

CURRICULUM VITAE



NAME

Keith Richard Britton Gallardo, M.D., Ph.D.

TITLE AND AFFILIATION

Primary appointment

Director, Centro Internacional de Radiocirugía y Radioterapia Oncológica, CIRRO, Department of Radiation Oncology, Panama City, PANAMA. August, 2012 to present.

CITIZENSHIP

PANAMA

HOME ADDRESS

San Francisco, Calle 75A, Panamá, PANAMA.

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OFFICE ADDRESS

Centro Internacional de Radiocirugía y Radioterapia Oncológica, CIRRO

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EDUCATION

Degree-Granting Education

- Instituto Superior de Ciencias de la Salud (ISCIS), Panama, Panama, **Clinical research Diplomate**, 2015.
- The University of Texas M. D. Anderson Cancer Center, Houston, Texas, U.S.A., Department of Radiation Oncology (thoracic malignancies), **Post-Doctoral fellow**, 2007.
- The University of Tohoku, Sendai, Japan, Radiation Oncology, **Doctoral degree**. Clinical Image-guided Radiotherapy, **Ph.D.**, 2005.
- Universidad Autónoma de Centroamérica (U.A.C.A.), San Jose, Costa Rica, **Medical Doctor**

Degreee, M.D, Doctor in Medicine, 1997.

Scholar studies, Graduate and Postgraduate Training

- 2005 – 2007 Postdoctoral Fellow, Division of Radiation Oncology, The University of Texas, MD Anderson Cancer Center, Houston, Texas, USA.
- 2000 – 2005 Radiation Oncology residency program: Tohoku University, Graduate School of Medicine, Sendai, JAPAN.
- 1998 – 1999 Medical internship, Changuinola Regional Hospital, Panama city, PANAMA.
- 1997 – 1998 Medical Internship, Social Security Hospital, Panama city, PANAMA.
- 1991 – 1997 Doctor in Medicine, Universidad Autonoma de Centro America (U.A.C.A.), San José, COSTA RICA. Cum Laude Probatus.
- 1978 – 1990 De La Salle, Elementary / High school: Panama City, PANAMA.

CREDENTIALS

Board Certification

Radiation Oncology, Panamanian Technical Council, Ministry of Health, Republic of Panama, July, 2005, Panama City, PANAMA.

Licensure (s)

Active

Panamanian Health Ministry, Idoneus **Radiation Oncology license**, July 2005, Panama City, PANAMA.

Panamanian Health Ministry, Idoneus **Medical Doctor license**, July 1997, Panama City, PANAMA.

Inactive

Japanese Health Ministry, **Medical / clinical license** for foreign physicians enrolled in advanced clinical training in Japan; 2001-2005, Tokyo, JAPAN.

EXPERIENCE/SERVICE

Academic Appointments

Associate Professor, Department of Radiation Oncology, Centro Internacional de Radiocirugía y Radioterapia Oncológica (CIRRO), Panamá, Republic of PANAMA, 2012– present.

Assistant Professor, Department of Radiation Oncology, National Oncology Institute (ION), Panamá, Republic of PANAMA, 2007 – 2012.

Adjunct Assistant Professor, Department of Radiation Oncology, Murcia University post-graduate course. II International Master on Application of Technologies in Radiation Oncology. Madrid, SPAIN, 2010 – 2011.

Adjunct Assistant Professor, Department of Radiation Oncology, Murcia University post-graduate course. I International Master on Application of Advance Technologies in Radiation Oncology. Madrid, SPAIN, 2009 – 2010.

General Practitioner, Balboa Port clinic, International health division, Metropolitan region health, Health ministry of Panama. Panama, Republic of PANAMA, Jan- Apr, 2000.

Academic Administrative Appointments/Responsibilities

Centro Internacional de Radiocirugía y Radioterapia Oncológica, CIRRO.

Director of Education, Department of Radiation Oncology, 2012 – present.

National Oncology Institute (ION)

Director of foreign students (ASTRO) rotation program, Feb-Mar, 2012

Director of foreign students (ARRO) rotation program, Mar-Apr, 2011

Director of Education, Department of Radiation Oncology, 2009 – 2012.

Centro Oncológico punta Pacífica

Director, Radiation Oncology section, Panamá, Republic of PANAMA, 2007 – 2012.

Institutional Committee Activities

National Oncology Institute (ION)

Clinical Quality Control / Assurance Review Committee, 2010- 2012.

Procancer patients foundation (FUNDACANCER)

Prostate cancer prevention screening program, Apr./2010-2012.

Other Appointments/Responsibilities

Vice-president, Latin American Society for Therapeutic Radiation Oncology (ALATRO)

2012 – 2014.

Director, Technical-scientific committee, National Association Against Cancer (ANCEC), Panamá, Republic of PANAMA, 2012 – present.

Sub-Director, Technical-scientific committee, National Association Against Cancer (ANCEC), Panamá, Republic of PANAMA, 2010 – 2012.

Member of the Board, secretary, Medical Association of the National Oncology Institute (AMEION), Panamá, Republic of PANAMA, 2008 – present.

Consultantships

N/A

Military or Other Governmental Service

N/A

HONORS AND AWARDS

SNO Travel Scholarship Award, American Society for Neuro-Oncology Annual meeting. November 15-18, 2012, Washington DC., USA.

IAEA Scholarship Award; International Atomic energy Agency scholarship for “treatment with the use of radiation and radioisotopes”; Instituto Catalán de Oncología (ICO), July 1- Aug. 31, 2010. Barcelona, SPAIN.

IAEA Fellowship Award; European Society for Therapeutic Radiology and Oncology (ESTRO) for “Image-guided Intensity Modulated Radiation Therapy (IMRT) for prostate cancer: influence of organ motion correction associated with acute toxicity and Quality Of Life (QOL)”; International Conference on Advances in Radiation Oncology (ICARO), April 26-29, 2009. Vienna, AUSTRIA.

JRS Fellowship Award; Japan Radiological Society (JRS) for “Reproducibility of 3-D Conformal Radiation Therapy in Locally Advanced Non-small Cell Lung Cancer Using Four Dimensional CT Imaging”, April, 17-19, 2009, Yokohama, JAPAN.

Junior Investigator Award; The Japanese Society of Therapeutic Radiology and Oncology (JASTRO) for “Trends in Mobility and Size of Target Volumes in Locally Advanced Stage-III Non-Small Cell Lung Cancer Patients Using Serial 4-DCT”; November 22-24, 2006, Sendai, JAPAN.

Berlex Oncology Patient-Oriented Distinguished Award; The U. Of T. MD Anderson Cancer Center for “Serial Respiratory-correlated Four-Dimensional Computed Tomography (4-DCT) for precise assessment of inter / intra-fraction lung tumor motion for patients undergoing radiotherapy treatment”; May 2006, Houston, Texas, USA.

Junior Investigator Award; The Japanese association of Three-dimensional Conformal Radiotherapy, Shinji Takahashi memorial international workshop for “Image-guided Intensity Modulated Radiation Therapy (IMRT) for prostate cancer: organ motion uncertainty, its correction and preliminary clinical outcomes” December 12, 2004, Nagoya, JAPAN.

Monbukagakusho International Scholarship; Japanese Health Ministry. Awarded for Radiation Oncology program, 4/2000 - 4/2005; Tokyo, JAPAN.

RESEARCH

Grants

Title: “Public awareness of early diagnosis of breast cancer through media campaign / Training the personal of health on the early detection of breast cancer”

Funding source: Susan G. Komen for the Cure Foundation (Caterpillar Grant), USD.135K

Role: Co-Principal Investigator (co-PI).

Principal Investigator: Juan A. Monterrey, MD.

Duration: 2011 – 2012.

Research proposal: “Image-guided Radiotherapy for Lung Cancer” American Association of Cancer Research (AACR), Nov. 2006 –The proposal though ranked high was not funded.

Protocols

Collaborator: 2003-0962, "Assessing the Magnitude and Potential Impact of Respiration-Induced Three-Dimensional Motion of Tumors and Normal Tissues Using Four-Dimensional CT Technology"; J.D. Cox, MD, principal investigator, R. Mohan, PhD, Co-investigator.

PUBLICATIONS

a. Articles in peer-reviewed journal

- 1) Luis Linares, M.D., Adela Poitevin, M.D., Coautemoc De La Pena, M.D., **Keith Britton, M.D., Ph.D.**, Rosalba Ospino, M.D., Raul Lara, M.D., Gustavo sarria, M.D., Neiro Motta, M.D., Nicholas Rene, M.D., Luis Pinillos, M.D., and Paulo Novaes, M.D. The prescription of oral anticancer drugs: Another perspective. *Rep Pract Oncol Radiother.* Vol. 17(6): 295–297, Nov 2012.
- 2) George Starkschall, Ph.D., Peter Balter, Ph.D., **Keith Britton, M.D., Ph.D.**, Mary F. McAleer, M.D., Ph.D., James D. Cox, M.D., and Radhe Mohan, Ph.D. Interfractional reproducibility of lung tumor location using various methods of respiratory motion mitigation. *Int J Radiat Onc Biol Phys*, Vol: 1;79(2):596-601; Feb 2011.
- 3) **Keith R Britton, M.D., Ph.D.**, George Starkschall, Ph.D., Sandeep Hunjan, PhD., Helen Liu, Ph.D., Joe Y Chang, M.D., Ph.D., Stephen Bilton, CMD, Muthuveni Ezhil, M.D, Sandra John-Baptiste, CMD, Michael Kantor, B.S., James D Cox, M.D., Ritsuko Komaki, M.D. and Radhe Mohan, Ph.D. Four Dimensional CT Imaging Verification of Target Reproducibility for Lung Cancer Radiotherapy. *Int J Radiat Onc Biol Phys*, in revision, 2010.
- 4) **Britton K, M.D., Ph.D**, Yoshihiro Takai, M.D., Masatoshi Mitsuya, Ph.D., Kenji Nemoto, M.D., Yoshihiro Ogawa, M.D., and Shogo Yamada, M.D. Image-guided Intensity Modulated Radiation

Therapy (IMRT) for prostate cancer: influence of organ motion correction associated with acute toxicity and Quality Of Life (QOL). *Tohoku University Journal*, Jul, 2010.

- 5) George Starkschall, Ph.D., **Keith R. Britton, M.D., Ph.D.**, Radhe Mohan, Ph.D., and James D. Cox, MD. Potential Dosimetric benefits of four-dimensional radiation treatment planning. *Int J Radiat Onc Biol Phys*, Vol: 1;73 (5); 1560-65, Apr., 2009.
- 6) **Keith R. Britton, M.D., Ph.D.**, George Starkschall, Ph.D., Helen Liu, Ph.D., Joe Y Chang, M.D., Ph.D., Stephen Bilton, C.M.D., Muthuveni Ezhil, M.D., Sandra John-Baptiste, C.M.D., Michael Kantor, B.S., James D. Cox, M.D., Ritsuko Komaki, M.D., and Radhe Mohan, Ph.D. Consequences of Anatomic Changes and Respiratory Motion on Radiation Dose Distributions in Conformal Radiotherapy for Locally Advanced Non-Small-Cell Lung Cancer. *Int J Radiat Onc Biol Phys*, Vol 73 (1); 94-102, Jan, 2009.
- 7) B Rosen, BS, G Starkschall, Ph.D., **K Britton, M.D., Ph.D.**, R Mohan, Ph.D., JD Cox, M.D. Analysis of Intrafractional and Interfractional Variation in Lung Volumes using Four-Dimensional Computed Tomography. *Int J Radiat Onc Biol Phys*, Vol 72 (issue 1), 288-294, Sept. 2008.
- 8) Soofi W, PhD., Starkschall G, PhD., **Britton K, MD., PhD.** Vedam S. PhD. Determination of an optimal organ set to implement deformations to support four-dimensional dose calculations in radiation therapy planning. *Journal of Applied Clinical Medical Physics*, Vol 9, No. 2, Spring 2008.
- 9) Koto M, MD, Takai Y, MD, Ogawa Y, MD, Matsushita H, MD, Takeda K, MD, Takahashi C, MD, **Britton KR, MD, PhD**, Jingu K, Takai K, Mitsuya M, Nemoto K, Yamada S. A phase II study on stereotactic body radiotherapy for stage I non-small cell lung cancer. *Radiother Oncol*, vol 85(3), pp. 429-434, Dec., 2007.
- 10) **Britton, Keith R.**; Starkschall, George; Liu, Helen; Chang, Joe Y.; Kantor, Michael; Cox, James D.; Mohan, Radhe; Komaki, Ritsuko. What effects do anatomic changes during treatment have on target and normal tissue dosimetry parameters of lung cancer radiotherapy? A multiple 4DCT analysis. *Journal of Thoracic Oncology*, Vol 2 Issue 8 – ppS471-472.
- 11) **Keith R. Britton, M.D., Ph.D.**, George Starkschall, Ph.D., Susan L Tucker, Ph.D., Tinsu Pan, Ph.D., Christopher Nelson, M.S., Joe Y Chang, M.D., Ph.D., James D Cox, M.D., Radhe Mohan, Ph.D., and Ritsuko Komaki, M.D. Assessment of gross tumor volume regression and motion changes during radiation therapy for non-small-cell lung cancer as measured by four-dimensional computed tomography. *Int J Radiat Onc Biol Phys*, vol 68(4), Jul, 2007.

- 12) Y. Takai, MD., M. Mitsuya, PhD., K. Narazaki, MD., T. Sakayauchi, MD., **K.R. Britton, MD., PhD.**, Y. Ogawa, MD., H. Ariga, MD., K. Takeda, MD., K. Jingu, MD., S. Yamada, MD. Image-Guided IMRT Reducing Urethral Dose for prostate Cancer – An Evaluation of Acute Adverse Events. *Int J Radiat Onc Biol Phys*, Vol 66 (issue 3, supplement), S373-S374, Nov, 2006
- 13) **Britton K**, Takai Y, Mitsuya M, Nemoto K, Ogawa Y and Yamada S. Evaluation of inter- and intra-fraction organ motion during Intensity Modulated Radiation Therapy (IMRT) for localized prostate cancer measured by a new developed on-board imager system. *Rad Med.* 23 (1); 14-24, Feb, 2005.
- 14) **K.R. Britton, MD., PhD.**, Y. Takai, MD., M. Mitsuya, PhD., K. Nemoto, MD., Y. Ogawa, MD., S. Yamada, MD. Field-based Verified IMRT for Prostate Cancer Using a Newly Developed Dual Kilovoltage (KV) on-board imager: -evaluation of inter/intrafraction motion and early clinical outcomes. *Int J Radiat Onc Biol Phys*, Vol (60),1, Supplement 1, S473-S473, Sept, 2004.
- 15) Takai Y. **Britton K**, Koto M, Nemoto K, Ogawa Y, Mitsuya M, Yamada S. Clinical feasibility of newly developed dual kv X-ray on-board imager: IMRT for prostate cancer and SRT for early lung cancer. 10th Varian European Users Meeting proceedings, Vol (1), 82-92. May, 2004.
- 16) Nemoto K, Matsushita H, Ogawa Y, Takeda K, Takahashi C, **Britton KR**, Takai Y, Miyazaki S, Miyata T, Yamada S. Radiation therapy combined with cis-diammine- glycolatoplatinum (Nedaplatin) and 5-fluorouracil for untreated and recurrent esophageal cancer. *Am J Clin Oncol.*; 26(1): 46-9, Feb., 2003.
- 17) Ogawa Yoshihiro, Nemoto Kenji, Kakuto Yoshihisa, Ariga Hisanori, Matsushita Haruo, Takeda Ken, Takahashi Chiaki, **Gallardo Britton, Richard Keith**, Takai Yoshihiro and Yamada Shogo. Results of Radiation Therapy for Uterine Cervical Cancer Using High Dose Rate Remote After Loading System. *Tohoku J Exp Med*, 199 (4), pp. 229-238, Feb, 2003.

b. Abstracts Published / Presented

Peter Balter, Ph.D., George Starkschall, Ph.D., **Keith R. Britton, M.D., Ph.D.**, Mary F. McAleer, M.D., Ph.D., Radhe Mohan, Ph.D. and James D. Cox, M.D. The 51st Meeting of the American Society for Therapeutic Radiation Oncology (ASTRO): “Setup Margins for Gated Treatments of Lung Tumors”. Poster presentation; Oct. 31- Nov. 6, 2009, Chicago, USA.

Keith R. Britton, M.D., Ph.D., George Starkschall, Ph.D., Sandeep Hunjan, Ph.D., Joe Y. Chang, M.D., Ph.D., Helen Liu, Ph.D., Stephen Bilton, C.M.D., Michael Kantor, B.S., James D. Cox, M.D., Radhe

Mohan, Ph.D. and Ritsuko Komaki, M.D. The 68th Meeting of Japan Radiological Society (JRS): “Reproducibility of 3-D Conformal Radiation Therapy in Locally Advanced Non-small Cell Lung Cancer Using Four Dimensional CT Imaging”. Oral presentation; Apr. 16-19, 2009, Yokohama, JAPAN.

Keith R. Britton G., M.D., Ph.D., Yoshihiro Takai, M.D., Kenji Nemoto, M.D., Yoshihiro Ogawa, M.D., Masatoshi Mitsuya, Ph.D., Ricardo S. Britton, M.D., and Shogo Yamada, M.D. 1st International Conference on Advances in Radiation Oncology (ICARO): “Image-guided Intensity Modulated Radiation Therapy (IMRT) for prostate cancer: influence of organ motion correction associated with acute toxicity and Quality Of Life (QOL)”. Poster Discussion Session; Apr. 26-29, 2009 Vienna, AUSTRIA.

Keith R Britton, M.D., Ph.D., George Starkschall, Ph.D., Helen Liu, Ph.D., Joe Y Chang, M.D., Ph.D., Stephen Bilton, CMD, Muthuveni Ezhil, M.D, Sandra John-Baptist, CMD, Michael Kantor, GS., James D Cox, M.D., Radhe Mohan, Ph.D. and Ritsuko Komaki, M.D. The 12th World conference on Lung Cancer (IASLC). Dosimetric Consequences of Anatomy Changes during the course treatment on 3DCRT and IMRT dose distributions in Lung Cancer Treatment. Poster discussion session; Sept/2007 Seoul, KOREA.

Keith R. Britton, George Starkschall, Helen Liu, Joe Y. Chang, Michael Kantor, James D. Cox, Radhe Mohan and Ritsuko Komaki. The 5th meeting of Japan-USA conformal therapy international symposium (JUCTS) and the 5th Shinji Takahashi international meeting. What Effects Do Anatomic Changes During Treatment Have on Target and Normal Tissue Dosimetry Parameters of Lung Cancer Radiotherapy?: A Multiple 4DCT Analysis. Poster discussion session; Sept/2007, Sendai, JAPAN.

Keith R. Britton, George Starkschall, Tinsu Pan, Joe Chang, Radhe Mohan and Ritsuko Komaki The 19TH Annual Meeting of the Japanese Society for Therapeutic Radiology and Oncology (JASTRO); “Time Trends in Mobility and Size of Target Volumes in Locally Advanced Stage-III Non-Small Cell Lung Cancer Patients Using Serial 4-DCT”. Oral presentation; Nov/2006, Miyagi, JAPAN.

Keith R. Britton, George Starkschall, Tinsu Pan, Joe Chang, Radhe Mohan and Ritsuko Komaki. The 48th Annual meeting of the American Society for Therapeutic Radiology and Oncology (ASTRO); “Time Trends in Mobility and Size of Target Volumes for Locally Advanced Stage III Non-Small-Cell Lung Cancer Patients Using Serial Four-Dimensional Computed Tomography (4-DCT)”. *Int J Rad Onc Biol phys*, 66(3), supplement, p. S468; Nov, 2006, Philadelphia, USA.

Y. Takai, M. Mitsuya, K. Narazaki, T. Sakayauchi, **K.R. Britton**, Y. Ogawa, H. Ariga, K. Takeda, K. Jingu, S. Yamada. ImageGuided IMRT Reducing Urethral Dose for Prostate Cancer – An Evaluation

of Acute Adverse effects. *Int J Rad Onc Biol phys*, 66(3), supplement, p. S373; Nov, 2006, Philadelphia, USA.

Keith R. Britton, M.D.,Ph.D., George Starkschall, Ph.D., Christopher Nelson, M.S., Ritsuko Komaki, M.D., Radhe Mohan, Ph.D.. The 48th Annual meeting of the American Association of Physics in Medicine (AAPM); “The effects of radiation treatment on respiration-induced lung tumor motion”. Oral presentation; Aug/1-4/2006, Florida, USA.

Y. Takai, M. Mitsuya, K. Narazaki, T. Sakayauchi, **K.R. Britton**, Y. Ogawa, H. Ariga, K. Takeda, K Jingu and S. Yamada. Image-guided IMRT reducing Urethral Dosse for Prostate Cancer – An Evaluation of Adverse Events. March 30/Apr 2/ 2005, Lima, PERU.

Britton K, Takai Y, Yamada S., *et al.* The 1st meeting of the “Asociacion LatinoAmericana de Terapia Radiante y Oncologia”, ALATRO; Quality Assurance in Radiotherapy and Intensity Modulated Radiation Therapy (IMRT). Oral presentation. March 30/Apr 2/ 2005, Lima, PERU.

Britton K, Takai Y, Mitsuya M, Nemoto K, Ogawa Y and Yamada S. The 4th Shinji Takahashi Memorial International Workshop on 3 Dimensional conformal Radiotherapy; “Image-guided Intensity Modulated Radiation Therapy (IMRT) for prostate cancer: organ motion uncertainty, its correction and preliminary clinical outcomes”. Poster presentation; Dec/10-12/2004, Nagoya, JAPAN.

Britton K, Takai Y, Mitsuya M, Nemoto K, Ogawa Y and Yamada S. The 56th North Japan oncological society meeting; “Image-guided Intensity Modulated Radiation Therapy (IGRT) for human prostate cancer: Treatment outcomes and Quality Of Life (QOL)”. Oral presentation; Nov/12 /2004, Sendai City, Miyagi, JAPAN.

Britton K, Takai Y, Mitsuya M, Nemoto K, Ogawa Y and Yamada S. 46th Annual meeting of the American Society for Therapeutic Radiology and Oncology (ASTRO); “Field-based verified IMRT for prostate cancer using a newly developed Dual Kilovoltage (KV) on-board imager–evaluation of inter / intra-fraction motion and early clinical outcomes”. Poster presentation; Oct/3-7/2004, Atlanta, USA.

Britton K, Takai Y, Mitsuya M, Nemoto K, Ogawa Y and Yamada S. The 10th Meeting of Japan 3-D Conformal External Beam Radiotherapy Group; “The impact of inter-fraction and intra-fractional isocenter location error related to dose to target volumes for localized prostate cancer IMRT”. Oral presentation; Jul/2004, Tokyo, JAPAN.

Britton K, Takai Y, Yamada S., *et al.* The 2nd Tohoku–Panama seminar “TOPS”; National Oncology Institute (ION); “IMRT for prostate

cancer”: A physician’s point of view with physical considerations. Oral presentation; Aug/9-13/2004, Panama City, PANAMA.

Britton K, Takai Y, Mitsuya M, Nemoto K, Ogawa Y and Yamada S.

The 16TH Annual Meeting of the Japanese Society for Therapeutic Radiology and Oncology (JASTRO); “Clinical implementation of a Dual X-Ray fluoroscopy with amorphous Si flat panels system for prostate Intensity-Modulated Radiotherapy”. Poster presentation; Nov/2003, Tokyo, JAPAN.

Britton K, Takai Y, Mitsuya M, Nemoto K, Ogawa Y and Yamada S.

The European Society for Therapeutic Radiology and Oncology / the Oncology Cancer Conference (ESTRO, ECCO 12); “A novel system for high-dose radiotherapy for localized prostate cancer”. Poster presentation; Sep/2003, Copenhagen, DENMARK.

Britton K, Takai Y, Mitsuya M, Nemoto K, Ogawa Y and Yamada S.

The 8TH Meeting of Japan 3-D Conformal External Beam Radiotherapy Group; “High-dose Intensity Modulated Radiotherapy for prostate cancer”. Oral presentation; July/2003, Chiba, Tokyo, JAPAN.

Britton K, Takai Y, Mitsuya M, Nemoto K, Ogawa Y and Yamada S. The 53rd North Japan oncological society meeting; “Early clinical outcomes and comparison of IMRT vs. 3D-CRT treatment plans for localized prostate cancer”. Oral presentation; June/12/2003, Yamagata, Tohoku, JAPAN.

Britton K, Takai Y, Mitsuya M, Nemoto K, Ogawa Y and Yamada S. The 2nd meeting of Japan 3-D Conformal External Beam Radiotherapy Group; “Prostate IMRT”. Oral presentation; Feb/2003, Sendai, JAPAN.

Britton K, Takai Y, Yamada S., et al. 1st Tohoku–Panama seminar “TOPS”; Panamanian oncological society; “Conformal radiation therapy for Prostate cancer”. Oral presentation; Oct/2002 Panama City, PANAMA.

Britton K, Takai Y, Mitsuya M, Nemoto K, Ogawa Y and Yamada S. 51st North Japan oncological society meeting; “Preliminary clinical experience with IMRT for localized prostate cancer”. Oral presentation; June / 14 / 2002; City Hirosaki hotel, Aomori, JAPAN.

c. Book Chapters

Britton K, Dong L, Mohan R. Lung Cancer: Image-guidance to Account for Inter- and Intrafractional Variations: From a clinical and physics perspective. Informa Health Care USA, Inc, New York, NY; pp. 55-72, 2007.

Britton K, Takai Y, Chang JY, Britton R. Radiation Oncology. "Radioterapia Guiada por imagenes: Consideraciones generales, aplicacion clinica presente y futura.". Grupo GURVE – Duke University publishers, Durhan, NC, USA, 2008.

d. Books

N/A

e. Letters to the Editor

N/A

f. Manuals, Teaching Aids, Other Publications

1. Stronsium ⁸⁹Sr Isotope Clinical Application Manual: "Manual de procedimientos para la administración de ⁸⁹Sr". Centro Oncológico Punta Pacífica; Dic./2008, Panamá City, PANAMA.

g. Other

EDITORIAL AND REVIEW ACTIVITIES

Editor

- N/A

Journal Reviewer

- *Revista Médico científica, Universidad de Panamá* – 2011 to present.
- *International Journal of Radiation Oncology Biology and Physics* – 2006 to present.
- *Tohoku Journal of Experimental Medicine* – 2004 to present.

LANGUAGES

- Fluent **Spanish**
- Fluent **English**
- Fluent **Japanese**

PROFESSIONAL MEMEBERSHIPS / ACTIVITIES

American Association of Cancer Research (AACR). – 2006 to present.

American Association of Physics in Medicine (AAPM). – 2006 to present.

Asociacion LATinoAmericana de terapia Radiante (ALATRO). – 2005 to present

American cancer society (ACS). – 2005- present

American Society for Therapeutic Radiology and Oncology (ASTRO). – 2003 to present.

American Society of Clinical Oncology (ASCO). – 2003 to present.

Ibero-LatinoAmerican Radiation Oncologist Circle (CRILA). – 1995 to 2005.

Japanese Society for Therapeutic Radiology and Oncology (JASTRO). – 2004 to present.

Costa Rica's college of medicine and surgery. 1997.

National Medical Association (AMS), Panama. 1997.

ACADEMICAL MEETINGS AND CONGRESSES

International

9th Best of ASCO (American Society of Clinical Oncology) meeting.

Jul./2015, Panama City, PANAMA.

I Meeting of the Ibero Latin-American Society for Radiosurgery.

May/2015, Panama City, Panama.

International Congress on Multidisciplinary Management in Cancer. National Cancerologic Institute - ESE.

Sept./2014, Bogotá, COLOMBIA.

8th Best of ASCO (American Society of Clinical Oncology) meeting.

Jul./2014, Panama City, PANAMA.

II Symposium of central nervous system tumors. Neurosurgery and sense organ research program (PINEICOS).

Sept./2012, San José, COSTA RICA

6th Best of ASCO (American Society of Clinical Oncology) meeting.

Jul./2012, Panama City, PANAMA.

III meeting of the Latin American Society for Therapeutic Radiation Oncology (ALATRO).

Jun/2011, Panama City, PANAMA.

XIV Meeting of the Mexican Society of Radiation Oncology (SOMERA).

Nov/2010, Monterrey, NL, MEXICO.

52nd annual meeting of the American Society for Therapeutic Radiation Oncology (ASTRO),

Nov./2010, San Diego, CA, USA.

29th annual meeting of the European Society for Therapeutic Radiation and Oncology (ESTRO),

Sept./2010, Barcelona, SPAIN.

XII meeting of Pediatric Hemato-oncology society of Central America (AHOPCA),

Feb./2010, Montelimar, Managua, NICARAGUA.

II meeting of the Latin American Society for Therapeutic Radiation Oncology, ALATRO.

Nov/2009, Cancún, MEXICO.

51st annual meeting of (ASTRO) "American society for therapeutic radiology and oncology" meeting,

Nov./2009, Chicago, USA.

1st International Radiation Oncology meeting: Advances in Radiation Therapy and techniques.

Sept. 2-4, 2009, Mexico DF, MEXICO.

4th National Radiation Oncology meeting: Advances in Radiation Therapy and techniques.

Sept. 2-4, 2009, Mexico DF, MEXICO.

3rd Best of ASCO (American Society of Clinical Oncology) meeting.
Jul./2009, Panama City, PANAMA.

XIII Meeting of the Mexican Society of Radiation Oncology (SOMERA).
Dec/2008, Cancun, MEXICO.

50th annual meeting of (ASTRO) “American Society for Therapeutic Radiology and Oncology” meeting,
Sept./2008, Boston, USA.

2nd Best of ASCO (American Society of Clinical Oncology) meeting.
Sept./2008, Panama City, PANAMA.

33rd Gilbet Fletcher Society Meeting / MD Anderson RO.
Feb/2008, Houston, TX, USA.

12th World Conference on lung Cancer; COEX convention center.
Sept. 2-6, 2007, Seoul, KOREA.

1st meeting of the Latin American Society for Therapeutic Radiation Oncology, ALATRO.
Mar/2005, Lima, PERÚ.

109TH North Japan clinical oncology meeting.
Nov/2003, Miyagi, JAPAN.

3rd JAPAN-USA Cancer Treatment Symposium (JUCTS): “New horizons of targeted treatment in
radiation Oncology”; Oct/2-4/2003, Kyoto, JAPAN.

Lung Cancer Chemotherapy Symposium. Teleconference (France - Tokyo); Keio Plaza
Jul/2003, Tokyo, JAPAN.

55th Northern Japan nuclear medicine meeting.
May / 30 / 2002; Sendai International Hotel, Sendai, Miyagi, JAPAN.

54th Northern Japan nuclear medicine meeting.
February / 28 / 2002; Sendai International Hotel, Sendai, Miyagi, JAPAN.

106th North Japan clinical oncology society seminar.
June / 14-15 / 2002; City Hirosaki hotel, Aomori, JAPAN.

38th North Japan radiation oncology seminar.

June / 13/ 2002; Hirosaki , Aomori, JAPAN.

44th annual meeting of (ASTRO) “American society for therapeutic radiology and oncology” meeting, 2002, New Orleans, USA.

“The 3rd Shinji Takahashi Memorial International symposium on conformal radiotherapy (3DCRT/IMRT)” ; Nov/2001, Nagoya, JAPAN.

CRILA (Ibero-LatinAmerican radiotherapist circle) annual meeting, Apr. / 1998, Pucón, CHILE.

National

Asociación Panameña de Patología: “Seminario de Casos”
Oct/2011, Panama City, PANAMA.

XXXVI Jornada científica del Centro Médico Paitilla: Gastroenterología y colorectal.
Jul./2011.

X meeting of the Panamanian Society of Oncology, SPO.
Mar/2010. Panamá City, PANAMA.

X Annual Seminar of Centro Hemato-Oncológico Paitilla “Multidisciplinary Management of Breast Cancer. Sept/2009, Panamá City, PANAMA

Symposium Merck Serono Oncología.
Mar/2009, Panamá City, PANAMA

PRESENTATIONS AT NATIONAL OR INTERNATIONAL CONFERENCES

a) Invited

1. International

Britton K. MD, PhD. Speaker. Multidisciplinary management of the most frequent malignancies
XXX International Scientific Meeting of the Latin-American Federation of Medical Student societies
(FELSOCEM). Sept./2015, Panama City, PANAMA.

Britton K. MD, PhD. Speaker. Adaptive Radiotherapy for Lung Cancer. III meeting of the Latin
American Society for Therapeutic Radiation Oncology, ALATRO. Jun./2011, Panama City, PANAMA.

Britton K. MD, PhD. Speaker. Brachytherapy for Cervical Cancer: Biological bases and Evolution. Low vs High vs Pulse Dose Rate II Interdisciplinary Management of Cervix Cancer course; ALATRO School (e-ALATRO). Jun./2011, Panama City, PANAMA.

Britton K. MD, PhD. Speaker. Education for the Progress in Harmony to face the New Advances Challenges of The New millennium. XIV meeting of the Mexican Society of Radiation oncology. Nov. 17, 2010, Monterrey, NL, MEXICO.

Britton K. MD, PhD. Speaker. Educational platform of the Latin American Society for Therapeutic Radiation Oncology, ALATRO. Symposium Strategic Challenges In Oncology: Teaching, Research, and Technological development. Nov. 4 and 5, 2010, Murcia, SPAIN.

Britton K. MD, PhD. Speaker. Patterns of Care Braquitherapy in Latin America. European Society for Therapeutic Radiation Oncology, ESTRO annual Meeting. Oct, 18, 2010, Barcelona, SPAIN.

Britton K. MD, PhD. Speaker. Global Health in Radiation Oncology: Development of successful Radiation Oncologist through Residency and Beyond. American Association of Residents in Radiation Oncology, ARRO, career seminar, Oct, 31, 2010, San Diego, CA, USA.

Britton K. MD, PhD. Speaker. Image-Guided Intensity Modulated Radiation therapy (IG-IMRT) for lung Cancer Treatment. International Master on Advanced technologies in Radiation Oncology, Oncology Institute of Madrid (IMO). Jul, 9, 2010, Madrid, SPAIN.

Britton K. MD, PhD. Speaker. How may we adapt to our technical realities in radiation therapy, particularly in pediatric brain tumors: How to improve the therapeutic ratio. At the XIII encuentro de la Asociación de Hemato-Oncología Pediátrica de Centroamérica y el Caribe; Feb. 18-21, 2010, Montelimar, NICARAGUA.

Britton K. MD, PhD. Speaker. International Meeting "For Cancer Control". "Radioterapia Guiada por Imágenes IGRT". At the 75th Commemorative Anniversary of Instituto Nacional de Cancerología; Oct. 19-23, 2009, Santa Fé de Bogotá, COLOMBIA.

Britton K. MD, PhD. Speaker. 4th National Meeting and 1st International meeting "Advances in Radiation Therapy: Indications and treatment techniques". "Lung Cancer IMRT: Current management with Intensity Modulated Radiation therapy IMRT – International experience. Hospital General de México; Sept., 2-5, México City, MEXICO.

Britton K. MD, PhD. Speaker. 4th National Meeting and 1st International meeting "Advances in

Radiation Therapy: Indications and treatment techniques”. “Prostate Cancer IMRT: Intensity Modulated Radiation Therapy for early stage disease – A dose escalation protocol in the settings of advanced Image-Guided radiotherapy – IGRT. Hospital General de México. Sept., 2-5, México City, MEXICO.

Britton K. MD, PhD. Speaker. “Radioterapia guiada por imágenes: de 2D a 3D a 4D en tumores en movimiento”. Centro Médico La Trinidad, Jan. 26, 2009, Caracas, VENEZUELA.

Britton K. MD, PhD. Speaker. “El Cáncer en Panamá: Aspectos generales”. International Medical Congress; Julio 17, 2008 David, Chiriquí, PANAMA.

Britton K. MD, PhD. Speaker. “Radioterapia guiada por imágenes: de 2D a 3D a 4D en tumores en movimiento”. Congreso Medico Internacional; Julio 17, 2008 David, Chiriquí, PANAMA.

Britton K. MD, PhD. Speaker. “Radioterapia estereotaxica SRT en cáncer de pulmón: estado actual y comparacion con cirugia”. 1st meeting of the Asociacion LatinoAmericana de Terapia Radiante y Oncologia, ALATRO; Lung cancer round table; Dec, 7/ 2007, Montevideo, URUGUAY.

Britton K. MD, PhD. Speaker. “Time Trends in Mobility and Size of Target Volumes in Locally Advanced Stage-III Non-Small Cell Lung Cancer Patients Using Serial 4-DCT” at the 19TH Annual Meeting of the Japanese Society for Therapeutic Radiology and Oncology (JASTRO); Nov/2006, Miyagi, JAPAN.

Britton K. MD, PhD. Speaker. “Quality Assurance in Radiotherapy and Intensity Modulated Radiation Therapy (IMRT)” at the meeting of the “Circulo de Radioterapeutas Ibero-LatinoAmericanos” (CRILA); March 30/Apr 2/ 2005, Lima, PERU.

Britton K. MD, PhD. Speaker. “Image-guided Intensity-Modulated Radiation therapy (IG-IMRT) for prostate cancer dose escalation” at the “Circulo de Radioterapeutas Ibero-LatinoAmericanos” (CRILA); March 30/Apr 2/ 2005, Lima, PERU.

2. National

Britton K. MD, “Prevención al cáncer de mama, próstata e infantil”, Seminar, “Coordinación Local de Docencia e Investigación en Salud: Policlínica DR Carlos Brin, Caja del Seguro Social (CSS) – Panamá, Oct./28/2014, Panama City, PANAMA.

Britton K. MD, “Abordaje Terapéutico Actual en Cáncer de Mama y próstata”, Seminar,

“Departamento Nacional de Docencia e Investigación en Salud: Hoy Celebremos la Vida Luchando Juntos”. Caja del Seguro Social (CSS) – Panamá, Oct./27/2014, Panama City, PANAMA.

Britton K. MD, “Actualización en el tratamiento del Cáncer” seminar. “Coordinación Regional Materno Infantil de Colón”. Caja del Seguro social – Colon”, Oct./08/2014, Colon, PANAMA.

Britton K. MD, “Prevención y Abordaje Terapéutico Actual en Cáncer de Mama y Próstata, Seminar. “Coordinación Provincial de Docencia e Investigación en Salud:, Caja del Seguro social – Chiriquí, Oct./03/2014, Chiriquí, PANAMA.

Britton K. MD, “Prevención al cáncer de mama y próstata”, Videoconference, National Mational Campaign for cáncer prevention. “Departamento Nacional de Docencia e Investigación en Salud: Caja del Seguro Social (CSS) – Panamá, Oct./02/2014, Panama City, PANAMA.

Britton K. MD, “Braquiterapia para diferentes Tipos de Cáncer”, VI Medical meeting of Manuel Amador Guerrero Hospital. “Complejo Hospitalario Dr. Manuel Amador Guerrero”. Sept./17/2014, Panama City, PANAMA.

Britton K. MD, “Avances en Radioterapia”, New realities “Congreso Día del estadístico. Hospital Nacional – Panamá, Sept./10/2014, Panama City, PANAMA.

Britton K. MD, “Cáncer Gástrico”, IV Congreso Multidisciplinario, Caja del Seguro social – Panamá, Jul./25/2014, Panama City, PANAMA.

Britton K. MD, “Cáncer de mama” Proffessor Luncheon talk, at Hospital Punta Pacifica auditorium, Sept./20/2012, Panama City, PANAMA.

Britton K. MD, “Prevención y manejo del cancer de mama y prostate/Modalidades diagnósticas del cancer de mama” at the Grand auditorium, Santo Thomas Hospital, Oct./11/2011, Panama City, PANAMA.

Britton K. MD, “Radioterapia adaptativa en el Cáncer de Pulmón” at the 3rd National nursing Oncology meeting. Jun./20/2011, Panama City, PANAMA.

Britton K. MD, “Advances in Breast Cancer: National statistics and reality.” Institutional seminar, Bugaba Regional Hospital, Oct. /6/2010, Chiriquí, PANAMA.

Britton K. MD, “Avances en el tratamiento del cáncer: enfoque multidisciplinario y tecnológico” at the IX meeting of Asociación de Estudiantes de la Univesidad Latina de Panamá (ASEMLAT)”; Sept./ 02/

2010, Playa Bonita, PANAMA.

Britton K. MD, “Cancer de Próstata: Prevención y tratamiento” at the Panama Canal Authority (ACP); Oct/14/2009, Panama City, PANAMA.

Britton K. MD, “Cancer de Pulmón: El enemigo silencioso” at the OPS/OMS World Day Anti-tabacco; Instituto Oncológico Nacional (ION); May/30/2009, Panama City, PANAMA.

Britton K. MD, “Cancer de próstata: nuevos avances en el tratamiento” at the Regional chapter of the National association against cáncer (ANCEC); Jul/1-2/2005, Bocas del Toro, PANAMA.

Britton K. MD, “IMRT for prostate cancer: A physician’s point of view with physical considerations” at the 2nd Tohoku–Panama Seminar (TOPS); Aug/9-13/2004, Panama City, PANAMA.

Britton K. MD, “Conformal radiation therapy for Prostate cancer” at the 1st Tohoku–Panama Seminar (TOPS); Oct/2002 Panama City, PANAMA.

Britton K. MD, “Image-guided Intensity Modulated Radiation Therapy for prostate dose escalation”. At the monthly session of the Panamanian Oncology Society (SPO), Oct/2002 Panama City, PANAMA.

CONTINUED MEDICAL EDUCATION

Training / courses

- 1- Breast Cancer Radiotherapy, theoretical/practical workshop. ALATRO School (e-ALATRO). Sept. /2014, Bogotá, COLOMBIA.
- 2- Brachytherapy (High-Dose Rate) Course. Fisica Medica Institute, La Floresta Hospital. Jan. /2013, Caracas, VENEZUELA.
- 3- Prostate Cancer Interdisciplinary Course. ALATRO School (e-ALATRO). Jul. /2011, San Pedro Sula, HONDURAS.
- 4- Cervix Cancer Interdisciplinary Management course. ALATRO School (e-ALATRO). Jun. /2011, Panama City, PANAMA.
- 5- Advanced Brachytherapy Using High Dose Rate (HDR) for Prostate, Breast, Gynecological and ocular malignancies. Oncologic Institute of Catalunya (ICO). Jul-Aug/2010, Barcelona, SPAIN.
- 6- III LLA-MISPHO seminar in Pediatric Oncology. Hematology and Oncology Society of Central America and the Caribbean (AHOPCA). Jan/18-21/2010, Managua, NICARAGUA.
- 7- Clinical Management of Critical Malignancies in Latin America (Breast, lung, colon, Head and Neck, prostate and gastric cancers). The International Atomic Energy Agency (IAEA) Subregional course. Nov. 9-13, 2009, Juan Dolio, DOMINICAN REPUBLIC.
- 8- Special Radiation Treatment Procedures. Jun-Aug/2007, MDACC, Houston, Texas, USA.

- 9- Brachytherapy for Prostate Cancer Using Seed Implants, May/2007, Houston, Texas, USA.
- 10- Brachytherapy for Breast Cancer (Mammosite). Texas Cancer Clinic. Dec/2006, San Antonio, Texas, USA.
- 11- Image-guided Radiation Therapy (IGRT), for Tumors in Motion. Texas Cancer Clinic (TCC). Mar/2006, San Antonio, Texas, USA.
- 12- Intensity Modulated Radiation Therapy (IMRT) Planning and Dosimetry Workshop. Memorial Sloan Kettering Cancer Center. Jun/17-19/2004, New York, USA.
- 13- Intensity Modulated Radiation Therapy (IMRT) Physics, "Physics in IMRT", Division of Radiation Therapy Physics, Chiba Cancer Center. Nov/2003, Chiba, Tokyo, JAPAN.
- 14- Radiation Protection and Isotope Management and Safety course; Radiological Protection Department, Tohoku University, School of Medicine. Jul/2002, Sendai, Miyagi, JAPAN.
- 15- Brachytherapy for cervical cancer Using High dose rate (HDR) Source, Practical course Tohoku University School of Medicine. Mar/2001, Sendai, Miyagi, JAPAN.

Other courses and workshops

"Induction for Credited Doctors" workshop. Hospital Punta Pacífica, Mar, 31, 2009.

Panama City, PANAMA

Presentation skills / Career Development workshop. MD Anderson Cancer Center; Jul-Aug, 2007.

Houston, Texas, USA

Intensive Japanese Language Course. Tohoku University, Apr-Sept, 2000.

Sendai, Miyagi, JAPAN

ORGANIZATION OF NATIONAL OR INTERNATIONAL CONFERENCES /SYMPOSIA

- **President:** II Congreso de Innovaciones en Tratamientos Integrados en Oncología meeting of Centro internacional de Radiocirugía y Radioterapia Oncológica CIRRO. Mar, 2014, Panama City, PANAMA.
- **President of Local organizing committee:** I Congreso de Innovaciones en Tratamientos Integrados en Oncología meeting of Centro internacional de Radiocirugía y Radioterapia Oncológica CIRRO. Mar, 2013, Panama City, PANAMA.
- **President:** III meeting of the Latin American Society for Therapeutic Radiation Oncology – ALATRO. Jun, 2011, Panama City, PANAMA.
- **Director and Local Organizer:** 1st Cervical Cancer Regional Interdisciplinary management Course (e-ALATRO). Jun, 2011, Panama City, PANAMA.
- **President of Local organizing committee:** the Joint meeting of the The Gilbert Fletcher Society and the Japan-US Conformal Therapy Symposium: Towards a standardized radiation medicine. May, 17-19, 2009, Panama city, PANAMA.
- **President of Local organizing committee:** III Tohoku Panama Seminar, TOPS.

Interdisciplinary management of most frequent malignancies. Instituto Oncológico Nacional ION, Jul, 2008, Panama City, PANAMA.

- **President of Local organizing committee:** II Tohoku Panama Seminar, TOPS. New Technologies in Oncology. Complejo Hospitalario Metropolitano de la CSS, Dr. AAM. Sept., 2004, Panama City, PANAMA.
- **President of Local organizing committee:** I Tohoku Panama Seminar ,TOPS. New Horizons in Oncology. Sociedad Panameña de Oncología (SPO). Dec., 2002, Panama City, PANAMA.

a) Activities in professional meeting

Scientific Committee: V Latin American Society for Therapeutic Radiation Oncology (ALATRO); Nov. 1-4, 2015, Rosario, ARGENTINA.

Session Chair European Society for Therapeutic Radiation Oncology (ESTRO); Endometrial Cancer: the emerging role of radiation Oncology. Sep 12, 2010, Barcelona, SPAIN.

Session Chair: Latin American Society for Therapeutic Radiation Oncology (ALATRO); Advances in gastro-intestinal malignancies. Dec. 6, 2007, Montevideo, URUGUAY.

Session Chair: Latin American Society for Therapeutic Radiation Oncology (ALATRO); Educational platform for the Latin American Society of Residents in Radiation Oncology. Dec. 7, 2007, Montevideo, URUGUAY.

Session Chair: Ibero-Latinoamerican Circle of Radiation Oncologist (CRILA); Quality Assurance in Radiotherapy and modern treatment techniques. April 1, 2005, Lima, PERU.

Other societies (Non-medical)

- **Founder President** of Tohoku University Medical School Foreign Student Association (TUMESFSA) <http://gonryo.med.tohoku.ac.jp/tumesfsa>; President (2003-5). Sendai, Miyagi, Japan; 2003- Present.
- **President** of Tohoku (Northern Japan) Latin American Society (SLT); President (2002-3) Sendai, JAPAN.

Other Involvement (Non-medical)

- US Soccer Federation. **Certified Referee**, Texas South; Referee - 8, 2006 – Present. Houston, Texas, USA.
- FIFA Soccer World Cup 2002 (Korea-Japan). **Doctor for FIFA Doping Control Committee** for three matches.

- Japan professional soccer league (J-1). Vegalta Sendai Medical **Staff Doctor**, 2001-2005; Sendai, JAPAN.
- Japan Broadcasting Corporation (NHK Tokyo). Intercultural / Educational TV documentary (4 programs). Nationwide available in book and DVD, 2004, Tokyo, JAPAN.

REFERENCES

U. Of Texas MD Anderson Cancer Center (UTMDACC)

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