

CURRICULUM VITAE

MICHAEL ROBERT HORSMAN

Born December 3, 1953, London, England
Nationality British
Home address Jernaldervej 300, 8210 Aarhus V, Denmark

Education

1959-1965 Michael Faraday Primary and Junior School, London, England
1965-1973 Archbishop Tenison's Grammar School, London England
1974-1977 Oxford Polytechnic, Oxford, England
1977-1980 University of London, Sutton, Surrey, England

Academic degrees

1977 B.Sc. (Hons) in human biology
1981 PhD in radiation biology
1996 D.M.Sc. in Medical Science

Present position

Professor of Experimental Radiotherapy, Department of Experimental Clinical Oncology, Aarhus University Hospital, Nørrebrogade 44, DK-8000 Aarhus C, Denmark, (2012-present)

Previous research appointments

1977-1980 PhD Student, Institute of Cancer Research, Royal Marsden Hospital, Sutton, Surrey, England.
1981-1986 Research Associate, Department of Therapeutic Radiology, Division of Radiobiology Research, Stanford University, Stanford, California, USA
1987-1989 Research Scientist, Danish Cancer Society, Department of Experimental Clinical Oncology, Aarhus, Denmark
1990-1997 Senior Scientist, Danish Cancer Society, Department of Experimental Clinical Oncology, Aarhus, Denmark
1997-2012 Associate Professor, Aarhus University, Denmark

Awards and grants

The 11th Annual Robert F. Kallman Memorial Lecture (2014)
The Order of St. John Fellowship Anniversary Silver Medal Award (2013)
The B.B. Singh Oratory (2012)
Winner of the ESHO-BSD Award (2011)
The Martin Lindgren Lecture (1998)
Winner of the 1988 Lund Science Award
Conference on Chemical Modifiers of Cancer Treatment, Junior Investigator Award, Clearwater, FL, USA, October (1985)
CROS Conference on Chemical Modifiers of Cancer Treatment, Junior Investigator Award, Banff, Alberta, Canada, December (1983)
Seventh International Congress on Radiation Research, Junior Investigator Award, Amsterdam, The Netherlands, July (1983)
CROS Conference on Chemical Modification : Radiation and Cytotoxic Drugs, Junior Investigator Award, Key Biscayne, FL, USA, September (1981)
Radiation Research Society Student Travel Award, New Orleans, LA, USA, May (1980)

Publications and presentations

Number of publications: 253, Peer-reviewed articles: 163, Book chapters: 37,
H-index: 44, Number of citations: 5615, Scientific meeting presentations (oral): 155.

Board memberships

Secretary General and Scientific Secretary of the European Society for Hyperthermic Oncology (2013-)
Member of the board of the European Society for Hyperthermic Oncology (2003-2006, 2008-2011, 2013-)

Member of the board of the Danish Association for Cancer Research (2005-2008)
Secretary/Treasurer of the International Association for Hyperthermic Oncology (2004-2008)

Supervision

Supervisor for 12 PhD students at Faculty of Health Sciences, Aarhus University, Denmark
Supervisor for 1 PhD student at the Medical Faculty, University of Turku
Supervisor for 3 Diploma students at Faculty of Health Sciences, Aarhus University, Denmark
Supervisor for 1 MSc student at the School of Pharmacology, University of Bath, England

Evaluations

MIDWAY QUALIFYING EXAM FOR PHD.:

2 students at Science and Technology, Aarhus University, Denmark

PHD. THESIS:

1 student at Health, Aarhus University, Denmark

1 student at University of Lund, Sweden

2 students at University of London, UK

1 student at University of Padova, Italy

1 student at University of British Columbia, Canada

1 student at University of Copenhagen, Denmark

1 student at University of Oslo, Norway

M.Sc. THESIS:

1 student at University of Auckland, New Zealand

1 student at Health, Aarhus University, Denmark

1 student at University of Southern Denmark, Denmark

Dr. PHILOS THESIS:

6 students at University of Oslo, Norway

D.M.Sc. THESIS:

1 student at University of Copenhagen, Denmark

2 students at University of Bergen, Norway

M.D. THESIS:

1 student at University of London, UK

Major research grants

Danish Cancer Society: Identifying and targeting the different microenvironmental and vascular features of tumours to improve radiotherapy outcome (2012-2014)

Therapeutic impact of the tumour microenvironment and vasculature (2008-2010)

The Danish Council for Independent Research | Medical Sciences: Bioimaging of tumour hypoxia to improve the therapeutic outcome in cancer patients (2006-2008)

The Danish Council for Independent Research | Medical Sciences: Improving cancer therapy by targeting the tumour vasculature: Optimizing and exploiting novel and established approaches (2010-2012)

External grant reviewer

Association for International Cancer Research

AstraZeneca Research and Educational Scholarships

Belgian Foundation Against Cancer

Dutch Cancer Society

Flanders Research Foundation

Flight Attendant Medical Research Institute

Health Research Council of New Zealand

Medical Research Council of Canada

NATO Collaborative Research Grants

Shota Rustaveli National Science Foundation of Georgia

U.K. Cancer Research Campaign

University of Antwerp Research Council

Organisation of scientific conferences

Member of the Organising Committee of the Tumour Hypoxia Meeting, April 9-11, 1986, Vancouver, British Columbia, Canada.

Member of the Organising Committee for the COMAC-BME Workshop on Clinical Evaluation of Hyperthermia, February 23-25, 1990, Copenhagen, Denmark.

Member of the Organising Committee of the 3rd International Workshop on Tumor Hypoxia, July 2-5, 1991, Orillia, Ontario, Canada. Organiser of the Workshop on The Potential of NMR Spectroscopy for In Vivo Cancer Research, April 26-27, 1993, Aarhus, Denmark.

Member of the Scientific Committee of the 13th Annual Conference of the European Society for Hyperthermic Oncology, June 16-19, 1993, Brussels, Belgium.

Chairman of the Organising Committee of the International Workshop on Tumour Microenvironment: Its Characterization, Modification and Clinical Implications, September 23-25, 1994, Granada, Spain.

Member of the Scientific Programme Committee of the 3rd International ARCON Workshop, August 14-17, 1996, Umeå, Sweden.

Member of the Organizing Committee of the International Workshop on the Tumor Microenvironment: An Important Paradigm in Cancer Etiology and Treatment, April 28 - May 2, 1997, Martha's Vineyard, RI, USA.

Member of the Programme Committee of the 10th International Conference on Chemical Modifiers of Cancer Treatment, January 28-31, 1998, Clearwater, FL, USA.

Co-organizer of the Workshop on Non-invasive Imaging of Tumour Hypoxia, November 21, 1998, Aarhus, Denmark.

Organizer of the Danish Society for Cancer Research Meeting on "Damaging established tumour vasculature: an alternative to anti-angiogenesis approaches", August 25, 1999, Copenhagen, Denmark.

Member of the Scientific Committee of the 18th Annual Meeting of the European Society for Hyperthermic Oncology, September 1-4, 1999, Rotterdam, The Netherlands.

Member of the Organizing Committee of the NOS-M Symposium on Angiogenesis, January 7-9, 2000, Gentofte Denmark.

Member of the Scientific Committee of the 8th International Congress of Hyperthermic Oncology, April 26-29, 2000, Kyong-Ju, Korea.

Member of the Programme Committee of the 19th Annual Meeting of the European Society for Therapeutic Radiology and Oncology, September 17-21, 2000, Istanbul, Turkey.

Member of the Faculty of the 11th International Conference on Chemical Modifiers of Cancer Treatment, October 5-7, 2000, Banff, Alberta, Canada.

Member of the Organizing Committee of the 7th International Workshop on the Tumor Microenvironment and Its Impact on Cancer Therapies, April 19-21, 2001, Atlanta, GA, USA.

Member of the Scientific Committee of the 19th Annual Meeting of the European Society for Hyperthermic Oncology, May 30 - June 2, 2001, Verona, Italy.

Organizer and Chairman of the Scientific Programme Committee of the 1st ESTRO Workshop on Biology in Radiation Oncology, June 10-12, 2001, Fuglsø, Denmark.

Member of the Organizing Committee of the 8th International Workshop on the Tumor Microenvironment and Its Impact on Cancer Therapies, May 3-7, 2003, Miami, FL, USA.

Member of the Scientific Committee of the 2nd ESTRO Workshop on Biology in Radiation Oncology, June 1-3, 2003, Nijmegen, The Netherlands.

Member of the Scientific Programme Committee of the 9th International Congress on Hyperthermic Oncology, April 20-24, 2004, St. Louis, MO, USA.

Member of the Scientific Radiobiology Committee of the 23rd Annual Meeting of the European Society for Therapeutic Radiology and Oncology, September, 2004, Amsterdam, The Netherlands.

Member of the programme Committee for the 18th Annual Meeting of the Danish Society for Cancer Research, May 4, 2005, Vilvorde, Denmark.

Member of the Scientific Committee of the 22nd Annual Meeting of the European Society for Hyperthermic Oncology, June 8-11, 2005, Graz, Austria.

Member of the Organizing Committee of the 9th International Workshop on the Tumor Microenvironment: Hypoxia, angiogenesis and vasculature, August 20-23, 2005, Oxford, UK.

Member of the programme Committee for the 19th Annual Meeting of the Danish Society for Cancer Research, May 5, 2006, Vilvorde, Denmark.

Member of the Organizing Committee of the 10th International Workshop on the Tumor Microenvironment: Hypoxia, angiogenesis and vasculature, September 15-18, 2006, Boston, USA.

Member of the Programme Committee for the 20th Annual Meeting of the Danish Society for Cancer Research, May 11, 2007, Vilvorde, Denmark.

Co-Organiser of the 3rd European Society for Hyperthermic Oncology Educational Day, June 13, 2007, Prague, Czech Republic.

Member of the Programme Committee for the 21st Annual Meeting of the Danish Society for Cancer Research, April 30, 2008, Vilvorde, Denmark.

Member of the Organizing Committee of the 11th International Workshop on the Tumor Microenvironment: Hypoxia, angiogenesis and vasculature, May 15-17, 2008, Miami, USA.

Member of the Scientific Committee of the International Conference on Tumor hypoxia and malignant progression, October 1-4, 2008, Kiev, Ukraine.

Member of the Organizing Committee of the 12th International Workshop on the Tumor Microenvironment: Hypoxia, angiogenesis and vasculature, May 2-5, 2010, Toronto, Canada

Member of the International Scientific Programme Committee of the International Conference on Tumor and Host: novel aspects of old problem, September 21-24, 2010, Kiev, Ukraine.

Organiser of the 7th European Society for Hyperthermic Oncology Educational Day, May 25, 2011, Aarhus, Denmark.

Organiser of the 27th Annual Meeting of the European Society for Hyperthermic Oncology, May 26-28, 2011, Aarhus, Denmark.

Member of the Scientific Committee of the 12th International Wolfsberg Meeting on Molecular Radiation Biology/Oncology, June 25-27, 2011, Ermatingen, Switzerland.

Member of the Organizing Committee of the Aarhus PET-MR Hybrid Scanner Workshop on Instrumentation, Development, Research and Clinical Application, June 29, 2011, Aarhus, Denmark.

Member of the Organizing Committee of the 13th International Workshop on the Tumor Microenvironment: Hypoxia, angiogenesis and vasculature, May 2-4, 2013, Miami, USA.

Member of the Local Organizing Faculty of the 11th Acta Oncologica Symposium BiGART 2013, June 11-13, 2013, Aarhus, Denmark.

Member of the Scientific Committee of the 28th Annual Meeting of the European Society for Hyperthermic Oncology, June 19-22, 2013, Munich, Germany.

Member of Board of Directors of the European Society for Hyperthermic Oncology School on Hyperthermia & Thermal Ablation in Cancer Therapy, February 3-6, 2014, Huntsham, UK.

Member of the Scientific Committee of the 29th Annual Meeting of the European Society for Hyperthermic Oncology, June 11-14, 2014, Torino, Italy.

Member of the Local Organizing Faculty of the 12th Acta Oncologica Symposium BiGART 2015, June 10-12, 2015, Aarhus, Denmark.

Member of the Scientific Committee of the 30th Annual Meeting of the European Society for Hyperthermic Oncology, June 24-27, 2015, Zurich, Switzerland.

Member of the Organizing Committee of the 14th International Workshop on the Tumor Microenvironment: Hypoxia, angiogenesis and vasculature, August 27-29, 2015, Vancouver, Canada.

Member of the Organizing Committee of the 15th International Workshop on the Tumor Microenvironment: Hypoxia, angiogenesis and vasculature, April 27-29, 2017, Miami, USA.

Member of the Local Organizing Faculty of the 13th Acta Oncologica Symposium BiGART 2017, June 13-16, 2017, Aarhus, Denmark.

Member of the Scientific Committee of the 31st Annual Meeting of the European Society for Hyperthermic Oncology, June 21-23, 2017, Athens, Greece.

Session chairmanship

Chairman of the Session on Hypoxic Cell Sensitizers I, at the 34th Annual Radiation Research Society Meeting, April 12-17, 1986, Las Vegas, NV, USA.

Chairman of the Session on Immunology and Physiological Effects, at the 37th Annual Radiation Research Society Meeting, March 19-23, 1989, Seattle, WA, USA.

Organizer and Chairman of the Workshop on Vascular and Environmental Effects of Hyperthermia, at the 10th Annual European Society for Hyperthermic Oncology Meeting, September 21-23, 1989, Amsterdam, The Netherlands.

Chairman of the Session on Tumor Hypoxia - Impact on Radiation Response, at the 3rd International Workshop on Tumor Hypoxia, July 2-5, 1991, Orillia, Ontario, Canada.

Session chairman at the Workshop on Bioreductive Drugs, Sensitizers, Oxygen, and Radiation, October 20-22, 1991, Vienna, Austria.

Organizer and Chairman of the Workshop on Tumour Physiology and the Response to Heat: Clinically Relevant Predictive Assays and Methods of Modification, at the 6th International Congress of Hyperthermic Oncology, April 26 - May 1, 1992, Tucson, AZ, USA.

Session Chairman at the Workshop on The Potential of NMR Spectroscopy for In Vivo Cancer Research, April 26-27, 1993, Aarhus, Denmark.

Chairman of the Session on Manipulation of Tumor Oxygen and Physiology, at the 8th International Conference on Chemical Modifiers of Cancer Treatment, June 16-19, 1993, Kyoto, Japan.

Chairman of the Session on Preclinical Study, at the International Congress of Radiation Oncology - 1993, June 21-25, 1993, Kyoto, Japan.

Session Chairman at the Workshop on The Tumour Microenvironment: Its Characterization, Modification and Clinical Implications, September 23-25, 1994, Granada, Spain.

Session Chairman at the 9th International Conference on Chemical Modifiers of Cancer Treatment, August 22-26, 1995, Oxford, England.

Session Chairman at the 15th Annual Meeting of the European Society for Hyperthermic Oncology, September 3-6, 1995, Oxford, England.

Organizer and Chairman of the Symposium on Clinical and Physical Advances on the Study of Tumor Micro-Environment and Clinical Heat Response, at the 7th International Congress of Hyperthermic Oncology, April 9-13, 1996, Rome, Italy.

Chairman of the Session on Tumour Microenvironment at the 15th Annual Meeting of the European Society for Therapeutic Radiology and Oncology, September 23-26, 1996, Vienna, Austria.

Chairman of the Session on Cellular and Physiological Effects of Hyperthermia at the 16th Annual Meeting of the European Society for Hyperthermic Oncology, April 2-5, 1997, Berlin, Germany.

Session Chairman at the Workshop on the Tumour Microenvironment: An Important Paradigm in Cancer Etiology and Treatment, April 28 - May 2, 1997, Martha's Vineyard, RI, USA.

Chairman of the Session on Tumour Biology at the 17th Annual Meeting of the European Society for Therapeutic Radiology and Oncology, September 20-24, 1998, Edinburgh, UK.

Chairman of the Session on Oxidative Metabolism at the 8th Symposium on the Medical Applications of Cyclotrons, May 22-25, 1999, Turku, Finland.

Chairman of the Session on Enhancing Therapy at the International Workshop on the Tumour Microenvironment, July, 15-17, 1999, Belfast, UK.

Chairman of the Session on WBHT and Three-Modality at the 18th Annual Meeting of the European Society for Hyperthermic Oncology, September 1-4, 1999, Rotterdam, The Netherlands.

Session Chairman at the 41st Annual Scientific Meeting of the American Society for Therapeutic Radiology and Oncology, October 31 - November 4, 1999, San Antonio, TX, USA.

Chairman of the Session on Vasculature, Angiogenesis and Hypoxia at the First International Conference on Translational Research and Pre-Clinical Strategies in Radio-Oncology, March 5-8, 2000, Lugano, Switzerland.

Session Chairman at the 8th International Congress of Hyperthermic Oncology, April 26-29, 2000, Kyong-Ju, Korea.

Chairman of the Session on Tumor Oxygenation/Physiology at the 11th International Conference on Chemical Modifiers of Cancer Treatment, October 5-7, 2000, Banff, Alberta, Canada.

Chairman of the Session on Tumor Physiology and Treatment Outcome at the 42nd Annual Meeting of the American Society for Therapeutic Radiology and Oncology, October 22-26, 2000, Boston, MA, USA.

Chairman of the Session on Anti-Vascular/Anti-Angiogenic Therapies at the 7th International Workshop on The Tumour Microenvironment and Its Impact on Cancer Therapies, April 19-21, 2001, Atlanta, GA, USA.

Chairman of the Session on Cellular and Physiological Mechanisms at the 19th Annual Meeting of the European Society for Hyperthermic Oncology, May 30-June 2, 2001, Verona, Italy.

Chairman of the Session on Modifying Microenvironment at the 21st Annual Meeting of the European Society for Therapeutic Radiology and Oncology, September 17-21, 2002, Praha, Czech Republic.

Chairman of the Teaching Lecture on Translational Research in Radiation Oncology at the 12th Annual Meeting of the European Cancer Congress, September 21-25, 2003, Copenhagen, Denmark.

Session Chairman at the 9th Annual Scientific Meeting of the Sector for Clinical research, Dept. Oncology, Aarhus University Hospital, October 3-4, 2003, Fuglsøcentret, Mols, Denmark.

Chairman of the Session on Low Molecular Weight Vascular Targeting Agents at the 2nd International Conference on Vascular Targeting, May 16-18, 2004, Miami, FL, USA.

Chairman of the Session on Hypoxia and Angiogenesis at the 23rd Annual Meeting of the European Society for Therapeutic Radiology and Oncology, September, 2004, Amsterdam, The Netherlands.

Chairman of the Biology Session at the 22nd Annual Meeting of the European Society for Hyperthermic Oncology, June, 2005, Graz, Austria.

Session Chairman at the 9th International Workshop on the Tumor Microenvironment: Hypoxia, angiogenesis and vasculature, August 20-23, 2005, Oxford, UK.

Chairman of the Session on Cell-Microenvironment at the 3rd International Conference on Translational Research and pre-clinical Strategies in Radiation Oncology, March 12-15, 2006, Lugano, Switzerland.

Chairman of the Preclinical Research Session at the 23rd Annual Meeting of the European Society for Hyperthermic Oncology, May 24-27, 2006, Berlin, Germany.

Chairman of the Characterisation Session at the 10th International Workshop on the Tumor Microenvironment: Hypoxia, angiogenesis and vasculature, September 15-17, 2006, Boston, USA.

Chairman of the Session on Vascular Targeting at the 24th Annual Meeting of the European Society for Therapeutic Radiology and Oncology, October 8-12, 2006, Leipzig, Germany.

Chairman of the Session on Mechanisms and experimental therapy at the 20th Annual Meeting of the Danish Association for Cancer Research, May 11, 2007, Vilvorde, Denmark.

Chairman of the Session on Vascular mediated responses to heat at the 3rd European Society for Hyperthermic Oncology Educational Day, June 13, 2007, Prague, Czech Republic.

Chairman of the Session on Biological Developments at the 24th Annual Meeting of the European Society for Hyperthermic Oncology, June 14-16, 2007, Prague, Czech Republic.

Chairman of the Session on Physiological effects of Hyperthermia at the 10th International Congress on Hyperthermic Oncology, April 9-12, 2008, Munich, Germany.

Chairman of the Session on Pathological Considerations at the 11th International Workshop on the Tumor Microenvironment: Hypoxia, angiogenesis and vasculature, May 15-17, 2008, Miami, USA.

Chairman of the Session on Hypoxia and Vasculature at the 25th Annual Meeting of the European Society for Therapeutic Radiology and Oncology, September 14-18, 2008, Göteborg, Sweden.

Session Chairman International Conference on Tumor hypoxia and malignant progression, October 1-4, 2008, Kiev, Ukraine.

Chairman of the Session on Biological Imaging at the 4th International Conference on Translational Research and pre-clinical Strategies in Radiation Oncology, March 11-13, 2009, Geneva, Switzerland.

Chairman of the Biological Session on Chemo-hyperthermia in disease progression at the 25th Annual Meeting of the European Society for Hyperthermic Oncology, June 4-6, 2009, Verona, Italy.

Chairman of the Session on Angiogenesis and Cancer Therapies at the 25th Annual Meeting of the European Society for Hyperthermic Oncology, June 4-6, 2009, Verona, Italy.

Chairman of the Session on Imaging and Therapy Predictions at the 12th International Workshop on the Tumor Microenvironment: Hypoxia, angiogenesis and vasculature, May 2-5, 2010, Toronto, Canada.

Chairman of the Session on Pathophysiological Effects at the 26th Annual Meeting of the European Society for Hyperthermic Oncology, May 20-22, 2010, Rotterdam, The Netherlands.

Chairman of the Keynote Lecture on Thermotherapy with Magnetic Nanoparticles at the 27th Annual Meeting of the European Society for Hyperthermic Oncology, May 26-28, 2011, Aarhus, Denmark.

Chairman of the Session on Establishing Hyperthermia in Australia at the 27th Annual Meeting of the European Society for Hyperthermic Oncology, May 26-28, 2011, Aarhus, Denmark.

Chairman of the Session on Tumor Physiology, Therapy Response and Resistance at the 13th International Workshop on the Tumor Microenvironment: Hypoxia, angiogenesis and vasculature, May 2-4, 2013, Miami, USA.

Chairman of the Session on Biological Imaging Developments at the 11th Acta Oncologica Symposium BiGART 2013, June 11-13, 2013, Aarhus, Denmark.

Chairman of the Session on Innovations and Targets at the 28th Annual Meeting of the European Society for Hyperthermic Oncology, June 19-22, 2013, Munich, Germany.

Chairman of the Session on Biological Developments at the 29th Annual Meeting of the European Society for Hyperthermic Oncology, June 11-14, 2014, Torino, Italy.

Chairman of the Session on Tumor Oxygenation: Impact on Cancer Therapy at the 60th Annual Meeting of the Radiation Research Society, September 21-24, 2014, Las Vegas, USA.

Chairman of a poster session at the Aarhus University Graduate School of Health PhD Day, January 23, 2015, Aarhus, Denmark.

Chairman of the Session on Radiosensitization at the 15th International Congress of Radiation Research, May 25-29, 2015, Kyoto, Japan.

Chairman of the Session on Radiobiology of Human Tumors: Guidance for Therapy at the 13th Acta Oncologica Symposium BiGART 2015, June 10-12, 2015, Aarhus, Denmark.

Chairman of the Biology Session at the 30th Annual Meeting of the European Society for Hyperthermic Oncology, June 24-26, 2015, Zurich, Switzerland.

Chairman of the Session on Hypoxia: Imaging, Detection and Significance at the 14th International Workshop on the Tumor Microenvironment: Hypoxia, angiogenesis and vasculature, August 27-29, 2015, Vancouver, Canada.

Chairman of a poster session at the Aarhus University Graduate School of Health PhD Day, January 22, 2016, Aarhus, Denmark.

Chairman of the Session on Emerging Hyperthermia Biology at the 12th International Congress on Hyperthermic Oncology, April 11-15, 2016, New Orleans, USA.

Chairman of the Session on Imaging, Biomarkers and Therapeutic Prediction at the 15th International Workshop on the Tumor Microenvironment: Hypoxia, angiogenesis and vasculature, April 27-29, 2017, Miami, USA.

Chairman of the Poster Discussion Session on Radiobiological/Pre-clinical Studies at the 14th Acta Oncologica Symposium BiGART 2017, June 13-16, 2017, Aarhus, Denmark.

Replacement Chairman (substitute due to illness) of Educational Session 1 at the 31st Annual Meeting of the European Society for Hyperthermic Oncology, June 21-23, 2017, Athens, Greece.

Chairman of Oral Presentation Session 5 at the 31st Annual Meeting of the European Society for Hyperthermic Oncology, June 21-23, 2017, Athens, Greece

Invited lectures at meetings, congresses and symposia

"Lund Science Award" Lecture, at the 5th International Congress of Hyperthermic Oncology, August 1988, Kyoto, Japan.

NATO Advanced Research Workshop on Selective Activation of Drugs by Redox Processes, August 1989, Fermo, Italy.

The 10th Annual European Society for Hyperthermic Oncology Meeting, September 1989, Amsterdam, The Netherlands.

EORTC Radiotherapy Group Consensus Meeting on Tumour Hypoxia, December 1989, Leuven, Belgium.

COMAC-BME Workshop on Clinical Evaluation of Hyperthermia, February 1990, Copenhagen, Denmark.

ARCON Workshop on Accelerated Radiotherapy with Carbogen/Oxygen and Nicotinamide, June 1991, Gray Laboratory, England.

The 12th Annual European Society for Hyperthermic Oncology Meeting, June 1991, Bergen, Norway.

Workshop on Bioreductive Drugs, Sensitizers, Oxygen, and Radiation, October 1991, Vienna, Austria.

Symposium on Treatment Resistance, Danish Society for Medical Oncology, January 1992, Helsingør, Denmark.

The 40th Annual Radiation Research Society Meeting, March 1992, Salt Lake City, UT, USA.

The 6th International Congress of Hyperthermic Oncology, April 1992, Tucson, AZ, USA.

The 11th Annual Meeting of the European Society for Therapeutic Radiology and Oncology, September 1992, Malmö, Sweden.

Workshop on The Potential of NMR Spectroscopy for In Vivo Cancer Research, April 1993, Aarhus, Denmark.

The 2nd ARCON Workshop on Accelerated Radiotherapy with Carbogen and Nicotinamide, March 1994, Northwood, England.

The 2nd International Expert Meeting on Tumour Oxygenation, March 1994, Hamburg, Germany.

The 14th Annual European Society for Hyperthermia Oncology Meeting, June 1994, Amsterdam, The Netherlands.

Symposium in Honour of Lars-Gunnar Larsson's 75th Birthday, June 1994, Umeå, Sweden.

The 13th Annual Meeting of the European Society for Therapeutic Radiology and Oncology, September 1994, Granada, Spain.

The 43rd Annual Radiation Research Society Meeting, April 1995, San Jose, CA, USA.

Symposium on Tumour Oxygenation and Radiotherapy, Academic Medical Center, February 1996, Amsterdam, The Netherlands.

The European Nuclear Medicine Congress, September 1996, Copenhagen, Denmark.

The 2nd International Conference on Redox Processes and Cancer: Molecular Biology and Therapeutics, April 1997, Banff, Alberta, Canada.

The 10th International Conference on Chemical Modifiers of Cancer Treatment, January 1998, Clearwater, FL, USA.

The 17th Annual North American Hyperthermia Society Meeting, April 1998, Louisville, KY, USA.

The Dr. Paul Janssen Medical Institute Symposium on Tumour Oxygenation, March 1999, Munich, Germany.

The 8th Symposium on the Medical Applications of Cyclotrons, May 1999, Turku, Finland.

The 18th Annual Meeting of the European Society for Hyperthermic Oncology, September 1999, Rotterdam, The Netherlands.

The Danish Society for Medical Oncology Annual Meeting, January 2000, Helsingør, Denmark.

The 19th Annual Meeting of the European Society for Therapeutic Radiology and Oncology, September 2000, Istanbul, Turkey.

The Annual Meeting of the Belgium Society for Cancer Research, January 2001, Brussels, Belgium.

The 18th North American Hyperthermia Society Annual Scientific Meeting, April 2001, San Juan, Puerto Rico.
Scandinavian Congress in Clinical Physiology and Nuclear Medicine, April 2001, Aarhus, Denmark.
The 4th Nordic Conference on Radiation Oncology, June 2001, Aarhus, Denmark.
The 1st ESTRO Workshop on Biology in Radiation Oncology, June 2001, Fuglsø, Denmark.
The XI Congress of the Spanish Association for Radiotherapy and Oncology, October 2001, Murcia, Spain.
The Danish Society for Biochemistry and Molecular Biology Symposium on From Gas to Gene: Molecular Mechanism of Oxygen Sensing in Health and Disease, February 2002, Copenhagen, Denmark.
The Dansk Selskab for Onkologi Annual Meeting, April 2002, Middlefart, Denmark.
The 49th Annual Radiation Research Society Meeting, April 2002, Reno, NV, USA.
The 1st International Conference on Vascular Targeting, June 2002, Boston, MA, USA.
The 8th International Workshop on the Tumor Microenvironment and its Impact on Cancer Therapies, May 2003, Miami, FL, USA.
The 2nd ESTRO Workshop on Biology in Radiation Oncology, June 2003, Nijmegen, The Netherlands.
The 21st Annual Meeting of the European Society for Hyperthermic Oncology, June 2003, Munich, Germany.
Annual Meeting for Young Oncologists, November 2003, Albertslund, Denmark.
The 9th International Congress on Hyperthermic Oncology, April, 2004, St. Louis, MO, USA.
The 2nd International Conference on Vascular Targeting, May 2004, Miami, FL, USA.
The 23rd Annual Meeting of the European Society for Therapeutic Radiology and Oncology, September 2004, Amsterdam, The Netherlands.
The 1st Scandinavian Medical Educational Workshop, April 2005, Stockholm, Sweden.
The 1st European Society for Hyperthermic Oncology Educational Day, June, 2005, Graz, Austria.
The 24th Annual Meeting of the European Society for Therapeutic Radiology and Oncology, October, 2006, Leipzig, Germany.
The 3rd European Society for Hyperthermic Oncology Educational Day, May, 2007, Prague, Czech Republic.
The 24th Annual Meeting of the European Society for Hyperthermic Oncology, May, 2007, Prague, Czech Republic.
The Association for Radiation Research Annual Meeting, April, 2008, Manchester, UK.
The 10th International Congress on Hyperthermic Oncology, April, 2008, Munich, Germany.
The 25th Annual Meeting of the European Society for Therapeutic Radiology and Oncology, September, 2008, Göteborg, Sweden.
The International Conference on Tumor hypoxia and malignant progression, October, 2008, Kiev, Ukraine.
The European Union 6th Framework BioCare Project Consensus Meeting, December, 2008, Brussels, Belgium.
The 4th International Conference on Translational Research and pre-clinical Strategies in Radiation Oncology, March, 2009, Geneva, Switzerland.
The 5th European Society for Hyperthermic Oncology Educational Day, June, 2009, Verona, Italy.
The 25th Annual Meeting of the European Society for Hyperthermic Oncology, June, 2009, Verona, Italy.
The 15th Annual Meeting of the German Society for Radiooncology, June, 2009, Bremen, Germany. ViVox workshop: Tools for cell therapy, November, 2009, Aarhus, Denmark.
The Association for Radiation Research Annual Meeting, June 2010, Oxford, UK.
The International Conference on Tumor and Host: novel aspects of old problem, September 2010, Kiev, Ukraine. Thermal Workshop on RF Hotspots, March, 2011, Zurich, Switzerland.
Radiation Oncology in Prostate Cancer Conference, April, 2011, Munich, Germany.
The 7th Biennial Conference of the Indian Association of Hyperthermic Oncology and Medicine, February 2012, Indore, India.
The 5th International Conference on Translational Research and Pre-Clinical Strategies in Radiation Oncology, March, 2012, Geneva, Switzerland.
The 29th Annual Meeting of the European Society for Therapeutic Radiology and Oncology, May, 2012, Barcelona, Spain.
The Annual Meeting of the Radiation Research Society, October, 2012, Puerto Rico.
The 2nd International Conference on Tumor Microenvironment and Cellular Stress: Signalling, Metabolism, Imaging and Therapeutic Targets, September, 2013, Corfu, Greece.
The European Society for Hyperthermic Oncology School on Hyperthermia & Thermal Ablation in Cancer Therapy, February, 2014, Huntsham, UK.
The 6th International Conference on Translational Research in Radiation Oncology, February, 2014, Geneva, Switzerland.
The 29th Annual Meeting of the European Society for Hyperthermic Oncology, June, 2014, Torino, Italy.
The Annual Meeting of the Radiation Research Society, September, 2014, Las Vegas, USA.
Workshop on Translational Research in Ion Beam Cancer Therapy, October 2014, Aarhus, Denmark.
The Winter School for Therapeutic Ultrasound, March 8-13, 2015, Les Houches, France.
The 3rd European Society for Therapeutic Radiology & Oncology Forum, April 24-28 2015, Barcelona, Spain.
The 15th International Congress of Radiation Research, May 25-29, 2015, Kyoto, Japan.
The 30th Annual Meeting of the European Society for Hyperthermic Oncology, June 24-27, 2015, Zurich, Switzerland.
The Annual Meeting of the European Association for Nuclear Medicine, October 10-14, 2015, Hamburg, Germany.
The J.M. Brown Retirement Symposium, May 20-21, 2016, Palo Alto, California, USA.
The 4th International Conference on Tumor Microenvironment and Cellular Stress: Signalling, Metabolism, Imaging and Therapeutic Targets, June 5-10, 2016, Rhodes, Greece.
The Annual Meeting of the Radiation Research Society, October, 2016, Hawaii, USA.
The 31st Annual Meeting of the European Society for Hyperthermic Oncology, June 21-23, 2017, Athens, Greece.
The Winter School for Therapeutic Ultrasound, March 26-31, 2017, Les Houches, France.

National Meeting on Particle Therapy in Denmark, August 21-22, 2017, Aarhus, Denmark.

Other scientific activities

Member of the discussant panel for the Symposium on Clinical Implications for Moderate Hyperthermia at the 16th Annual Meeting of the North American Hyperthermia Society, May 1997, Providence, RI, USA.

Introducer for the Refresher Course "Tumour Microcirculation in Radiotherapy" given by Professor P.W. Vaupel at the 45th Annual Meeting of the Radiation Research Society, May 1997, Providence, RI, USA.

Abstract Reviewer for the 43rd Annual Meeting of the American Society for Therapeutic Radiology and Oncology, November 2001, San Francisco, CA, USA.

Member of the Panel Discussion at the PTAC Workshop on MRI Methodology for the Pharmacodynamic Assessment of Antivascular and Antiangiogenic Agents, March 2002, London, England.

Member of the WHO Temperature Workshop, March 2002, Geneva, Switzerland.

Member of the Selection Committee for Best Oral Presentation at the Danish Society for Cancer Research Annual Meeting, May 2002, Vilvorde, Denmark.

Abstract Reviewer for the 45th Annual Meeting of the American Society for Therapeutic Radiology and Oncology, October 2003, Salt Lake City, Utah, USA.

Member of the Antivascular therapy taxonomy and terminology expert panel meeting, December 2003, London, UK.

Abstract Reviewer for the 46th Annual Meeting of the American Society for Therapeutic Radiology and Oncology, October 2004, Atlanta, GA, USA.

Member of the International Atomic Energy Agency Technical Meeting Committee August, 2004, Budapest, Hungary.

Abstract Reviewer for the 47th Annual Meeting of the American Society for Therapeutic Radiology and Oncology, October 2005, Denver, CO, USA.

Abstract Reviewer for the Annual Meetings of the Danish Association for Cancer Research, 2006-2008, Vilvorde, Denmark.

Abstract Reviewer for Biology and Physiology section of the 10th International Congress on Hyperthermic Oncology, April, 2008, Munich, Germany.

Introducer of the Award lecture given by Prof. Hans Skovgaard-Poulsen at the Danish Association for Cancer Research Annual Meeting, April, 2008, Vilvorde, Denmark.

Member of the Selection Committee for Best Poster Presentation at the Danish Association for Cancer Research Annual Meeting, May 2008, Vilvorde, Denmark.

Member of the Selection Committee for Best Biology Poster Presentation at the International Congress of Hyperthermic Oncology, August 2012, Kyoto, Japan.

Member of the Selection Committee for the ESHO Student Awards presented at the 28th Annual Meeting of the European Society for Hyperthermic Oncology, June 2013, Munich, Germany.

Member of the Selection Committee for the ESHO Student Awards presented at the 29th Annual Meeting of the European Society for Hyperthermic Oncology, June 2014, Torino, Italy.

Abstract Reviewer for the 3rd Biology-Guided Adaptive Radiotherapy Symposium, June 2015, Aarhus, Denmark.

Member of the Selection Committee for the ESHO Student Awards presented at the 30th Annual Meeting of the European Society for Hyperthermic Oncology, June 2015, Zurich, Switzerland.

Member of the Selection Committee for Best Poster Presentation at the Danish Association for Cancer Research Annual Meeting, April 2016, Vilvorde, Denmark.

Chairman of the external Scientific Advisory Board for the Cancer Research UK Imaging Centre, January 2017, Sutton, Surrey, UK.

Scientific meeting presentations

Presentations: 499 (with abstracts: 437; without abstracts: 62)

As presenting author: 242

Invited department seminars

M.R.C. Radiobiology Unit, Chilton, Oxon, England (December 1985).

Medical Biophysics Unit, B.C. Cancer Research Center, Vancouver, British Columbia, Canada (August 1986).

M.R.C. Clinical Oncology and Radiotherapeutics Unit, Cambridge, England (November 1987).

C.R.C. Gray Laboratory, Mount Vernon Hospital, Northwood, England (November 1987).

Radiotherapy Research Unit, Institute of Cancer Research, Sutton, England (November 1987).

Dept. Radiation Oncology, University of Pennsylvania, Philadelphia, PA, USA (April 1988).

Medical Biophysics Unit, B.C. Cancer Research Center, Vancouver, British Columbia, Canada (April 1988).

Dept. Radiology, Stanford University Medical Center, Stanford, CA, USA (April 1988).

Medical Biophysics Unit, B.C. Cancer Research Center, Vancouver, British Columbia, Canada (March 1989).

Joint Center for Radiation Therapy, Boston, MA, USA (June 1989).

C.R.C. Gray Laboratory, Mount Vernon Hospital, Northwood, England (December 1989).

C.R.C. Gray Laboratory, Mount Vernon Hospital, Northwood, England (December 1991).

Dept. Radiotherapy, University of Pisa, Pisa, Italy (January 1992).

Medical Biophysics Unit, B.C. Cancer Research Center, Vancouver, British Columbia, Canada (March 1992).

M.R.C. Clinical Oncology and Radiotherapeutics Unit, Cambridge, England (April 1993).

M.R.C. Radiobiology Unit, Chilton, Oxon, England (April 1993).
C.R.C. Gray Laboratory, Mount Vernon Hospital, Northwood, England (April 1993).
Dept. Ecogenetics, University of Lund, Lund, Sweden (January 1994).
Laboratory of Cellular Radiobiology, Gustave-Roussy Institute, Villejuif, France (February 1994).
Radiation Oncology Branch, National Cancer Institute, Bethesda, Maryland, USA (April 1994).
Dept. Radiation Oncology, Stanford University School of Medicine, Stanford, CA, USA (April 1994).
Dept. Radiation Oncology, Duke University Medical Centre, Durham, NC, USA (November 1996).
Dept. Radiation Oncology, University of North Carolina, Chapel Hill, NC, USA (November 1996).
Dept. Radiation Oncology, University of Florida, Gainesville, FL, USA (November 1996).
Dept. Radiation Therapy, University of Essen, Essen, Germany (June 1997).
Matrix Pharmaceutical Inc., Fremont, CA, USA (April 1998).
Dept. Radiology, Washington University School of Medicine, St. Louis, MO, USA (April 1998).
Gray Laboratory Cancer Research Trust, Mount Vernon Hospital, Northwood, England (August 1998).
Dept. Radiation Oncology, Lund University Hospital, Lund, Sweden (September 1998).
Dept. Pharmacology, University of Aarhus, Aarhus, Denmark (December 2000).
Dept. Pharmacology, University of Aarhus, Aarhus, Denmark (April 2003).
Dept. Biochemistry and Immunology, St. George's Hospital Medical School, London, England (February 2005).
Patterson Institute, University of Manchester, Manchester, UK (October 2005).
Dept. Radiation Oncology, University of Florida, Gainesville, FL, USA (August 2010).
Klinikum rechts der Isar, Technical University in Munich, Munich, Germany (August 2011).
The Institute of Cancer Research, Sutton, Surrey, UK (January 2017).
Dept. Radiation Oncology, Academic Medical Center, University of Amsterdam, The Netherlands (March 2017).

Scientific journal involvements

ASSOCIATED EDITOR:

International Journal of Radiation Biology (2012-)
International Journal of Radiation Oncology Biology Physics (1995-2011)
Acta Oncologica (1992-)

MEMBER OF EDITORIAL BOARD:

Journal of Cancer Research and Therapeutics (2011-2016)
International Journal of Hyperthermia (1993-)

GUEST EDITORIAL MEMBER:

Experimental Oncology (1996-2017)

JOURNAL GUEST EDITOR:

Acta Oncologica (1995): 34: (3). Special issue dedicated to the International Workshop on the Tumor Microenvironment - its characterization, modification and clinical implications
International Journal of Hyperthermia: 24: (1). Special issue on Cellular and vascular effects of hyperthermia (2008)
International Journal of Hyperthermia (2010) 26: (3). Special issue on Tumour perfusion and Associated physiology: characterisation and significance for hyperthermia (2010)

MANUSCRIPT REVIEWER:

Over 500 peer reviewed for 65 International Journals

Memberships

Association for Radiation Research
Radiation Research Society
European Society for Hyperthermic Oncology
Society for Experimental Biology and Medicine
British Association for Cancer Research
European Society for Therapeutic Radiology and Oncology
Danish Society for Cancer Research
International Society on Oxygen Transport to Tissue
American Association for Cancer Research
European Society for Radiation Biology
European Association for Cancer Research
American Society for Therapeutic Radiology and Oncology

Publications

Combination of proton- or X-irradiation with anti-PDL1 immunotherapy in two murine oral cancers

Rykkeliid, A. M., Sinha, P. M., Folefac, C. A., Horsman, M. R., Sørensen, B. S., Søland, T. M., Schreurs, O. J. F., Malinen, E. & Edin, N. F. J., 2024, In: Scientific Reports. 14, 1, 8 p., 11569.

In Vitro Characterization of the Bacteria-derived Hypoxia-selective Cytotoxin BE-43547

Busk, M., Eggertsen, P. P., Overgaard, J., Horsman, M. R., Tørring, T., Jacobsen, K. M. & Poulsen, T. B., Dec 2023, In: Anticancer Research. 43, 12, p. 5319-5329 11 p.

Using immunotherapy to enhance the response of a C3H mammary carcinoma to proton radiation

Nielsen, S., Sitarz, M. K., Sinha, P. M., Folefac, C. A., Høyer, M., Sørensen, B. S. & Horsman, M. R., Nov 2023, In: *Acta oncologica* (Stockholm, Sweden). 62, 11, p. 1581-1586 6 p.

A patterns of care analysis of hyperthermia in combination with radio(chemo)therapy or chemotherapy in European clinical centers

Ademaj, A., Veltsista, P. D., Marder, D., Hälg, R. A., Puric, E., Brunner, T. B., Crezee, H., Gabrys, D., Franckena, M., Gani, C., Horsman, M. R., Krempien, R., Lindner, L. H., Maluta, S., Notter, M., Petzold, G., Abdel-Rahman, S., Richetti, A., Thomsen, A. R. & Tsoutsou, P. & 4 others, Fietkau, R., Ott, O. J., Ghadjar, P. & Riesterer, O., May 2023, In: *Strahlentherapie und Onkologie*. 199, 5, p. 436-444 9 p.

The effect of single bout and prolonged aerobic exercise on tumor hypoxia in mice

Elming, P. B., Busk, M., Wittenborn, T. R., Bussink, J., Horsman, M. R. & Lønbro, S., Mar 2023, In: *Journal of Applied Physiology*. 134, 3, p. 692-702 11 p.

Therapeutic Modification of Hypoxia

Horsman, M. R., Sørensen, B. S., Busk, M. & Siemann, D. W., Nov 2021, In: *Clinical Oncology*. 33, 11, p. e492-e509 18 p.

Refinement of an established procedure and its application for identification of hypoxia in prostate cancer xenografts

Elming, P. B., Wittenborn, T. R., Busk, M., Sørensen, B. S., Thomsen, M. B. H., Strandgaard, T., Dyrskjøt, L., Nielsen, S. & Horsman, M. R., Jun 2021, In: *Cancers*. 13, 11, 2602.

Does the combination of hyperthermia with low LET (linear energy transfer) radiation induce anti-tumor effects equivalent to those seen with high LET radiation alone?

Elming, P. B., Sørensen, B. S., Spejlborg, H., Overgaard, J. & Horsman, M. R., 2021, In: *International Journal of Hyperthermia*. 38, 1, p. 105-110 6 p.

In vitro hypoxia responsiveness of [¹⁸F] FDG and [¹⁸F] FAZA retention: influence of shaking versus stagnant conditions, glass versus polystyrene substrata and cell number down-scaling

Busk, M., Horsman, M. R., Overgaard, J. & Jakobsen, S., 1 Dec 2020, In: *EJNMMI Radiopharmacy and Chemistry*. 5, 1, 14.

Proton scanning and X-ray beam irradiation induce distinct regulation of inflammatory cytokines in a preclinical mouse model

Nielsen, S., Bassler, N., Grzanka, L., Swakon, J., Olko, P., Horsman, M. R. & Sørensen, B. S., Oct 2020, In: *International Journal of Radiation Biology*. 96, 10, p. 1238-1244 7 p.

Tumors resistant to checkpoint inhibitors can become sensitive after treatment with vascular disrupting agents

Horsman, M. R., Wittenborn, T. R., Nielsen, P. S. & Elming, P. B., Jul 2020, In: *International Journal of Molecular Sciences*. 21, 13, p. 1-14 14 p., 4778.

Molecular and biological rationale of hyperthermia as radio- and chemosensitizer

Oei, A. L., Kok, H. P., Oei, S. B., Horsman, M. R., Stalpers, L. J. A., Franken, N. A. P. & Crezee, J., 2020, In: *Advanced Drug Delivery Reviews*. 163-164, p. 84-97 14 p.

Dual-tracer PET of viable tumor volume and hypoxia for identification of necrosis-containing radio-resistant Sub-volumes

Busk, M., Horsman, M. R., Overgaard, J. & Jakobsen, S., 2019, In: *Acta Oncologica*. 58, 10, p. 1476-1482 7 p.

Reliability of blood lactate as a measure of exercise intensity in different strains of mice during forced treadmill running

Lønbro, S., Wiggins, J. M., Wittenborn, T., Elming, P. B., Rice, L., Pampo, C., Lee, J. A., Siemann, D. W. & Horsman, M. R., 2019, In: *PLOS ONE*. 14, 5, 15 p., e0215584.

APD-Containing Cyclolipodepsipeptides Target Mitochondrial Function in Hypoxic Cancer Cells

Jacobsen, K. M., Villadsen, N. L., Tørring, T., Nielsen, C. B., Salomón, T., Nielsen, M. M., Tsakos, M., Sibbersen, C., Scavenius, C., Nielsen, R., Christensen, E. I., Guerra, P. F., Bross, P., Pedersen, J. S., Enghild, J. J., Johannsen, M.,

Frøkiær, J., Overgaard, J., Horsman, M. R. & Busk, M. & 1 others, Poulsen, T. B., Nov 2018, In: Cell Chemical Biology. 25, 11, p. 1337-1349.e12 13 p.

Enhancing the radiation response of tumors but not early or late responding normal tissues using a vascular disrupting agent

Horsman, M. R., Nov 2017, In: Acta Oncologica. 56, 11, p. 1634-1638 5 p.

Hypoxia positron emission tomography imaging: combining information on perfusion and tracer retention to improve hypoxia specificity

Busk, M., Munk, O. L., Jakobsen, S. S. & Horsman, M. R., Nov 2017, In: Acta Oncologica. 56, 11, p. 1583-1590 8 p.

Relative biological effectiveness (RBE) and distal edge effects of proton radiation on early damage in vivo

Sørensen, B. S., Bassler, N., Nielsen, S., Horsman, M. R., Grzanka, L., Spejlborg, H., Swakoń, J., Olko, P. & Overgaard, J., Nov 2017, In: Acta Oncologica. 56, 11, p. 1387-1391 5 p.

Realizing the Potential of Vascular Targeted Therapy: The Rationale for Combining Vascular Disrupting Agents and Anti-Angiogenic Agents to Treat Cancer

Siemann, D. W., Chaplin, D. J. & Horsman, M. R., 14 Sept 2017, In: Cancer Investigation. 35, 8, p. 519-534 16 p.

Results from (11)C-metformin-PET scans, tissue analysis and cellular drug-sensitivity assays questions the view that biguanides affects tumor respiration directly

Iversen, A. B., Horsman, M. R., Jakobsen, S., Jensen, J. B., Garm, C., Jessen, N., Breining, P., Frøkiær, J. & Busk, M., 25 Aug 2017, In: Scientific Reports. 7, 1, p. 9436 13 p., 9436.

FDG-PET reproducibility in tumor-bearing mice: comparing a traditional SUV approach with a tumor-to-brain tissue ratio approach

Busk, M., Munk, O. L., Jakobsen, S., Frøkiær, J., Overgaard, J. & Horsman, M. R., May 2017, In: Acta Oncologica. 56, 5, p. 706-712 7 p.

Targeting therapy-resistant cancer stem cells by hyperthermia

Oei, A. L., Vriend, L. E. M., Krawczyk, P. M., Horsman, M. R., Franken, N. A. P. & Crezee, J., 2017, In: International Journal of Hyperthermia. 33, 4, p. 419-427 12 p.

The potential of hyperpolarized (13)C magnetic resonance spectroscopy to monitor the effect of combretastatin based vascular disrupting agents

Iversen, A. B., Busk, M., Bertelsen, L. B., Laustsen, C., Munk, O. L., Nielsen, T., Wittenborn, T. R., Bussink, J., Lok, J., Stødkilde-Jørgensen, H. & Horsman, M. R., 2017, In: Acta Oncologica. 56, 11, p. 1-8 8 p.

Simulation of heterogeneous molecular delivery in tumours using μ CT reconstructions and MRI validation

Wittenborn, T. R., Nielsen, T., Thomsen, J. S., Horsman, M. R. & Nygaard, J. V., 26 Aug 2016, In: Microvascular Research. 108, p. 69-74 6 p.

The impact of hypoxia and its modification of the outcome of radiotherapy

Horsman, M. R. & Overgaard, J., 16 Aug 2016, In: Journal of Radiation Research. 57, 1, p. 90-98 9 p.

Synthesis and biochemical evaluation of benzoylbenzophenone thiosemicarbazone analogues as potent and selective inhibitors of cathepsin L

Parker, E. N., Song, J., Kishore Kumar, G. D., Odutola, S. O., Chavarria, G. E., Charlton-Sevcik, A. K., Strecker, T. E., Barnes, A. L., Sudhan, D. R., Wittenborn, T. R., Siemann, D. W., Horsman, M. R., Chaplin, D. J., Trawick, M. L. & Pinney, K. G., 1 Nov 2015, In: Bioorganic & Medicinal Chemistry. 23, 21, p. 6974-6992 19 p.

Relative biological effectiveness of carbon ions for tumor control, acute skin damage and late radiation-induced fibrosis in a mouse model

Sørensen, B. S., Horsman, M. R., Alsner, J., Overgaard, J., Durante, M., Scholz, M., Friedrich, T. & Bassler, N., 21 Oct 2015, In: Acta Oncologica. 54, 9, p. 1623-1630 8 p.

Photoelectron Spectra and Electronic Structures of the Radiosensitizer Nimorazole and Related Compounds

Feketeová, L., Plekan, O., Goonewardane, M., Ahmed, M., Albright, A. L., White, J., O'Hair, R. A. J., Horsman, M. R., Wang, F. & Prince, K. C., 1 Oct 2015, In: Journal of Physical Chemistry Part A: Molecules, Spectroscopy, Kinetics, Environment and General Theory. 119, 39, p. 9986-95 10 p.

Hyperpolarized magnetic resonance spectroscopy for assessing tumor hypoxia

Iversen, A. B., Ringgaard, S., Laustsen, C., Stødtkilde-Jørgensen, H., Bentzen, L., Busk, M. & Horsman, M. R., 4 Sept 2015, In: Acta Oncologica. p. 1393-1398 6 p.

Modulation of the tumor vasculature and oxygenation to improve therapy

Siemann, D. W. & Horsman, M. R., Sept 2015, In: Pharmacology & Therapeutics. 153, 9, p. 107-24 18 p.

The usability of a 15-gene hypoxia classifier as a universal hypoxia profile in various cancer cell types

Sørensen, B. S., Knudsen, A. B., Wittrup, C. F., Nielsen, S., Aggerholm-Pedersen, N., Busk, M., Horsman, M., Høyer, M., Bouchelouche, P. N., Overgaard, J. & Alsner, J., Sept 2015, In: Radiotherapy & Oncology. 116, 3, p. 346-51 6 p.

A tissue-engineered therapeutic device inhibits tumor growth in vitro and in vivo

Sun, M., Wang, M., Chen, M., Dagnaes-Hansen, F., Le, D. Q. S., Baatrup, A., Horsman, M. R., Kjems, J. & Bünger, C., May 2015, In: Acta Biomaterialia. 18, p. 21-29 9 p.

Therapeutic potential of using the vascular disrupting agent OXi4503 to enhance mild temperature thermoradiation

Horsman, M. R., May 2015, In: International Journal of Hyperthermia. 31, 5, p. 453-9 7 p.

Uniform Combretastatin-induced Effect on Monocytes and Neutrophils in Peripheral Blood but Not in Tumors

Bohn, A. B., Brems-Eskildsen, A. S., Møller, B. K. & Horsman, M. R., May 2015, In: Anticancer Research. 35, 5, p. 2559-64 6 p.

Relative biological effectiveness of carbon ions for tumor control, acute skin damage and late radiation-induced fibrosis in a mouse model

Sørensen, B. S., Horsman, M. R., Alsner, J., Overgaard, J., Durante, M., Scholz, M., Friedrich, T. & Bassler, N., 2015, In: Acta Oncologica. 54, 9, p. 1623-1630 8 p.

Simultaneous Hypoxia and Low Extracellular pH Suppress Overall Metabolic Rate and Protein Synthesis In Vitro

Sørensen, B. S., Busk, M., Overgaard, J., Horsman, M. R. & Alsner, J., 2015, In: PLOS ONE. 10, 8, 14 p., e0134955.

Targeting tumour hypoxia to improve outcome of stereotactic radiotherapy

Wittenborn, T. R. & Horsman, M. R., 2015, In: Acta Oncologica. 54, 9, p. 1385-92 8 p.

Effect of radiation on cell proliferation and tumor hypoxia in HPV-positive head and neck cancer in vivo models

Sørensen, B. S., Busk, M., Horsman, M. R., Alsner, J., Overgaard, J., Kyle, A. H. & Minchinton, A. I., Nov 2014, In: Anticancer Research. 34, 11, p. 6297-304 8 p.

In vivo bio-distribution and homing of endothelial outgrowth cells in a tumour model

Bertelsen, L. B., Hagensen, M., Busk, M., Zhang, R., Knudsen, A. S., Nielsen, N., Falborg, L., Møller, B. K., Horsman, M. R. & Stødtkilde-Jørgensen, H., 1 Aug 2014, In: Nuclear Medicine and Biology. p. 848-855 8 p.

Formation of radical anions of radiosensitizers and related model compounds via electrospray ionization

Feketeová, L., Albright, A. L., Sørensen, B. S., Horsman, M. R., White, J., O'Hair, R. A. J. & Bassler, N., 15 May 2014, In: International Journal of Mass Spectrometry. 365-366, p. 56-63 8 p.

Accumulation of nano-sized particles in a murine model of angiogenesis

Wittenborn, T. R., Larsen, E. K. U., Nielsen, T., Rydtoft, L. M., Hansen, L., Nygaard, J. V., Vorup-Jensen, T., Kjems, J., Horsman, M. R. & Nielsen, N. C., 10 Jan 2014, In: Biochemical and Biophysical Research Communications. 443, 2, p. 470-6 7 p.

A combretastatin-mediated decrease in neutrophil concentration in peripheral blood and the impact on the anti-tumor activity of this drug in two different murine tumor models

Bohn, A. B., Wittenborn, T., Brems-Eskildsen, A. S., Laurberg, T., Bertelsen, L. B., Nielsen, T., Stødkilde-Jørgensen, H., Møller, B. K. & Horsman, M. R., 2014, In: PLOS ONE. 9, 10, p. e110091

Treatment with a vascular disrupting agent does not increase recruitment of indium labelled human endothelial outgrowth cells in an experimental tumour model

Bertelsen, L. B., Bohn, A. B., Shen, Y. Y., Falborg, L., Stødkilde-Jørgensen, H. & Horsman, M. R., 2014, In: B M C Cancer. 14, p. 903 9 p.

Induction of hypoxia by vascular disrupting agents and the significance for their combination with radiation therapy

Iversen, A. B., Busk, M. & Horsman, M. R., Oct 2013, In: Acta Oncologica. 52, 7, p. 1320-6 7 p.

Relevance of hypoxia in radiation oncology: pathophysiology, tumor biology and implications for treatment

Busk, M. & Horsman, M. R., Sept 2013, In: Quarterly Journal of Nuclear Medicine and Molecular Imaging. 57, 3, p. 219-234 16 p.

Ultra-high field (1)H magnetic resonance imaging approaches for acute hypoxia

Nielsen, T., Nielsen, N. C., Holm, T. H., Ostergaard, L., Horsman, M. R. & Busk, M., 30 Aug 2013, In: Acta Oncologica. 52, 7, p. 1287-1292

Radiosensitivity and effect of hypoxia in HPV positive head and neck cancer cells

Sørensen, B. S., Busk, M., Olthof, N., Speel, E.-J., Horsman, M. R., Alsner, J. & Overgaard, J., 13 Aug 2013, In: Radiotherapy & Oncology. 108, 3, p. 500-505 6 p.

The relationship between tumor blood flow, angiogenesis, tumor hypoxia, and aerobic glycolysis

Østergaard, L., Tietze, A., Nielsen, T., Drasbek, K. R., Mouridsen, K., Jespersen, S. N. & Horsman, M. R., 13 Jun 2013, In: Cancer Research. 73, 18, p. 5618-5624 7 p.

Hydralazine-induced enhancement of hyperthermic damage in a C3H mammary carcinoma in vivo

Horsman, M. R., Christensen, K. L. & Overgaard, J., Apr 2013, In: International Journal of Hyperthermia. 5, 2, p. 123-36 14 p.

Peritoneal macrophages mediated delivery of chitosan/siRNA nanoparticle to the lesion site in a murine radiation-induced fibrosis model

Nawroth, I., Alsner, J., Deleuran, B. W., Dagnæs-Hansen, F., Yang, C., Horsman, M. R., Overgaard, J., Howard, K., Kjems, J. & Gao, S., 1 Jan 2013, In: Acta Oncologica. 52, 8, p. 1730-1738 9 p.

PET hypoxia imaging with FAZA: reproducibility at baseline and during fractionated radiotherapy in tumour-bearing mice

Busk, M., Mortensen, L. S., Nordmark, M., Overgaard, J., Jakobsen, S., Hansen, K. V., Theil, J., Kallehauge, J., D'Andrea, F. P., Steiniche, T. & Horsman, M. R., Jan 2013, In: European Journal of Nuclear Medicine and Molecular Imaging. 40, 2, p. 186-97 12 p.

PET imaging of tumor hypoxia using ¹⁸F-labeled pimonidazole

Busk, M., Jakobsen, S., Horsman, M. R., Mortensen, L. S., Iversen, A. B., Overgaard, J., Nordmark, M., Ji, X., Lee, D. Y. & Raleigh, J. R., 2013, In: Acta Oncologica. 52, 7, p. 1300-1307 8 p.

Tumour microenvironment and radiation response in sarcomas originating from tumorigenic human mesenchymal stem cells

D'Andrea, F. P., Safwat, A. A., Burns, J. S., Kassem, M., Horsman, M. R. & Overgaard, J., Jun 2012, In: International Journal of Radiation Biology. 88, 6, p. 457-465 9 p.

Combretastatin A-4 phosphate affects tumor vessel volume and size distribution as assessed using MRI-based vessel size imaging

Nielsen, T., Bentzen, L., Pedersen, M. N., Tramm, T., Rijken, P. F. J. W., Bussink, J., Horsman, M. R. & Østergaard, L., 2012, In: *Clinical Cancer Research*. 18, 23, p. 6469-77 9 p.

Imaging hypoxia to improve radiotherapy outcome

Horsman, M. R., Mortensen, L. S., Petersen, J. B., Busk, M. & Overgaard, J., 2012, In: *Nature Reviews. Clinical Oncology*. 9, 12, p. 674-87 14 p.

Initial evaluation of the antitumour activity of KGP94, a functionalized benzophenone thiosemicarbazone inhibitor of cathepsin L

Chavarria, G. E., Horsman, M. R., Arispe, W. M., Kumar, G. D. K., Chen, S.-E., Strecker, T. E., Parker, E. N., Chaplin, D. J., Pinney, K. G. & Trawick, M. L., 2012, In: *European Journal of Medicinal Chemistry*. 58, p. 568-72 5 p.

Treatment with the vascular disrupting agent Combretastatin is associated with impaired AQP2 trafficking and increased urine output

Bohn, A. B., Norregaard, R., Stødkilde-Jørgensen, L., Wang, Y., Bertelsen, L. B., Fenton, R. A., Matchkov, V. V., Bouzinova, E. V., Horsman, M. R., Frokiaer, J. & Stødkilde-Jørgensen, H., 2012, In: *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*. p. R186-R198 13 p.

Tumourigenicity and radiation resistance of mesenchymal stem cells

D'Andrea, F. P., Horsman, M. R., Kassem, M., Overgaard, J. & Safwat, A. A., 2012, In: *Acta Oncologica*. 51, 5, p. 669-679 11 p.

Ultra-High-Field DCE-MRI of Angiogenesis in a Novel Angiogenesis Mouse Model

Wittenborn, T., Nielsen, T., Nygaard, J. V., Larsen, E. K. U., Thim, T., Rydtoft, L. M., Vorup-Jensen, T., Kjems, J., Nielsen, N. C., Horsman, M. R. & Falk, E., 2012, In: *Journal of Magnetic Resonance Imaging*. 35, 3, p. 703-710 7 p.

Vascular effects of plinabulin (NPI-2358) and the influence on tumour response when given alone or combined with radiation

Bertelsen, L. B., Shen, Y. Y., Nielsen, T., Stødkilde-Jørgensen, H., Lloyd, G. K., Siemann, D. W. & Horsman, M. R., Nov 2011, In: *International Journal of Radiation Biology*. 87, 11, p. 1126-1134 9 p.

Cancer stem cell overexpression of nicotinamide N-methyltransferase enhances cellular radiation resistance

D'Andrea, F. P., Safwat, A. A., Kassem, M., Gautier, L., Overgaard, J. & Horsman, M. R., Jun 2011, In: *Radiotherapy & Oncology*. 99, 3, p. 373-378 6 p.

In vivo Identification and Specificity assessment of mRNA markers of hypoxia in human and mouse tumors

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