Message from the Chair

Dear Friends and Colleagues,

The Department of Radiation Oncology concluded another successful academic year. We continue to strive toward achieving excellence in patient care, education, and research.

Our faculty have been great ambassadors for UC Irvine. Dr. Jeffrey Kuo was invited as a guest speaker at the national Zeiss Intrabeam Conference, and presented his work at the American College of Radiation Oncology and Stereotactic Radiosurgery/Stereotactic Body Radiation Therapy Scientific meetings. Dr. Matthew Al-Ghazi was involved in the Best of ASTRO in Iraq. Dr. Charles Limoli is the Chair of the Radiation Research Society 2016 Annual Meeting taking place in Hawaii.

This year, our department will be well-represented at the American Society for Radiation Oncology (ASTRO) meeting. Dr. Randy Wei, PGY-5, will be a faculty moderator for an educational session on “The Central Role of Radiation Oncologists in Palliative Radiotherapy and Care.” His abstract on “Palliative Care Education in Radiation Oncology Training Programs Across the United States: A Program Directors’ Survey” was the third-highest rated abstract in the Palliative Care section and was accepted for an oral presentation for the Palliative Care session at ASTRO as well as the Best of ASTRO in Fort Lauderdale, FL. Dr. Daniel Bourgeois, PGY-5, has two abstracts accepted for poster presentation on his work with Dr. Parima Daroui on surface guided radiation therapy to reduce radiation toxicity to the lung and heart.

Our residency program has expanded to include an additional resident. Dr. Rupen Garg, PGY-2, joined us on July 1. Our department also resumed the tradition of the Residency Biennial Meeting. Adjunct faculty from our training sites at Long Beach Veteran Affairs and Long Beach Memorial Hospital visited the medical center for this event, where Dr. Limoli presented his cutting-edge research on novel radioprotective mechanisms to delay long term sequela from radiation, and Dr. Kuo led a faculty development workshop. Our adjunct faculty have been crucial to the educational enrichment of our residents.

We hope you enjoy reading this newsletter and we welcome your comments. We thank our patients, colleagues, and alumni for supporting us in our long term goal of providing Orange County and Southern California with the most advanced radiation therapy technology and world class care.

Sincerely,

Nilam S. Ramsinghani, MD
Chair and Clinical Professor
Department of Radiation Oncology
Department News

Congratulations Dr. Sehgal!
The U.S. Patents and Trademark Office has approved a patent application for radioactive bone cement developed by Dr. Varun Sehgal and fellow university researchers. The patented compound, Spine-Rad™, infuses radioactive material with a clinical cement to deliver targeted radiation therapy to spine and other bone tumors while restoring bone strength.

The compound was developed by a multidisciplinary research team led by Dr. Joyce Keyak, UC Irvine professor of Radiology. Co-inventors include Dr. Tadashi Kaneko, a graduate of the UC Irvine Department of Biomedical Engineering, and UC Irvine Orthopedic Surgery Professor Emeritus Dr. Harry Skinner.

Kudos to Carlos Monterrosa!
Senior Therapist Carlos Monterrosa was one of the first speakers to present at the inaugural Surface Guided Radiation Therapy User Meeting this past May in Atlanta, GA. He discussed UC Irvine’s experience with the Align RT system in conjunction with Varian TrueBeam STx and Perfect Pitch couch for Frameless Stereotactic Radiosurgery procedures. Carlos also participated on a panel with physicians and physicists regarding SGRT from a therapist perspective.

Great job Vann Pith!
Senior Therapist Vann Pith was invited to give a lecture on ‘Radiation Therapy to the Left Breast Using Deep Inspiration Breath Hold’ at the upcoming 2016 Radiation Oncology Conference for Therapists & Dosimetrists in Buffalo, New York.

Upcoming Grand Rounds
Please mark your calendars for our Fall Grand Rounds on Thursday, October 27, featuring Dr. Bruce Tromberg, Director of the Beckman Laser Institute at UC Irvine.

He will be speaking on ‘Developing Optical Biomarkers in Cancer Imaging’ at UC Irvine Medical Center in Bldg. 3, Rm. 101, from 4:00-5:00 PM. We hope to see you there!

Congratulations Dr. Charles Limoli!
Dr. Charles Limoli, in collaboration with Dr. Francis Cucinotta at University of Nevada, Las Vegas, has been awarded a $1.4 million, 5-year NIH R01 grant entitled ‘Biophysical Description of Age and Dose Dependent Changes to Dendritic Morphology that Impact Cognition following Radiation Cancer Therapy’.

Congratulations Dr. Janet Baulch!
UC Irvine’s Provost, Vice Chancellor for Research, and Vice Chancellor for Health Affairs have awarded Dr. Janet Baulch $49,100 through the Research Seed Funding Program for her proposal on ‘Human Stem Cell Derived Microvesicle Cargo that Protect the Brain from Clinical Radiotherapy’.

Congratulations Dr. Charles Limoli!

Dr. Randy Wei awarded Merit Award for Palliative Care in Oncology Symposium in San Francisco

Dr. Randy Wei was selected for a Merit Award by ASCO/ASTRO/AHPPM organizers of the Palliative Care in Oncology Symposium. He will present results from his ASTRO membership survey on attitudes of palliative care and supportive care amongst radiation oncologists in the USA.

UC Irvine @ ASTRO
UC Irvine Radiation Oncology will be hosting a social at the ASTRO 2016 meeting in Boston on Monday, September 26 from 4:00-6:00 PM. Location TBD. Contact michelkl@uci.edu for more information.

Alumni Updates

Congratulations Dr. Suhong Yu, Medical Physics Resident class of 2015, for passing her oral board examination in May! This maintains our 100% ABR pass rate. Dr. Yu is currently a faculty member at the University of Rochester in New York.

We wish continued success to Dr. Dagnachew Workie, Medical Physics Resident class of 2007, who has recently taken up a position as Chief Physicist at Sinai Hospital in Baltimore, Maryland.

Welcome back Dr. Sang-Yeob Lee, Medical Physics Resident class of 2005, to Orange County. Dr. Lee has recently joined the Kaiser-Anaheim team after previously working at the Florida Proton Center and the Korean National Cancer Institute.

Thank you Dr. Jessica Bahari, class of 2013, for the adorable photos (below) of her son, Jason! Baby Jason recently turned one year old. His favorite activity is making his parents chase him around. He is a sensitive soul who runs at signs of anything unusual including unfamiliar babies and cake.
Grand Rounds

Thank you Dr. Zain Husain, Assistant Professor of Therapeutic Radiology at Yale School of Medicine, for visiting UC Irvine and speaking at our first Grand Rounds event of the year on July 7. Dr. Husain, a UC Irvine School of Medicine alumni (2007), spoke on ‘Optimization Management of Oropharyngeal Cancer’. Radiation oncology faculty and residents enjoyed dinner afterwards with Dr. Husain.

Scripps Proton Center Visit

On April 14, UC Irvine Radiation Oncology residents, faculty, and staff visited the Scripps Proton Cancer Center in San Diego. Dr. Huan Giap and Dr. Lei Dong kindly organized a lunch, tour of the facility, and informative lectures.

Department Open House a Huge Success

On January 28, the Department held an open house to showcase a newly renovated space with modern technology. The open house was organized in collaboration with hospital administration. It was attended by a wide spectrum of attendees, with representation from our affiliates at Long Beach Memorial Medical Center and Long Beach Veteran Affairs, as well as community physicians, staff of Orange County hospitals, and members of the public, including former patients. It was also great to see familiar faces of former residents Dr. Robert Kwon (2004) and Dr. Jennie Cho-Lim (2012). It is always important to remind ourselves that our entire enterprise is focused on the patients who trust us with their most valuable possession - their lives! Thank you to everyone who joined us for this successful event.
Residency Biennial Meeting

The residency program re-started the tradition of holding a joint meeting with all three training sites: UC Irvine Medical Center, Long Beach Memorial Medical Center, and Long Beach Veterans’ Affairs. UC Irvine hosted the first meeting of the year on April 13, 2016. Radiobiologist Dr. Charles Limoli was the guest speaker and shared his exciting research on heavy particle radiation and neurocognitive dysfunction. He also shared 3 new developments to reverse neurocognitive decline which include stem cell therapy, small molecule drug, and microvesicle therapy. Residency Program Director Dr. Jeffrey Kuo provided an update on the residency, accreditation, and future directions for the program. He also led a faculty development workshop. Chief Resident Dr. Randy Wei, PGY-5, provided an update on resident research, presentations, and publications. He updated the group on the ASTRO alumni meetup and future alumni activities.

Current Clinical Trials

Our department is currently participating in the following clinical trials:

<table>
<thead>
<tr>
<th>Protocol Number</th>
<th>Title</th>
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<tbody>
<tr>
<td>UCI-14-24</td>
<td>A Phase II Multicenter Randomized Trial Evaluating 3-year Disease Free Survival in Patients With Locally Advanced Rectal Cancer Treated With Chemoradiation Plus Induction or Consolidation Chemotherapy and Total Mesorectal Excision or Non-operative Management</td>
</tr>
<tr>
<td>RTOG-0920</td>
<td>A Phase III Study of Postoperative Radiation Therapy (IMRT) +/-Cetuximab for Locally-Advanced Resected Head and Neck Cancer</td>
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<tr>
<td>SWOG-N1048</td>
<td>A Phase II/III Trial of Neoadjuvant FOLFOX with Selective Use of Combined Modality Chemoradiation versus Preoperative Combined Modality Chemoradiation for Locally Advanced Rectal Cancer Patients Undergoing Low Anterior Resection with Total Mesorectal Excision</td>
</tr>
<tr>
<td>RTOG-0848</td>
<td>A Phase II-R and A Phase III Trial Evaluating Both Erlotinib (PH II-R) and Chemoradiation (PH III) as Adjuvant Treatment for Patients with Resected Head of Pancreas Adenocarcinoma</td>
</tr>
<tr>
<td>GOG-0263</td>
<td>Randomized Phase III Clinical Trial Of Adjuvant Radiation Versus Chemoradiation In Intermediate Risk, Stage I/IIA Cervical Cancer Treated With Initial Radical Hysterectomy And Pelvic Lymphadenectomy</td>
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<tr>
<td>GOG-0270</td>
<td>GROningen INternational Study on Sentinel nodes in Vulvar cancer</td>
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<tr>
<td>GOG-0274</td>
<td>A Phase III Trial of Adjuvant Chemotherapy as Primary Treatment for Locally Advanced Cervical Cancer Compared to Chemoradiation Alone: The Outback Trial (ANZGOG 0902/GOG-0274/RTOG 1174)</td>
</tr>
<tr>
<td>GOG-0724</td>
<td>Phase III Randomized Study Of Concurrent Chemotherapy And Pelvic Radiation Therapy With Or Without Adjuvant Chemotherapy In High-Risk Patients With Early-Stage Cervical Carcinoma Following Radical Hysterectomy</td>
</tr>
<tr>
<td>GOG-9929</td>
<td>A Phase I Trial of Sequential Ipilimumab after Chemoradiation for the Primary Treatment of Patients with Locally Advanced Cervical Cancer Stages IB2/IIA with Positive Para-Aortic Lymph Nodes Only and Stage IIB/IIB/IVA with Positive Lymph Nodes</td>
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ASTRO Visits the Middle East

Muthana Al-Ghazi, Ph.D., FCCPM, FAAPM
Clinical Professor
Director of Medical Physics

The Best-of-ASTRO-IRAQ (B-O-A-I) was held in Sulaimaniyya, Kurdistan region, Iraq (December 10-12, 2015). This was the first time an ASTRO related activity took place in the country and the Middle East at large. The conference drew attendees from various parts of the Iraq as well as Kingdom of Saudi Arabia (KSA), Jordan, Lebanon and the United Kingdom (UK). There were approximately 100 participants consisting of oncologists, physicists, therapists and engineers. Local organizations and vendors sponsored the event. During the three day meeting the B-O-A-I approved program was presented. Faculty were a mixture of local and visiting delegates. The conference chairman was Dr. Layth Mula-Hussain, director of the radiation oncology residency program at the Zhianawa Cancer Center (ZCC). An interesting and unique presentation was given by a distinguished radiation oncologist, Dr. Qahtan A. Radwan who spoke on the history of radiation oncology in the city of Mosul (1964-2013), chronicling his own career. The conference venue was Faruk Medical City, a modern health care facility. There were social activities that provided opportunities to interact informally, including a banquet attended by dignitaries from the Kurdistan regional government ministry of health and other officials.

One and a half day refresher courses preceded the conference. These consisted of site-specific clinical and physics lectures. In addition there were practical workshops; one on high dose rate brachytherapy (HDR) commissioning and quality assurance (QA) and linear accelerator (linac) calibration and QA. The HDR workshop was led by Dr. Shada Wadh-Ramahi, chief physicist at the King Faisal Specialist hospital & Research Center (KFSH&RC) in KSA. The Linac workshop was led by the author. We had the able collaboration of Dr. Wassim Jalbout, chief physicist, American University of Beirut (Lebanon). The workshops were held at the ZCC.

Post-conference, I spent five days working with the staff of the ZCC, the main sponsor of the conference. During this time I gave physics lectures to the radiation oncology residents and worked with ZCC staff on various aspects of their clinical and physics practice.

Our hosts were most gracious. They spared no effort to provide legendary Iraqi hospitality with a distinct Kurdish flavor. The city of Sulaimaniyya was an ideal venue with its scenic surroundings and mountainous terrain serving as background.

The program can be found on Facebook at facebook.com/2015bofastroiraq.
Research is funded by significant extramural support including a $9 million dollar multi-institutional research grant from NASA, focused on understanding space radiation effects in the brain, 4 additional individually funded projects by NASA ($1.6 million dollars), 2 recently funded 5 year NINDS grants ($5.5 million dollars total), a project from the Defense Threat Reduction Agency (DTRA, $1.71 million dollars) and a smaller grant and service agreement from the Department of Defense and Neuralstem, Inc., respectively. In addition, Dr. Acharya has received a KL2 award, an ACS seed grant and several smaller intramural and foundation grants. Dr. Baulch’s research program has focused on radiation epigenetics and microvesicle mediated paracrine signaling. Dr. Baulch has historically received significant NASA funding that currently includes 2 NASA projects and a recent award from the DTRA. Our group is dedicated to promoting translational neuroscience and radiation, cancer and stem cell biology at UC Irvine’s School of Medicine.

Dr. Limoli is also the President-elect of the Radiation Research Society (RRS) and the 2016 Program Chair for the annual RRS meeting to be held in Hawaii this October. For this meeting, Dr. Limoli has assembled a world-class program of over 150 national and international scientists, many from UC Irvine, that will gather to discuss and exchange their ideas across a multidisciplinary platform including physics, chemistry, biology and clinically oriented research that defines the radiation sciences.

Referenced works available on Page 8

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Basic & Translational Research

Charles Limoli, Ph.D.
Professor & Vice Chair of Research

Our team has established a world-class and internationally recognized research program focused on elucidating the mechanistic causes of radiation injury in the brain and on strategies to resolve the resultant normal tissue complications. In the past 2 years, we have published 20 papers, presented over 30 abstracts, and been invited to speak at over 20 international and national meetings, including seminars and grand rounds. A few of our noteworthy findings are detailed in three manuscripts published in Cancer Research, Science Advances and the Proceedings of the National Academy of Sciences, USA (PNAS). These articles demonstrate the significant impact of chemotherapy and charged particle irradiation on the brain and, for the first time, how radiation and chemotherapy-induced brain injury can be ameliorated using stem cells or secreted microvesicles.

Our Cancer Research (2015) paper shows how chronic chemotherapy leads to cognitive impairment that is associated with reduced dendritic complexity, spine density, and increased neuroinflammation. Importantly, cranial transplantation of human stem cells was shown to improve cognition on 4 separate behavioral tasks through trophic support mechanisms involving the attenuation of neuroinflammation and the preservation of host neuronal morphology. The Science Advances (2015) publication details the long-term and adverse consequences of space radiation exposure on the CNS. In this study, space relevant fluences of charged particles found in space were shown to elicit long-term cognitive deficits and disrupted neurotransmission. The latest study in PNAS (2016) advances our interventional stem cell therapeutic approach and demonstrates that microvesicles secreted from neural stem cells are as effective for the treatment of radiation-induced neurocognitive complications as the stem cells themselves without the associated risks associated with stem cell engraftment. Similar to stem cells, microvesicles were found to improve cognition, attenuate neuroinflammation, and preserve host neuronal morphology, representing a clinically tractable approach that minimizes immunorejection and the risk of teratoma formation. Collectively, these findings provide critical insight into how radiation and chemotherapy damage the brain, and how we are developing a variety of therapeutic interventions aimed at improving the quality of life for pediatric and adult cancer survivors alike.

Our research team is comprised of Assistant Professor Munjal Acharya, Assistant Professor Vipan Parihar, Senior Scientist Janet Baulch, Postdoctoral Scholar Deblina Dey, Medical Scientist Training Program student Sarah Smith, graduate student Nicole Chmielewski, and Research Associates Ning Ru, Barrett Allen, Amber Syage, and Liping Yu. This team is further supported by the research and organizational efforts of Lab Manager Erich Giedzinski, as well as by a cadre of hard working and very capable undergraduate student volunteers and administrative support staff.

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From L to R: Munjal Acharya, Ph.D., Vipan Kumar, Ph.D., Janet Baulch, Ph.D., Erich Giedzinski
Meet the Chief Residents

Having witnessed the devastating impact of cancer on his own father, Randy Wei, MD PhD, (PGY-5) has been passionate about improving the outcomes and quality of life of patients with cancer. Dr. Wei enjoys working with other disciplines in research and clinical projects. His recent collaborations with radiology and medical oncology identified osteopenia in regions of vertebral spine following radiation for gastroesophageal cancers and proposed avoidance of low-dose radiation to the vertebral spine. He has lead a national survey of practicing radiation oncologists on their attitudes on palliative care and a residency director survey on palliative care curriculum in radiation oncology residencies. He enjoys serving on the UC Irvine SOM admissions committee, American Society of Radiation Oncology communications committee, and the Medical Advisory Board of Make A Wish Orange County. Most importantly, he loves spending time with his wife and son.

Daniel J Bourgeois, III, MD MPH (PGY-5) recently transferred from the Radiation Oncology training program at Roswell Park Cancer Institute in Buffalo, NY to complete his chief year at UC Irvine, as he and Dr. Jenna Martin Bourgeois of UC Irvine’s Plastic Surgery department were married last year. His career in healthcare began as an ICU nurse at Charity Hospital in New Orleans followed by medical school at Tulane University and a PGY-1 internship in General Surgery at Harbor UCLA. He has written and participated in multiple prospective, randomized, clinical protocols in head and neck cancer and non-small cell lung cancer, and has published research on several clinical and radiation topics including, but not limited to, intraoperative techniques of brachytherapy, SBRT/SRS, immunologic therapy, and radiopharmaceutical therapy. He and his wife are avid New Orleans foodies and lovers of live music and sports, and they will both graduate from their UC Irvine residencies in June 2017.

Physics

Muthana Al-Ghazi, Ph.D.
Clinical Professor & Director of Medical Physics

The physics class is as vibrant as ever. We have Samir Laoui, our current physics resident, along with Lesley Lawrenson, Jonathan Moayyad, Randy Wei and Daniel Bourgeois. Randy and Daniel are actively preparing for their physics board taking place on July 14th, coinciding with Bastille Day this year! We expect a stellar performance (no pressure), setting an example for their co-residents. Samir will be presenting a poster on high dose rate brachytherapy at the upcoming American Association of Physicists in Medicine (AAPM) annual conference in Washington, DC in late July-early August and will spend a week at UCLA under an American Brachytherapy Society-Nucletron scholarship later this year. Daniel and Randy will be presenting at ASTRO.

It is always great to hear from and see our alumni. Dr. Robert Kwon (class of 2004) attended our Open House earlier this year. An anecdote involving Robert is worth recounting. Robert wanted to attend the Southern California Radiation Oncology Society (SCROS) conference in 2001. In order to pay for registration, we had to be imaginative in securing funds. I suggested he summarize the first 100 IMRT cases treated at UC Irvine. Those were the early days of IMRT when it was a novel treatment planning and delivery irradiation technique (we had the NOMOS system then). We were the only Department offering IMRT in the region at the time. Robert applied himself to the task and produced an abstract and a poster, and won the best poster award. The award was in the form of a registration waiver enabling him to attend the meeting! Securing funding for residents (and faculty) to attend scientific activities has always been a challenge. We continue our creative efforts to provide educational opportunities to our residents to showcase their research.

Dr. Jennie Cho-Lim (class of 2012) also attended the Open House. Jennie returned to Southern California after a stint in New York. I suspect the gravitational pull of our climate must have something to do with her decision. She is now on the staff at LBVA and involved in resident training, which is refreshing as she is a relatively recent graduate. Jennie’s co-resident, Melva, had also visited not too long ago. I also had the pleasure of speaking with Jennie and Melva’s other co-resident, Jessica, on the telephone recently. Jessica is enjoying the challenge of balancing professional responsibilities with the joy of motherhood.

We saw the re-inauguration of the bi-annual (formerly tri-annual) meeting at UC Irvine on April 13, 2016. After over a decade hiatus, I suggested reconvening this gathering, where affiliates’ faculty, staff and residents get together to exchange ideas on enriching the residency experience. We are grateful to Drs. Ramsinghani and Syed for agreeing to provide funding for this activity. Drs. Jeffrey Kuo, Linda Chan (LBMMC) and Stephen Lee (LBVA) spoke on their vision for the residency. Dr. Charles Limoli dazzled us with a presentation on radiation effects on the central nervous system. This meeting was well attended by all involved in resident training. The next bi-annual meeting will take place at LBMMC in late September – early October of this year. We look forward to a successful event.

In closing, I wish you all an enjoyable summer and look forward to seeing as many of you as possible at the second UC Irvine Alumni gathering at ASTRO in Boston. Until then, to quote America’s legendary author, humorist and radio host, Garrison Keillor, be well, do good work, and keep in touch!
Dr. Parima Daroui

Faculty Spotlight:

This summer will mark five years since Dr. Parima Daroui joined UC Irvine Radiation Oncology after completing her residency at Rutgers Medical School in New Jersey. Joining a promising academic practice with innovative technology and a potential for growth in an ideal location was a main deciding feature for the cross-country move to California.

Dr. Daroui’ s initial interest in science and technology began after she participated in a college course in computer programming at the age of 8 and surpassed the adults as the best student in class. Her interest in medicine, however, stemmed from her experience as being a primary caretaker for her mother who was paralyzed as a result of a car accident when she was young. A career in medicine with an emphasis on technology was a goal she aspired to accomplish.

Dr. Daroui came to the Unites States from Iran at the age of 7 and grew up in Northwestern Ohio where she lived until the 8th grade. Her family moved back to Iran where she attended high school and completed a bachelor’s degree in Applied Chemistry followed by a Master’s in Organic Chemistry. Her interests in the implementation of technology in basic science led her to choose a Master’s thesis project in computational chemistry examining the ‘Conformational analysis of peptides by quantum mechanical methods’. She relocated back to the United States and began the doctoral program in Biological Sciences at Rutgers University. She joined the laboratory of Dr. Leroy Liu, a prominent investigator of Topoisomerase Inhibitors and Cancer Pharmacology at Rutgers. Her thesis project focused on the ‘Role of oxidative stress and Topoisomerase-induced DNA damage’. During her first year as a PhD student, she was accepted into the joint MD/PhD program at Rutgers and completed her Doctorate in Molecular Pharmacology in 2004 followed by a Doctorate in Medicine in 2006. Her background in cancer research and interests in Clinical Oncology and Technology led her to choose Radiation Oncology. Dr. Daroui began her residency in radiation oncology at Rutgers–Cancer Institute of New Jersey at Robert Wood Johnson Medical School, under renowned breast cancer Radiation Oncologist Dr. Bruce Haffty, graduating in 2011. Now at UC Irvine, her main clinical interests include treatment of breast cancer and head and neck malignancies.

In addition to clinical practice, Dr. Daroui continues to develop her research interests as the UC Irvine lead researcher of the locoregional treatment group of the Athena Project, a State-wide University of California breast cancer research collaboration, in addition to participating as the principal investigator in national protocols for breast cancer and head and neck cancer. She also has an active interest in mentoring and teaching medical students and residents and has ongoing projects regarding patterns of care and patient-centered outcomes.

In her free time, Dr. Daroui enjoys spending time with her husband Reza and her 7-year-old boy/girl twins Shaya and Elyya, and visits Disneyland with them often! Her family appreciates the abundance of culture in Orange County where there is much to do and learn. She also loves traveling and learning new languages, and in addition to her native Farsi and English, has studied French and Italian which has come in handy for a few patient encounters over the years.

Alfredo Banda

Staff Spotlight:

Please give a warm welcome to our newest staff member!

Jill Su joined Radiation Oncology on June 2, 2016 as our new Senior Financial Analyst. Jill will be responsible for financial and administrative management of department funding which includes clinical revenue, and major federal and private contracts and grants that support various research, education, and instructional programs. Jill graduated from the University of Illinois with a BA in Business Administration in 1995 and earned an MBA from Montclair State University in 1998. She previously worked as a Compensation Analyst and Financial Analyst with Hewlett-Packard Financial Services.

Alfredo Banda

Welcome Alfredo Banda

After a hiatus since 2012, the Dosimetry Training Program was resurrected as of July 1, 2016. Alfredo has joined our Department as the newest student in the one-year training program. He earned a Bachelors’ Degree in Radiologic Technology from California State University, Dominguez Hills in 2010, and also earned a certificate in Radiologic Technology from UCLA in 2010. Alfredo was previously working as a Radiation Therapist at Torrance Memorial Medical Center for over 3 years before joining UC Irvine this summer.
Faculty notable works

PUBLICATIONS


PRESENTATIONS

Roa, D. IAEA, MD Anderson. Lectures in Medical Physics, Invited Faculty. May 2016, Houston, TX.

Roa, D. IAEA, Argonne National Laboratory. Lectures in Medical Physics, Invited Faculty. April 2016, Argonne, IL.


Al-Ghazi, M. Member, Scientific Committee & Faculty, Best of ASTRO Iraq, December 10 -12, 2015. Sulaimaniyya, Iraq.


Al-Ghazi, M. Visiting Professor, Radiotherapy Department, College of Medicine, University of Baghdad

Resident notable works

PUBLICATIONS


Dharmarajan K, Wei R, Vapiwala N, Primary palliative care education in specialty oncology training programs: There is more work to be done. JAMA Oncology, May 2016.


PRESENTATIONS


