**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

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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.

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**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
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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.”