan, S., Snyder, S. A., **Vujaskovic, Z.,**Rabbani, Z. N., Dewhirst, M. W., Blackwell, K. L. Human recombinant erythropoietin (rEpo) has no effect on tumour growth or angiogenesis. British journal of cancer. 93:1350-1355; 2005.

45. Hart, J. P., Broadwater, G., Rabbani, Z., Moeller, B. J., Clough, R., Huang, D., Sempowski, G. A., Dewhirst, M., Pizzo, S. V., **Vujaskovic, Z.,**Anscher, M. S. Cytokine profiling for prediction of symptomatic radiation-induced lung injury. International journal of radiation oncology, biology, physics. 63:1448-1454; 2005.

46. Howard, B. A., Furumai, R., Campa, M. J., Rabbani, Z. N., **Vujaskovic, Z.,** Wang, X. F., Patz, E. F., Jr. Stable RNA interference-mediated suppression of cyclophilin A diminishes non-small-cell lung tumor growth in vivo. Cancer research. 65:8853-8860; 2005.

47. Jones, E. L., Oleson, J. R., Prosnitz, L. R., Samulski, T. V., **Vujaskovic, Z.,** Yu, D., Sanders, L. L., Dewhirst, M. W. Randomized trial of hyperthermia and radiation for superficial tumors. Journal of clinical oncology: official journal of the American Society of Clinical Oncology. 23:3079-3085; 2005.

48. Jones, E. L., Prosnitz, L. R., Dewhirst, M. W., **Vujaskovic, Z.,**Samulski, T. V., Oleson, J. R., Yu, D., Myerson, R. J., Moros, E. G., Hurwitz, M. D., Bull, J. M. In regard to Vasanathan et al. (Int J RadiatOncolBiolPhys 2005;61:145-153). International journal of radiation oncology, biology, physics. 63:644; 2005.

49. Kim, S. J., Rabbani, Z. N., Dewhirst, M. W., **Vujaskovic, Z.,** Vollmer, R. T., Schreiber, E. G., Oosterwijk, E., Kelley, M. J. Expression of HIF-1alpha, CA IX, VEGF, and MMP-9 in surgically resected non-small cell lung cancer. Lung cancer. 49:325-335; 2005.

50. Moeller, B. J., Batinic-Haberle, I., Spasojevic, I., Rabbani, Z. N., Anscher, M. S., **Vujaskovic, Z.,** Dewhirst, M. W. A manganese porphyrin superoxide dismutase mimetic enhances tumor radioresponsiveness. International journal of radiation oncology, biology, physics. 63:545-552; 2005.

51. Rabbani, Z. N., Anscher, M. S., Folz, R. J., Archer, E., Huang, H., Chen, L., Golson, M. L., Samulski, T. S., Dewhirst, M. W., **Vujaskovic, Z.** Overexpression of extracellular superoxide dismutase reduces acute radiation induced lung toxicity. BMC cancer. 5:59; 2005.

52. Schroeder, T., Yuan, H., Viglianti, B. L., Peltz, C., Asopa, S., **Vujaskovic, Z.,** Dewhirst, M. W. Spatial heterogeneity and oxygen dependence of glucose consumption in R3230Ac and fibrosarcomas of the Fischer 344 rat. Cancer research. 65:5163-5171; 2005.

53. Anscher, M. S., Garst, J., Marks, L. B., Larrier, N., Dunphy, F., Herndon, J. E., 2nd, Clough, R., Marino, C., **Vujaskovic, Z.,** Zhou, S., Dewhirst, M. W., Shafman, T. D., Crawford, J. Assessing the ability of the antiangiogenic and anticytokine agent thalidomide to modulate radiation-induced lung injury. International journal of radiation oncology, biology, physics. 66:477-482; 2006.

54. Anscher, M. S., Thrasher, B., Rabbani, Z., Teicher, B., **Vujaskovic, Z.**Antitransforming growth factor-beta antibody 1D11 ameliorates normal tissue damage caused by high-dose radiation. International journal of radiation oncology, biology, physics. 65:876-881; 2006.

55. Batinic-Haberle, I., Spasojevic, I., Stevens, R. D., Bondurant, B., Okado-Matsumoto, A., Fridovich, I., **Vujaskovic, Z.,** Dewhirst, M. W. New PEG-ylatedMn(III) porphyrins approaching catalytic activity of SOD enzyme. Dalton transactions. 617-624; 2006.

56. Dressman, H. K., Hans, C., Bild, A., Olson, J. A., Rosen, E., Marcom, P. K., Liotcheva, V. B., Jones, E. L., **Vujaskovic, Z.,** Marks, J., Dewhirst, M. W., West, M., Nevins, J. R., Blackwell, K. Gene expression profiles of multiple breast cancer phenotypes and response to neoadjuvant chemotherapy. Clinical cancer research: an official journal of the American Association for Cancer Research. 12:819-826; 2006.

57. Hardee, M. E., Rabbani, Z. N., Arcasoy, M. O., Kirkpatrick, J. P., **Vujaskovic, Z.,** Dewhirst, M. W., Blackwell, K. L. Erythropoietin inhibits apoptosis in breast cancer cells via an Akt-dependent pathway without modulating in vivo chemosensitivity. Molecular cancer therapeutics. 5:356-361; 2006.

58. Jackson, I. L., Batinic-Haberle, I., Sonveaux, P., Dewhirst, M. W., **Vujaskovic, Z.** ROS production and angiogenic regulation by macrophages in response to heat therapy. International journal of hyperthermia: the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 22:263-273; 2006.

59. Jones, E., Alvarez Secord, A., Prosnitz, L. R., Samulski, T. V., Oleson, J. R., Berchuck, A., Clarke-Pearson, D., Soper, J., Dewhirst, M. W., **Vujaskovic, Z.** Intra-peritoneal cisplatin and whole abdomen hyperthermia for relapsed ovarian carcinoma. International journal of hyperthermia: the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 22:161-172; 2006.

60. Jones, E., Thrall, D., Dewhirst, M. W., **Vujaskovic, Z.** Prospective thermal dosimetry: the key to hyperthermia's future. International journal of hyperthermia: the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 22:247-253; 2006.

61. Lora-Michiels, M., Yu, D., Sanders, L., Poulson, J. M., Azuma, C., Case, B., **Vujaskovic, Z.,** Thrall, D. E., Charles, H. C., Dewhirst, M. W. Extracellular pH and P-31 magnetic resonance spectroscopic variables are related to outcome in canine soft tissue sarcomas treated with thermoradiotherapy. Clinical Cancer Research: an official journal of the American Association for Cancer Research. 12:5733-5740; 2006.

62. Mi, J., Zhang, X., Rabbani, Z. N., Liu, Y., Su, Z., **Vujaskovic, Z.,**Kontos, C. D., Sullenger, B. A., Clary, B. M. H1 RNA polymerase III promoter-driven expression of an RNA aptamer leads to high-level inhibition of intracellular protein activity. Nucleic acids research. 34:3577-3584; 2006.

63. Ponce, A. M., **Vujaskovic, Z.,** Yuan, F., Needham, D., Dewhirst, M. W. Hyperthermia mediated liposomal drug delivery. International journal of hyperthermia : the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 22:205-213; 2006.

64. Vlahovic, G., Rabbani, Z. N., Herndon, J. E., 2nd, Dewhirst, M. W., **Vujaskovic, Z.** Treatment with Imatinib in NSCLC is associated with decrease of phosphorylated PDGFR-beta and VEGF expression, decrease in interstitial fluid pressure and improvement of oxygenation. British Journal of Cancer. 95:1013-1019; 2006.

65. Fleckenstein, K., Gauter-Fleckenstein, B., Jackson, I. L., Rabbani, Z., Anscher, M., **Vujaskovic, Z.** Using biological markers to predict risk of radiation injury. Seminars in Radiation Oncology. 17:89-98; 2007.

66. Fleckenstein, K., Zgonjanin, L., Chen, L., Rabbani, Z., Jackson, I. L., Thrasher, B., Kirkpatrick, J., Foster, W. M., **Vujaskovic, Z**. Temporal onset of hypoxia and oxidative stress after pulmonary irradiation. International journal of radiation oncology, biology, physics. 68:196-204; 2007.

67. Hardee, M. E., Cao, Y., Fu, P., Jiang, X., Zhao, Y., Rabbani, Z. N., **Vujaskovic, Z.,** Dewhirst, M. W., Arcasoy, M. O. Erythropoietin blockade inhibits the induction of tumor angiogenesis and progression. PLOS one. 2:e549; 2007.

68. Jackson, I. L., Chen, L., Batinic-Haberle, I., **Vujaskovic, Z.** Superoxide dismutase mimetic reduces hypoxia-induced O2\*-, TGF-beta, and VEGF production by macrophages. Free radical research. 41:8-14; 2007.

69. Li, F., Sonveaux, P., Rabbani, Z. N., Liu, S., Yan, B., Huang, Q., **Vujaskovic, Z.,** Dewhirst, M. W., Li, C. Y. Regulation of HIF-1alpha stability through S-nitrosylation. Molecular cell. 26:63-74; 2007.

70. Oldham, M., Sakhalkar, H., Wang, Y. M., Guo, P., Oliver, T., Bentley, R., **Vujaskovic, Z.,** Dewhirst, M. Three-dimensional imaging of whole rodent organs using optical computed and emission tomography. Journal of biomedical optics.12:014009; 2007.

71. Rabbani, Z. N., Batinic-Haberle, I., Anscher, M. S., Huang, J., Day, B. J., Alexander, E., Dewhirst, M. W., **Vujaskovic, Z.** Long-term administration of a small molecular weight catalytic metalloporphyrin antioxidant, AEOL 10150, protects lungs from radiation-induced injury. International journal of radiation oncology, biology, physics. 67:573-580; 2007.

72. Rabbani, Z. N., Salahuddin, F. K., Yarmolenko, P., Batinic-Haberle, I., Thrasher, B. A., Gauter-Fleckenstein, B., Dewhirst, M. W., Anscher, M. S., **Vujaskovic, Z.** Low molecular weight catalytic metalloporphyrin antioxidant AEOL 10150 protects lungs from fractionated radiation. Free radical research. 41:1273-1282; 2007.

73. Vlahovic, G., Ponce, A. M., Rabbani, Z., Salahuddin, F. K., Zgonjanin, L., Spasojevic, I., **Vujaskovic, Z.,** Dewhirst, M. W. Treatment with imatinib improves drug delivery and efficacy in NSCLC xenografts. British journal of cancer. 97:735-740; 2007.

74. **Vujaskovic, Z.,** Thrasher, B. A., Jackson, I. L., Brizel, M. B., Brizel, D. M. Radioprotective effects of amifostine on acute and chronic esophageal injury in rodents. International journal of radiation oncology, biology, physics. 69:534-540; 2007.

75. Willett, C. G., Duda, D. G., di Tomaso, E., Boucher, Y., Czito, B. G., **Vujaskovic, Z.,**Vlahovic, G., Bendell, J., Cohen, K. S., Hurwitz, H. I., Bentley, R., Lauwers, G. Y., Poleski, M., Wong, T. Z., Paulson, E., Ludwig, K. A., Jain, R. K. Complete pathological response to bevacizumab and chemoradiation in advanced rectal cancer. Nature clinical practice. Oncology. 4:316-321; 2007.

76. Anscher, M. S., Thrasher, B., Zgonjanin, L., Rabbani, Z. N., Corbley, M. J., Fu, K., Sun, L., Lee, W. C., Ling, L. E., **Vujaskovic, Z.** Small molecular inhibitor of transforming growth factor-beta protects against development of radiation-induced lung injury. International journal of radiation oncology, biology, physics. 71:829-837; 2008.

77. Gauter-Fleckenstein, B., Fleckenstein, K., Owzar, K., Jiang, C., Batinic-Haberle, I., **Vujaskovic, Z.** Comparison of two Mnporphyrin-based mimics of superoxide dismutase in pulmonary radioprotection. Free radical biology & medicine. 44:982-989; 2008.

78. Ghafoori, P., Marks, L. B., **Vujaskovic, Z.,** Kelsey, C. R. Radiation-induced lung injury. Assessment, management, and prevention. Oncology. 22:37-47; discussion 52-33; 2008.

79. Kirkpatrick, J. P., Rabbani, Z. N., Bentley, R. C., Hardee, M. E., Karol, S., Meyer, J., Oosterwijk, E., Havrilesky, L., Secord, A. A., **Vujaskovic, Z.,** Dewhirst, M. W., Jones, E. L. Elevated CAIX Expression is Associated with an Increased Risk of Distant Failure in Early-Stage Cervical Cancer. Biomarker insights. 3:45-55; 2008.

80. Sugahara, T., van der Zee, J., Kampinga, H. H., **Vujaskovic, Z.,** Kondo, M., Ohnishi, T., Li, G., Park, H. J., Leeper, D. B., Ostapenko, V., Repasky, E. A., Watanabe, M., Song, C. W. Kadota Fund International Forum 2004. Application of thermal stress for the improvement of health, 15-18 June 2004, Awaji Yumebutai International Conference Center, Awaji Island, Hyogo, Japan. Final report. Int J Hyperthermia: the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 24:123-140; 2008.

81. van der Zee, J., **Vujaskovic, Z.,** Kondo, M., Sugahara, T. The Kadota Fund International Forum 2004--clinical group consensus. International journal of hyperthermia : the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 24:111-122; 2008.

82. Craciunescu, O. I., Blackwell, K. L., Jones, E. L., Macfall, J. R., Yu, D., **Vujaskovic, Z**., Wong, T. Z., Liotcheva, V., Rosen, E. L., Prosnitz, L. R., Samulski, T. V., Dewhirst, M. W. DCE-MRI parameters have potential to predict response of locally advanced breast cancer patients to neoadjuvant chemotherapy and hyperthermia: a pilot study. International journal of hyperthermia : the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 25:405-415; 2009.

83. Craciunescu, O. I., Stauffer, P. R., Soher, B. J., Wyatt, C. R., Arabe, O., Maccarini, P., Das, S. K., Cheng, K. S., Wong, T. Z., Jones, E. L., Dewhirst, M. W., **Vujaskovic, Z.,**MacFall, J. R. Accuracy of real time noninvasive temperature measurements using magnetic resonance thermal imaging in patients treated for high grade extremity soft tissue sarcomas. Medical Physics. 36:4848-4858; 2009.

84. Koontz, B. F., **Vujaskovic, Z.** Review: alcohol and other factors related to late prostate radiation injury. Clinical advances in hematology &oncology : H&O. 7:262; 2009.

85. Kos, I., Reboucas, J. S., DeFreitas-Silva, G., Salvemini, D., **Vujaskovic, Z.,** Dewhirst, M. W., Spasojevic, I., Batinic-Haberle, I. Lipophilicity of potent porphyrin-based antioxidants: comparison of ortho and meta isomers of Mn(III) N-alkylpyridylporphyrins. Free radical biology & medicine. 47:72-78; 2009.

86. Rabbani, Z. N., Spasojevic, I., Zhang, X., Moeller, B. J., Haberle, S., Vasquez-Vivar, J., Dewhirst, M. W., Vujaskovic, Z., Batinic-Haberle, I. Antiangiogenic action of redox-modulating Mn(III) meso-tetrakis(N-ethylpyridinium-2-yl)porphyrin, MnTE-2-PyP(5+), via suppression of oxidative stress in a mouse model of breast tumor. Free radical biology & medicine. 47:992-1004; 2009.

87. Reboucas, J. S., Kos, I., **Vujaskovic, Z.,**Batinic-Haberle, I. Determination of residual manganese in Mnporphyrin-based superoxide dismutase (SOD) and peroxynitritereductase mimics. Journal of Pharmaceutical and Biomedical Analysis. 50:1088-1091; 2009.

88. Viglianti, B. L., Lora-Michiels, M., Poulson, J. M., Lan, L., Yu, D., Sanders, L., Craciunescu, O., **Vujaskovic, Z.,** Thrall, D. E., Macfall, J., Charles, C. H., Wong, T., Dewhirst, M. W. Dynamic contrast-enhanced magnetic resonance imaging as a predictor of clinical outcome in canine spontaneous soft tissue sarcomas treated with thermoradiotherapy. Clinical Cancer Research : an official journal of the American Association for Cancer Research. 15:4993-5001; 2009.

89. Willett, C. G., Duda, D. G., di Tomaso, E., Boucher, Y., Ancukiewicz, M., Sahani, D. V., Lahdenranta, J., Chung, D. C., Fischman, A. J., Lauwers, G. Y., Shellito, P., Czito, B. G., Wong, T. Z., Paulson, E., Poleski, M., **Vujaskovic, Z.,** Bentley, R., Chen, H. X., Clark, J. W., Jain, R. K. Efficacy, safety, and biomarkers of neoadjuvantbevacizumab, radiation therapy, and fluorouracil in rectal cancer: a multidisciplinary phase II study. Journal of clinical oncology : official journal of the American Society of Clinical Oncology. 27:3020-3026; 2009.

90. Craciunescu, O. I., Thrall, D. E., **Vujaskovic, Z.,** Dewhirst, M. W. Magnetic resonance imaging: a potential tool in assessing the addition of hyperthermia to neoadjuvant therapy in patients with locally advanced breast cancer. International journal of hyperthermia : the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 26:625-637; 2010.

91. Dewhirst, M. W., Thrall, D. E., Palmer, G., Schroeder, T., **Vujaskovic, Z.,** Cecil Charles, H., Macfall, J., Wong, T. Utility of functional imaging in prediction or assessment of treatment response and prognosis following thermotherapy. International journal of hyperthermia : the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 26:283-293; 2010.

92. Gauter-Fleckenstein, B., Fleckenstein, K., Owzar, K., Jiang, C., Reboucas, J. S., Batinic-Haberle, I., **Vujaskovic, Z.** Early and late administration of MnTE-2-PyP5+ in mitigation and treatment of radiation-induced lung damage. Free Radical Biology & Medicine. 48:1034-1043; 2010.

93. Issels, R. D., Lindner, L. H., Verweij, J., Wust, P., Reichardt, P., Schem, B. C., Abdel-Rahman, S., Daugaard, S., Salat, C., Wendtner, C. M., **Vujaskovic, Z.,**Wessalowski, R., Jauch, K. W., Durr, H. R., Ploner, F., Baur-Melnyk, A., Mansmann, U., Hiddemann, W., Blay, J. Y., Hohenberger, P. Neo-adjuvant chemotherapy alone or with regional hyperthermia for localised high-risk soft-tissue sarcoma: a randomised phase 3 multicentre study. The Lancet Oncology. 11:561-570; 2010.

94. Jackson, I. L., **Vujaskovic, Z.,** Down, J. D. Revisiting strain-related differences in radiation sensitivity of the mouse lung: recognizing and avoiding the confounding effects of pleural effusions. Radiation Research. 173:10-20; 2010.

95. Kim, S. J., Rabbani, Z. N., Dong, F., Vollmer, R. T., Schreiber, E. G., Dewhirst, M. W., **Vujaskovic, Z**., Kelley, M. J. Phosphorylated epidermal growth factor receptor and cyclooxygenase-2 expression in localized non-small cell lung cancer. Medical Oncology. 27:91-97; 2010.

96. Kimura, M., Rabbani, Z., Mouraviev, V., Tsivian, M., Caso, J., Satoh, T., Baba, S., **Vujaskovic, Z**., Baust, J. M., Baust, J. G., Polascik, T. J. Role of vitamin D(3) as a sensitizer to cryoablation in a murine prostate cancer model: preliminary in vivo study. Urology. 76:764 e714-720; 2010.

97. Kimura, M., Rabbani, Z., Mouraviev, V., Tsivian, M., **Vujaskovic, Z.,** Satoh, T., Baba, S., Baust, J. M., Baust, J. G., Polascik, T. J. Morphology of hypoxia following cryoablation in a prostate cancer murine model: its relationship to necrosis, apoptosis and, microvessel density. Cryobiology. 61:148-154; 2010.

98. Li, T., Zhu, X., Thongphiew, D., Lee, W. R., **Vujaskovic, Z.,** Wu, Q., Yin, F. F., Wu, Q. J. On-line adaptive radiation therapy: feasibility and clinical study. Journal of Oncology.2010:407236; 2010.

99. Rabbani, Z. N., Mi, J., Zhang, Y., Delong, M., Jackson, I. L., Fleckenstein, K., Salahuddin, F. K., Zhang, X., Clary, B., Anscher, M. S., **Vujaskovic, Z.** Hypoxia inducible factor 1alpha signaling in fractionated radiation-induced lung injury: role of oxidative stress and tissue hypoxia. Radiation Research. 173:165-174; 2010.

100. Rampersaud, E. N., **Vujaskovic, Z.,** Inman, B. A. Hyperthermia as a treatment for bladder cancer. Oncology. 24:1149-1155; 2010.

101. Stauffer, P. R., Maccarini, P., Arunachalam, K., Craciunescu, O., Diederich, C., Juang, T., Rossetto, F., Schlorff, J., Milligan, A., Hsu, J., Sneed, P., **Vujaskovic, Z.** Conformal microwave array (CMA) applicators for hyperthermia of diffuse chest wall recurrence. International journal of hyperthermia: the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 26:686-698; 2010.

102. **Vujaskovic, Z.,** Kim, D. W., Jones, E., Lan, L., McCall, L., Dewhirst, M. W., Craciunescu, O., Stauffer, P., Liotcheva, V., Betof, A., Blackwell, K. A phase I/II study of neoadjuvant liposomal doxorubicin, paclitaxel, and hyperthermia in locally advanced breast cancer. International journal of hyperthermia: the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 26:514-521; 2010.

103. Yakovlev, V. A., Rabender, C. S., Sankala, H., Gauter-Fleckenstein, B., Fleckenstein, K., Batinic-Haberle, I., Jackson, I., **Vujaskovic, Z.,**Anscher, M. S., Mikkelsen, R. B., Graves, P. R. Proteomic analysis of radiation-induced changes in rat lung: Modulation by the superoxide dismutase mimetic MnTE-2-PyP(5+). Int J Radiation Oncology, Biology, Physics. 78:547-554; 2010.

104. Zagar, T. M., Higgins, K. A., Miles, E. F., **Vujaskovic, Z.,** Dewhirst, M. W., Clough, R. W., Prosnitz, L. R., Jones, E. L. Durable palliation of breast cancer chest wall recurrence with radiation therapy, hyperthermia, and chemotherapy. Radiotherapy and oncology: journal of the European Society for Therapeutic Radiology and Oncology. 97:535-540; 2010.

105. Zagar, T. M., Oleson, J. R., **Vujaskovic, Z.,** Dewhirst, M. W., Craciunescu, O. I., Blackwell, K. L., Prosnitz, L. R., Jones, E. L. Hyperthermia for locally advanced breast cancer. International journal of hyperthermia: the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 26:618-624; 2010.

106. Zagar, T. M., Oleson, J. R., **Vujaskovic, Z.,** Dewhirst, M. W., Craciunescu, O. I., Blackwell, K. L., Prosnitz, L. R., Jones, E. L. Hyperthermia combined with radiation therapy for superficial breast cancer and chest wall recurrence: a review of the randomised data. International journal of hyperthermia: the official journal of European Society for Hyperthermic Oncology, North American Hyperthermia Group. 26:612-617; 2010.

107. Batinic-Haberle, I., Rajic, Z., Tovmasyan, A., Reboucas, J. S., Ye, X., Leong, K. W., Dewhirst, M. W., **Vujaskovic, Z**., Benov, L., Spasojevic, I. Diverse functions of cationic Mn(III) N-substituted pyridylporphyrins, recognized as SOD mimics. Free Radical Biology & Medicine. **51**:1035-1053; 2011.

108. Beketic-Oreskovic, L., Ozretic, P., Rabbani, Z. N., Jackson, I. L., Sarcevic, B., Levanat, S., Maric, P., Babic, I., **Vujaskovic, Z.** Prognostic significance of carbonic anhydrase IX (CA-IX), endoglin (CD105) and 8-hydroxy-2'-deoxyguanosine (8-OHdG) in breast cancer patients. Pathology Oncology Research: POR. **17**:593-603; 2011.

109. Jackson, I. L., **Vujaskovic, Z.,** Down, J. D. A further comparison of pathologies after thoracic irradiation among different mouse strains: finding the best preclinical model for evaluating therapies directed against radiation-induced lung damage. Radiation Research. 175:510-518; 2011.

110. Kimura, M., Yan, H., Rabbani, Z., Satoh, T., Baba, S., Yin, F. F., Polascik, T. J., Donatucci, C. F., **Vujaskovic, Z.,** Koontz, B. F. Radiation-induced erectile dysfunction using prostate-confined modern radiotherapy in a rat model. The Journal of Sexual Medicine. 8:2215-2226; 2011.

111. Koontz, B. F., Yan, H., Kimura, M., **Vujaskovic, Z.,**Donatucci, C., Yin, F. F. Feasibility study of an intensity-modulated radiation model for the study of erectile dysfunction. The Journal of Sexual Medicine. 8:411-418; 2011.

112. Li, T., Thongphiew, D., Zhu, X., Lee, W. R., **Vujaskovic, Z.,** Yin, F. F., Wu, Q. J. Adaptive prostate IGRT combining online re-optimization and re-positioning: a feasibility study. Physics in Medicine and Biology. 56:1243-1258; 2011.

113. Miriyala, S., Spasojevic, I., Tovmasyan, A., Salvemini, D., **Vujaskovic, Z.,** St Clair, D., Batinic-Haberle, I. Manganese superoxide dismutase, MnSOD and its mimics. Biochimicaetbiophysicaacta. 2011.

114. Spasojevic, I., Kos, I., Benov, L. T., Rajic, Z., Fels, D., Dedeugd, C., Ye, X., **Vujaskovic, Z.,**Reboucas, J. S., Leong, K. W., Dewhirst, M. W., Batinic-Haberle, I. Bioavailability of metalloporphyrin-based SOD mimics is greatly influenced by a single charge residing on a Mn site. Free Radical Research. 45:188-200; 2011.

115. Batinic-Haberle, I., Spasojevic, I., Tse, H. M., Tovmasyan, A., Rajic, Z., Clair, D. K., **Vujaskovic, Z.,** Dewhirst, M. W., Piganelli, J. D. Erratum to: Design of Mnporphyrins for treating oxidative stress injuries and their redox-based regulation of cellular transcriptional activities. Amino Acids. 42:115-116; 2012.

116. Batinic-Haberle, I., Spasojevic, I., Tse, H. M., Tovmasyan, A., Rajic, Z., St Clair, D. K., **Vujaskovic, Z**., Dewhirst, M. W., Piganelli, J. D. Design of Mnporphyrins for treating oxidative stress injuries and their redox-based regulation of cellular transcriptional activities. Amino Acids. 42:95-113; 2012.

117. Kelsey, C. R., Jackson, L., Langdon, S., Owzar, K., Hubbs, J., **Vujaskovic, Z.,** Das, S., Marks, L. B. A Polymorphism Within the Promoter of the TGFbeta1 Gene Is Associated With Radiation Sensitivity Using an Objective Radiologic Endpoint. International Journal of Radiation Oncology, Biology, Physics. 82:e247-255; 2012.

118. Koontz, B. F., Tsivian, M., Mouraviev, V., Sun, L., **Vujaskovic, Z**., Moul, J., Lee, W. R. Impact of primary Gleason grade on risk stratification for Gleason score 7 prostate cancers. International Journal of Radiation Oncology, Biology, physics. 82:200-203; 2012.

119. Stewart, S. B., Banez, L. L., Robertson, C. N., Freedland, S. J., Polascik, T. J., Xie, D., Koontz, B. F., **Vujaskovic, Z.,** Lee, W. R., Armstrong, A. J., Febbo, P. G., George, D. J., Moul, J. W. Utilization trends at a multidisciplinary prostate cancer clinic: initial 5-year experience from the Duke Prostate Center. The Journal of Urology. **187**:103-108; 2012.

120. Betof, A. S., Rabbani, Z. N., Hardee, M. E., Kim, S. J., Broadwater, G., Bentley, R. C., Snyder, S. A., **Vujaskovic, Z**., Oosterwijk, E., Harris, L. N., Horton, J. K., Dewhirst, M. W., Blackwell, K. L. Carbonic anhydrase IX is a predictive marker of doxorubicin resistance in early-stage breast cancer independent of HER2 and TOP2A amplification. British J Cancer. **106**:916-922; 2012

121. Jackson, I. L., Zhang, X., Hadley, C., Rabbani, Z. N., Zhang, Y., Marks, S., **Vujaskovic, Z.** Temporal expression of hypoxia-regulated genes is associated with early changes in redox status in irradiated lung. Free Radical Biology & Medicine. **53**:337-346; 2012.

122. Kimura, M., Caso, J. R., Banez, L. L., Koontz, B. F., Gerber, L., Senocak, C., Donatucci, C. F., **Vujaskovic, Z**., Moul, J. W., Polascik, T. J. Predicting participation in and successful outcome of a penile rehabilitation programme using a phosphodiesterase type 5 inhibitor with a vacuum erection device after radical prostatectomy. BJU Int. 2012.

123. Kimura, M., Rabbani, Z. N., Zodda, A. R., Yan, H., Jackson, I. L., Polascik, T. J., Donatucci, C. F., Moul, J. W., **Vujaskovic, Z.,** Koontz, B. F. Role of oxidative stress in a rat model of radiation-induced erectile dysfunction. The Journal of Sexual Medicine. **9**:1535-1549; 2012.

124. Yuan, Y., Cheng, K. S., Craciunescu, O. I., Stauffer, P. R., Maccarini, P. F., Arunachalam, K., **Vujaskovic, Z**., Dewhirst, M. W., Das, S. K. Utility of treatment planning for thermochemotherapy treatment of nonmuscle invasive bladder carcinoma. Medical Physics. **39**:1170-1181; 2012

125. Zhang, Y., Zhang, X., Rabbani, Z. N., Jackson, I. L., **Vujaskovic, Z.** Oxidative stress mediates radiation lung injury by inducing apoptosis. International Journal of Radiation Oncology, Biology, Physics. **83**:740-748; 2012

126. Jackson, I. L., Zhang, X., Hadley, C., Rabbani, Z. N., Zhang, Y., Marks, S., **Vujaskovic, Z**. Temporal expression of hypoxia-regulated genes is associated with early changes in redox status in irradiated lung. Free Radic Biol Med. **53**(2):337-46; 2012.

127. Jackson, I.L., Xu, P., Hadley, C., Katz, B.P., McGurk, R., Down, J.D., **Vujaskovic Z.** A preclinical rodent model of radiation-induced lung injury for medical countermeasure screening in accordance with the FDA animal rule. Health Phys. **103**(4):463-473; 2012

128. McGurk, R., Hadley, C., Jackson, I.L., **Vujaskovic, Z.** Development and dosimetry of a small animal lung irradiation platform. Health Phys. 103:454-462, 2012

129. Zhou, S., Nissao, E., Jackson, I.L., Leong, W., Dancy, L., Cuttitta, F., **Vujaskovic, Z.**, Sunday, M.E. Radiation-induced lung injury is mitigated by blockade of gastrin-releasing peptide. Am J Pathol. **182**:1248-1254; 2013

130. Weitner, T., Kos, I., Sheng, H., Tovmasyan, A., Reboucas, J.S., Fan, P., Warner, D.S., **Vujaskovic, Z.**, Batinic-Haberle, I., Spasojevic, I. Comprehensive pharmacokinetic studies and oral bioavailability of two Mn porphyrin-based SOD mimics, MnTE-2-PyP5+ and MnTnHex-2-PyP5+. Free Radic Biol Med. **58**:73-80; 2013

131. Kelsey, C.R., Jackson, I.L., Langdon, S., Owzar, K., Hubbs, J., **Vujaskovic, Z.**, Das, S., Marks, L.B. Analysis of single nucleotide polymorphisms and radiation sensitivity of the lung assessed with an objective radiologic endpoint. Clin Lung Cancer. **14**:267-274; 2013

132. Tovmasyan, A., Sheng, H., Weitner, T., Arulpragasam, A., Lu, M., Warner, D.S., **Vujaskovic, Z.**, Spasojevic, I., Batinic-Haberle, I. Design, mechanism of action, bioavailability and therapeutic effects of mn porphyrin-based redox modulators. Med Princ Pract. **22**:103-130; 2013

133. Koontz, B.F., Quaranta, B.P., Pura, J.A., Lee, W.R., **Vujaskovic, Z.**, Gerber, L., Haake, M., Anscher, M.S., Robertson, C.N., Polascik, T.J., Moul, J.W. Phase 1 trial of neoadjuvant radiation therapy before prostatectomy for high-risk prostate cancer. Int J Radia Oncol Biol Phys. **87**:88-93, 2013

134. Down, J.D., Medhora, M., Jackson, I.L., Cline, J.M., **Vujaskovic, Z.** Do variations in mast cell hyperplasia account for differences in radiation-induced lung injury among different mouse strains, rats and nonhuman primates? Radiat Res. **180**:216-221, 2013

135. Jackson, I.L., Xu, P., Nguyen, G., Down, J.D., Johnson, C.S., Katz, B.P., Haley, C.C., **Vujaskovic, Z.** Characterization of the dose response relationship for lung injury following acute radiation exposure in three well-established murine strains: developing an interspecies bridge to link animal models with human lung. Health Phys. **106**(1):48-55, 2014

136. Jones, J.J., Scott, A.J., Tudor, G., Xu, P., Jackson, I.L., **Vujaskovic, Z.**, Booth, C., MacVittie, T.J., Ernst, R.K., Kane, M.A. Identification and quantitation of biomarkers for radiation-induced injury via mass spectrometry. Health Phys. **106**(1):106-119, 2014

137. Batinic-Haberle, I., Tovmasyan, A., Roberts, E.R., **Vujaskovic, Z.**, Leong, K.W., Spasojevic, I. SOD therapeutics: Latest insights into their structure-activity relationships and impact on the cellular redox-based signaling pathways. Antioxid Redox Signal. **20**(15):2372-2415, 2014

138. Myerson, R.J., Moros, E.G., Diederich, C.J., Haemmerich, D., Hurwitz, M.D., Hsu, I.C., McGough, R.J., Nau, W.H., Straube, W.L., Turner, P.F., **Vujaskovic, Z.,** Stauffer, P.R. Components of a hyperthermia clinic: recommendations for staffing, equipment, and treatment monitoring. International Journal of Hyperthermia. **30**(1):1-5, 2014

139. Gauter-Fleckenstein, B., Reboucas, J.S., Fleckenstein, K., Tovmasyan, A., Owzar, K., Jiang, C., Batinic-Haberle, I., **Vujaskovic, Z.** Robust rat pulmonary radioprotection by a lipophilic Mn N-alkylpyridylporphyrin, MnTnHex-2-PyP(5+). Redox Biol. **2**:400-410, 2014

140. Inman, B.A., Stauffer, P.R., Craciunescu, O.A., Maccarini, P.F., Dewhirst, M.W., **Vujaskovic, Z.** A pilot clinical trial of intravesical mitomycin-C and external deep pelvic hyperthermia for non-muscle-invasive bladder cancer. International Journal of Hyperthermia. **30**(3):171-175, 2014

141. Juang, T., Stauffer, P.R., Craciunescu, O.A., Maccarini, P.F., Yuan, Y., Das, S.K., Dewhirst, M.W., Inman, B.A., **Vujaskovic, Z**. Thermal dosimetry characteristics of deep regional heating of non-muscle invasive bladder cancer. International Journal of Hyperthermia. **30**(3):176-83, 2014

142. Zagar, T.M., **Vujaskovic, Z.**, Formenti, S., Rugo, H., Muggia, F., O’Connor, B., Myerson, R., Stauffer, P., Hsu, I.-C., Diederich, C., Straube, W., Boss, M.-K., Boico, A., Craciunescu, O., Maccarini, P., Needham, D., Borys, N., Blackwell, K.L., Dewhirst, M.W. Two phase I dose-escalation/pharmacokinetics studies of low temperature liposomal doxorubicin (LTLD) and mild local hyperthermia in heavily pretreated patients with local regionally recurrent breast cancer. International Journal of Hyperthermia. **30**(5):285- 294, 2014

143. Kimura, M., Zodda, A.R., Mahmood, J., Das, S.K., Nguyen, G.B., Jackson, I.L., **Vujaskovic, Z**. Pilot study evaluating a rat model of radiation-induced erectile dysfunction using an image-guided microirradiator. Urology. **85**(5):1214.e1-1214.e6, 2015

**Book Chapters**

1. Jones EL, Samulski TV, **Vujaskovic Z**, Proznitz LR, Dewhirst MW. “Hyperthermia as a Treatment Modality.” In: Principals and Practice of Radiation Oncology*.* EC Halperin, CA Perez, LW Brady, ed.5th Edition, 2007
2. Dewhirst, MW.,Jone, E., Samulski, T., **Vujaskovic, Z**., Li, C., Prosnitz, L. “Hyperthermia.” In: Cancer Medicine. D Kufe, R Pollock, R Weichselbaum, R Bast, T Gansler, J Hollan, E Frei III***,*** *Eds****.*** BC Decker, Hamilton, London, 2003.
3. Shafman T, Yu Z, **Vujaskovic Z,** Anscher MA, Miller K, Prosnitz RG, Marks LB. Radiation induced lung and heart toxicity. In: Medical Radiology: Advances in Radiation Oncology in Lung Cancer. Jeremic B, Ed. Springer-Verlag, New York, NY, 2004.
4. Jackson IL**,** Anscher M, **Vujaskovic Z**. “Translational studies for target based approaches to mitigate radiation-induced normal tissue injury.” In: Medical Radiology: The Impact of Tumor Biology on Cancer Treatment and Multidisciplinary Strategies. M. Molls, P. Vaupel, C. Nieder, M.S. Anscher, ed*.*Berlin, Germany, 2009.
5. **Vujaskovic Z,** Willett C, Tepper J, Kinsella TJ, Gunderson LL. Normal tissue tolerance to IOERT, EBRT, or both: animal and clinical studies. In: Gunderson LL, Willett CG, Calvo FA, Harrison LB, ed. *Intraoperative Irradiation (2nd ed*). New York: Springer, 2011.
6. Dewhirst MW, Das S, Stauffer P, Craciunescu O, **Vujaskovic Z,** Thrall D. Hyperthermia. In: Gunderson LL, Tepper J, ed. *Clinical Radiation Oncology (3rd ed).*Philadelphia: Elsevier Saunders, 2012

**Major Invited Speeches** (following are selected speeches from the last ten years, there are numerous others)

1. **Z. Vujaskovic**, “Sequencing Effects of a Superoxide Dismutase Mimetic on Tumor Radioresponsiveness”, **American Society for Therapeutic Radiation Oncology 45th Annual Meeting.** Salt Lake City, UT: 2003
2. **Z. Vujaskovic**, “Hyperthermia and Cervix Cancer: Phase III Trial”, **International Congress for Hyperthermic Oncology.** Kyoto, Japan: 2004
3. **Z. Vujaskovic**, “Hyperthermia Mediated Liposomal Drug Delivery”, **Society for Thermal Medicine Annual Meeting.** Bethesda, MD: April 1-3, 2005
4. **Z. Vujaskovic**, “In Vivo Tumor Oxygenation Measurements, Carbonic Anhydrase IX Expression And Microvessel Density In Breast Cancer Treated With Neoadjuvent Thermochemotherapy”, **Society for Thermal Medicine Annual Meeting.** Bethesda, MD: April 1-3, 2005
5. **Z. Vujaskovic**, “Treatment/prevention of late injury: From mechanism to therapeutic interventions”, **American Society for Therapeutic Radiation Oncology/Radiation Research Society 46th Annual Meeting**. Denver, CO: 2005
6. **Z. Vujaskovic**, “Radiation Pathology and Mechanism of Normal Tissue Response”, **ASTRO Refresher Course.** Denver, CO: 2005
7. **Z. Vujaskovic**, “Hyperthermia - Tumor Reoxygenation and Angiogenesis”, **Dutch Radiobiology Society Meeting.** Amsterdam, NL: April 21, 2006
8. **Z. Vujaskovic**, “Radiation-induced lung injury: From mechanism to therapeutic interventions”, **Virginia Commonwealth University Medical Center.** 2006
9. **Z. Vujaskovic**, “ROS and TGF-beta in Radiation Induced Lung Injury”. **International Society of Oncology and Biomarkers**. Pasadena, California: September 16, 2006
10. **Z. Vujaskovic**, “TGF-beta in Lung Cancer Radiotherapy: Molecular and Clinical Aspects”, **European Society for Therapeutic Radiation Oncology Annual Meeting.** Leipzig, Germany: October 12, 2006
11. **Z. Vujaskovic**, “Heat and Angiogenesis: What do we really know?” **Society for Thermal Medicine Annual Meeting.** Bethesda, Maryland: April 1-3, 2006
12. **Z. Vujaskovic**, “Magnetic resonance thermal imaging (MRTI): Duke experience with extremity soft tissue sarcomas”, **Annual Meeting of the European Society for Hyperthermic Oncology.** Berlin, Germany: May 24-27, 2006
13. **Z. Vujaskovic, “**Hyperthermia enhances anti-angiogenic effect of manganese porphyrin mimetic of superoxide dismutase”, **Annual Meeting of the European Society for Hyperthermic Oncology.** Prague, Czech Republic: June 14-16, 2007
14. **Z. Vujaskovic**, Stereotactic radiotherapy (SBRT) for Non Small Cell Lung Cancer (NSCLC) Novi Sad, Serbia: 2007
15. **Z. Vujaskovic**, “In Vivo Imaging of Normal Tissue Vasculature”, **Center for Medical Countermeasures Against Radiation (CMCR) Animal Workshop**

San Antonio, Texas: 2008

1. **Z. Vujaskovic**, **“**Neoadjuvant hyperthermia and chemotherapy for locally advanced breast cancer treatment”, **International Congress for Hyperthermic Oncology Annual Meeting.** Munich, Germany, April 10, 2008
2. **Z. Vujaskovic**, “An update of the Duke experience for thermally sensitive (TS) liposomes containing doxorubicin (Thermodox, TDOX) in combination with hyperthermia (HT) in breast cancer patients with chest wall recurrence”, **International Congress for Hyperthermic Oncology Annual Meeting.** Munich, Germany: April 10, 2008
3. **Z. Vujaskovic**, “Extrapolation of radiation-induced lung injury from small and large animals to humans: opportunities and pitfalls”, **Public Workshop on Animal Models for the Treatment of Acute Radiation Syndrome (ARS) sponsored by FDA, CBER, CDER, and NIAID.** Maryland:September 17-18, 2008
4. **Z. Vujaskovic**, **“**MRI for non-invasive thermometry”, **Annual Meeting of the European Society for Hyperthermic Oncology.** Verona, Italy: June 4-6, 2009
5. **Z. Vujaskovic**, **“**[Thermally enhanced chemosensitization and drug delivery: clinical trials in patients with breast cancer chest wall recurrence, locally advanced breast cancer, and bladder cancer.](http://stm.conference-services.net/resources/467/1866/pdf/STM2010_0128.pdf)” **Society** **for Thermal Medicine Annual Meeting.** Clearwater, Florida: April 23-26, 2010
6. **Z. Vujaskovic**, **“**[Pilot Study of External Hyperthermia and Intravesical Mitomycin-C to Treat Recurrent Bladder Cancer After Failed Standard Therapy](http://stm.conference-services.net/resources/467/1866/pdf/STM2010_0115.pdf)”, **Society** **for Thermal Medicine Annual Meeting.** Clearwater, Florida: April 23-26, 2010
7. **Z. Vujaskovic**, “Radiation-Induced Pulmonary Injury: Causes and Cures”, **Johns Hopkins University School of Medicine.** 2010
8. **Z. Vujaskovic**, “Where is hyperthermia practice headed in U.S. and worldwide,” **Society for Thermal Medicine Annual Meeting.** New Orleans, LA: April 29-May 02, 2011
9. **Z. Vujaskovic**, “Deep regional hyperthermia: clinical studies, practice, and protocols,” **International Clinical Hyperthermia Society Meeting.** Tbilisi, Georgia: September 9-11, 2011
10. **Z. Vujaskovic**, “Where is hyperthermia practice headed in U.S. and worldwide?” **International Congress of Hyperthermic Oncology.** Kyoto, Japan: August 30, 2012
11. **Z. Vujaskovic**, “Role of hyperthermia in treatment of bladder cancer: current status and future directions.” **International Congress of Hyperthermic Oncology.** Kyoto, Japan: August 31, 2012
12. **Z. Vujaskovic**, “Radiation protection with SOD mimetics.” **Centers for Medical Countermeasures Against Radiation (CMCR).** New York, New York: October 15, 2012
13. **Z. Vujaskovic**, “Translational Radiation Sciences (TRS): *Past, Present, Future* – Duke to UMB.” **MCART Annual Meeting**. Baltimore, MD: November 14-15, 2012
14. **Z. Vujaskovic**, “Murine model of radiation-induced lung injury.” **BARDA/NIAID Symposium**, Bethesda, MD: January 24, 2013
15. **Z. Vujaskovic**, “Role of chronic oxidative stress in development of radiation-induced lung injury.” **University Medical Center Groningen**. Groningen, Netherlands: March 26, 2013
16. **Z. Vujaskovic**, “Human breast cancer stem cells are sensitive to hyperthermia.” **Society for Thermal Medicine**, Palm Beach, Aruba, the Netherlands: April 19, 2013
17. **Z. Vujaskovic**, “Development and refinement of murine model(s) of radiation pneumonitis/fibrosis to link with non-human primate and human pulmonary responses to radiation.” **ConRad Global Conference on Radiation Topics**, Munich, Germany: May 15, 2013
18. **Z. Vujaskovic**, I. Batinic-Haberle, “Mitigation of radiation-induced lung injury with catalytic metalloporphyrin antioxidants.” **RadCCORE** **Radiation Countermeasures Center of Research Excellence.** Bethesda, MD: January 8, 2014
19. **Z. Vujaskovic**, I.L. Jackson, “Evolution of the development and refinement of a murine model of radiation pneumonitis/fibrosis.” **MCART Annual Meeting.** Indianapolis, IN: March 18-19, 2014.
20. **Z. Vujaskovic**, Chairman of Workshop: “Expanding the Clinical Hyperthermia Experience.” **Society for Thermal Medicine**, Minneapolis, MN: May 8, 2014
21. **Z. Vujaskovic**, “Coming full circle: Thermal Oncology Program at the University of Maryland.” **Society for Thermal Medicine**, Minneapolis, MN: May 8, 2014
22. **Z. Vujaskovic**, “The use of hyperthermia in the setting of re-irradiation for local breast cancer chest wall recurrences.” **Oncology Grand Rounds,** Inova Fairfax Medical Center, Fairfax, VA: June 18, 2014
23. **Z. Vujaskovic**, “Radiation therapy exposures.” **NIAID/FDA Forum**, White Oak, MD: November 5, 2014
24. **Z. Vujaskovic**, “Mitigation of radiation induced pulmonary injury with Nrf2 activator.” **NIH/NIAID U01 PI Meeting**, Rockville, MD: November 13, 2014
25. **Z. Vujaskovic**, Chairman of Clinical Session and Chairman of STM Nomination Committee. **Society for Thermal Medicine**, Orlando, FL: April 14-17, 2015
26. **Z. Vujaskovic**, “Radiation-induced lung injury: mechanisms and therapeutic strategies.” Keynote Speaker, **University of Pennsylvania, Department of Radiation Oncology, Radiobiology and Imaging Retreat**, Philadelphia, PA: April 24, 2015
27. **Z**. **Vujaskovic**, “Risk factors for development of radiation pneumonitis/fibrosis in a murine model.” **2015 ConRad – Conference on Radiation Topics**, Munich, Germany: May 4-7, 2015
28. **Z**. **Vujaskovic**, “Novel animal model of combined injury and multiple organ failure caused by radiation and peripheral tissue trauma – preliminary results.” **International Congress of Radiation Research (ICRR)**, Kyoto, Japan: May 25-29, 2015
29. **Z. Vujaskovic**. “Development of animal models for testing new therapeutic strategies to mitigate and/or treat multiorgan injury and improve survival following lethal radiation exposure.” **RAD 2015 Conference**, Budva, Montenegro: June 7-12, 2015
30. **Z**. **Vujaskovic**, **European Society for Hyperthermic Oncology (ESHO 2015)**, Zurich, Switzerland: June 24-26, 2015

**Presentations, Seminars, etc. (internal)**

1. **Free Radical Interest/Genomic Instability Interest Group Seminar**, November 13, 2012. “Role of chronic oxidative stress and free radicals in development of radiation-induced lung injury.”
2. **Hematology/Oncology Grand Rounds**, April 12, 2013. “Cancer Thermal Therapy.”
3. **Center for Vascular and Inflammatory Diseases**, June 19, 2013. “Vascular dysregulation – chronic oxidative stress and radiation-induced lung injury.”
4. **11th Annual Breast Cancer Update, Screening, Diagnosis & Current Treatment**, October 4, 2013. “The use of hyperthermia in the setting of re-irradiation for local breast cancer chest wall recurrences.”
5. **Graduate Program in Life Sciences (GPILS)**, Biochemistry and Molecular Biology Department, November 25, 2013. “Chronic oxidative stress and radiation-induced lung injury.”
6. **Novel Aspects in Biomedical Science Seminar Series, Department of Research and Medical Technology**, April 1, 2014. “Prevention of radiation-induced lung injury.”
7. **3rd Annual Update and Workshop on Management of Peritoneal Surface Malignancies**, June 12, 2014. “Role of hyperthermia in cancer management.”