

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Dr. Umesh Murgendra. Mahantshetty		POSITION TITLE Associate Professor and Scientific Officer 'E' Tata Memorial Hospital, Dr Ernest Borges Street, Mumbai – 400012, India	
eRA COMMONS USER NAME (credential, e.g., agency login)			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Jawaharlal Nehru Medical College, Belgaum, Karnataka	M.B.B.S.	Dec. 1994	Medicine
Tata Memorial Hospital, Mumbai, India	D.M.R.T	Feb. 1998	Radiotherapy
Tata Memorial Hospital, Mumbai, India	M.D	Feb. 1999	Radiotherapy
Tata Memorial Hospital, Mumbai, India	DNBR	May 1999	Radiotherapy

A. Personal Statement

Briefly describe why your experience and qualifications make you particularly well-suited for your role (e.g., PD/PI, mentor, participating faculty) in the project that is the subject of the application.

B. Positions and Honors

Designation	Institution	Area	No. of years	
Associate Professor	Tata Memorial Hospital	Radiation Oncology	Jan 2010 onwards	
Assistant Professor	Tata Memorial Hospital	Radiation Oncology	May 2004	Dec. 2009
Research Fellow "IAEA"	Tata Memorial Hospital	Radiation Oncology	Sept. 2003	May 2004
Senior Registrar	Tata Memorial Hospital	Radiation Oncology	Mar.1999	Aug. 2003
Junior Registrar	Tata Memorial Hospital	Radiation Oncology	Sept. 1997	Feb.1999

OTHER RELEVANT INFORMATION:

Invited Reviewer for Radiotherapy Oncology
Reviewer, Journal of Cancer Research & Therapeutics
TMH Data Monitoring Sub Committee Member
Post - Doctoral Committee Member
Co-ordinator for "Telemedicine Project with Erasmus Medical Centre Rotterdam, NL"
Radiation Oncology Information System (ROIS) Software Development, Implementation and Coordinator
NUCLETRON – AROI OVERSEAS TRAVEL GRANT FELLOWSHIP: For 2008
Member of Association of Gynae-Oncologists of India (AGOI)
Member of American Brachytherapy Society
Member of European Society for GYN Oncology (ESGO)
Member of 3D GYN GEC-ESTRO Network
ICMR-TF RCMG Cervix Subcommittee Member

C. Selected Peer-reviewed Publications

	Author list in the exact order published. Please underline your name wherever it appears	Title of the Article/Chapter	Book/Publisher/Journal/ Volume/Pages/Year	No of Citations
1	Sharma, V., <u>Mahantshetty, U.</u> , Dinshaw, K.A., Deshpande, R., Sharma, S	Palliation of advanced/recurrent esophageal carcinoma with high-dose-rate brachytherapy	Int J of Radiat Oncol Biol Physics 52(2): 310-315; 2002.	39
2	Cozzi L., Dinshaw K.A., Shrivastava S.K., <u>Mahantshetty U.</u> , Engineer R., Deshpande D.D., Jamema S.V., Vanetti E., Clivio A., Nicolini G., Fogliata A.	A treatment planning study comparing volumetric arc modulation with RapidArc and fixed field IMRT for cervix uteri radiotherapy	Radiother Oncol. 89, 180-191; 2008.	28
3	Thyavihally, Y.B., <u>Mahantshetty U.</u> , Chamarajanagar, R.S, Raibhattanavar, S.G, Tongaonkar, H	Management of renal cell carcinoma with solitary metastasis	World Journal of Surgical Oncology vol. 3, Article 48, 2005.	10
4	Bhalavat R.L, Fakh, A.R, Mistry, R.C,	Radical radiation Vs surgery plus post-	European Journal of	04

Program Director/Principal Investigator (Last, First, Middle):

	<u>Mahantshetty, U</u>	operative radiation in advanced (resectable) supraglottic larynx and pyriform sinus cancers: A prospective randomized study	Surgical Oncology 29(9), 750-756. 2003.	
5	Kinhikar R.A., Deshpande S.S., <u>Mahantshetty U.</u> , Sarin R., Shrivastava S.K., Deshpande D.D.	HDR brachytherapy combined with 3-D conformal vs. IMRT in left-sided breast cancer patients including internal mammary chain: comparative analysis of dosimetric and technical parameters.	Journal of applied Clinical Medical Physics / American College of Medical Physics. Vol 6. Issue 3; 1-12; 2005.	04
6	Kinhikar R.A., Sharma P.K., Tambe C.M., <u>Mahantshetty U.M.</u> , Sarin R., Deshpande D.D., Shrivastava S.K.	Clinical application of a One-Dose MOSFET for skin dose measurements during internal mammary chain irradiation with high dose rate brachytherapy in carcinoma of the breast	Physics in Medicine and Biology Vol. 51, No. 14, 2006.	03
7	Bhalavat, R.L., Pathak, K.A., <u>Mahantshetty, U.</u> , Jamema, S.V.	Brachytherapy boost: A novel approach for epiglottic carcinoma	Brachytherapy 6 (3) 212 – 217 2007	02
8	Swamidas V. Jamema, Shery Saju, <u>Umesh Mahantshetty, U.</u> , Siddanna Palled, D. D. Deshpande, S. K. Shrivastava.	Dosimetric comparison of inverse optimization with geometric optimization in combination with graphical optimization for HDR prostate implants	Journal of Medical Physics, Vol. 31, No. 2, 89-94, 2006.	01
9	Thyavihally Y.B., Tongaonkar H.B., Srivastava S.K., <u>Mahantshetty U.</u> , Kumar P., Raibhattanavar S.G.	Clinical outcome of 36 male patients with primary urethral carcinoma: A single center experience	International Journal of Urology 13 (6) 716 – 720; 2006.	01
10	Jamema, S.V., Saju, S., <u>Mahantshetty, U.</u> , Pallad, S., Deshpande, D.D., Shrivastava, S.K., Dinshaw, K.A.	Dosimetric evaluation of rectum and bladder using image-based CT planning and orthogonal radiographs with ICRU 38 recommendations in intracavitary brachytherapy	Journal of Medical Physics 33 (1) 3-8 2008	01

Others :

1. S.K.Shrivastava, K.Dinshaw, U.Mahantshetty, R.Engineer, N.Patil, D.Deshpande, H.Tongaonkar Comparing low-dose and High-dose-Rate Intracavitary Brachytherapy in Carcinoma Cervix: Results from a randomized controlled study *Int J of Radiat Oncol Biol Physics* 66(3): Supp: S42 (abstract 72). 2006.
2. Palled SR, Doddihal HM, Mahantshetty UM. Choledochal Cyst Carcinoma Treated with Stereotactic Radiotherapy Letter to the Editor *Clinical Oncology*, Volume 18, Issue 2, 153-154; March 2006
3. Nikhilesh G. Patil, Shery Saju, S.V. Jamema, Umesh Mahantshetty, Sudesh Deshpande, Siddanna Palled, Deepak D. Deshpande, Shyam K. Shrivastava and Ketayun A. Dinshaw Comparative Analysis of CT Based 3D Volumetric Dosimetry and Radiography Based 2D Dosimetry for High Dose Rate Intracavitary Applications. *Brachytherapy* Volume 5, Issue 2, April-June 2006, Page 99.
4. Shruti M. Velaskar, R. Martha, U. Mahantshetty, J.S.Badakare, S.K.Shrivastava. Use of Indigenous Vaginal dilator in Radiation induced vaginal stenosis. *The Indian Journal of Occupational Therapy* : Vol. XXXIX : No. 1 (April 2007 - July 2007)
5. Bhalavat RL, Mahantshetty UM, Tole S, Jamema SV. Treatment outcome with low-dose-rate interstitial brachytherapy in early-stage oral tongue cancers. *J Cancer Res Ther.* 2009; 5 (3); 192-7.
6. Swamidas VJ, Mahantshetty U, Vineeta G, Engineer R, Deshpande DD, Sarin R, Shrivastava SK. Treatment planning of Epithelial Ovarian Cancers using Helical Tomotherapy. *J Appl Clin Med Phys.* 2009: Oct.7; 10 (4) ;96 – 105.

TEXTBOOK CHAPTERS

Mahantshetty Umesh, Chada Pranav, Engineer Reena, Shrivastava Shyam Kishore, Dinshaw Ketayun A. Radiotherapy in Ovarian Cancers-Current Status. In: *Ovarian Cancer: Contemporary Management*. Chitrathara, Shalini Rajaram, Amita Maheshwari, Jaypee Brothers 2008-2009 (ISBN 978-81-8448-539-4) 256-262.

Mahantshetty Umesh, Jamema Swamidas, Shrivastava SK. Chapter 9: Applicator Selection, Insertion and Imaging of 3D Image-Based Intracavitary Brachytherapy: The Tata Memorial Hospital Mumbai Experience In : *Image Guided Gynecologic Radiation Therapy*. A Vishwanathan, C Kirisits, B Erickson and R Poetter, **Springer Publications**. 2008-2009 (In print)

Dinshaw KA, **Mahantshetty U**, Shrivastava SK, Tongaonkar HB. Oxford Desk Reference – Oncology A Chapter on “Cervical Cancer” T Ajithkumar, N Cook, H Hatcher, A Barrett, M Aapro, **Oxford Press 2010** (In print)

D. Research Support

S. No	IRB No.	Role in Brief	Project Title, IRB Number, Names of PI/Co PI/CI,	Date of Acceptance / Starting	Funding body / Association With National / Intl Body / TMH
			ONGOING PROJECTS		
1	114/2002	Active Co PI, Involved in recruitment and overall conduct of the trial	Concomitant chemoradiation in advance stage carcinoma cervix- A phase III Randomised trial. SK Shrivastava, HB Tongaonkar, S Gupta, R Kerkar, A Maheshwari, <u>Mahantshetty U.</u> Engineer R, KA Dinshaw Till Dec. 2009, 705 patients have been randomized. The trial accrual rate, follow-up, DSMSC monitoring and patient compliance are within acceptable standards. Accrual completion by Dec. 2010. Interim analysis currently ongoing	Jan. 2003	TMH
2	119/2003	Co PI with active	Concomitant chemoradiation versus neo-adjuvant chemotherapy and surgery in the management stage II carcinoma cervix- A phase III	Jan. 2003	DAE-CTC

Program Director/Principal Investigator (Last, First, Middle):

		participation esp. in the treatment of patients in the standard arm (CT+RT)	Randomised trial, S Gupta, HB Tongaonkar, SK Shrivastava, Maheshwari, S (Ghosh) Laskar, Mahantshetty U. , Engineer R, KA Dinshaw Till Dec. 2009, 198 patients have been randomized. The trial accrual rate is slow, DSMSC monitoring and patient compliance are within acceptable standards.		
3	158/2004	Active Co PI, Involved in Recruitment and overall conduct of the study	A phase II randomized Trial comparing Intensity Modulated radiation therapy with conventional Radiation therapy in Stage II B carcinoma cervix. SK Shrivastava, U Mahantshetty , D Deshpande, S (Ghosh) Laskar, Engineer R, Dinsahw KA, RA Kinikar, Jemima SV, S Gupta, Tongaonkar HB Till Dec. 2009, 120 patients have been randomized. The trial accrual rate has improved this year with 32 pts recruited this year. The follow-up, DSMSC monitoring and patient compliance are within acceptable standards. Now, planned to further increase the accrual rate.	June 2004	Varian Medical Systems
4	205/2004	Active Co PI, Involved in Recruitment and overall conduct of the trial	Para-aortic Lymph Node Staging and Evaluation of Treatment Outcome by ¹⁸ F-fluorodeoxyglucose Positron Emission Tomography (FDG-PET) in Advanced Cancer Cervix. KA Dinshaw, SK Shrivastava, A Samuel, U Mahantshetty , HB Tongaonkar, R Kerkar, A Maheshwari, S (Ghosh) Laskar, Engineer R. Till Dec. 2009, 103 patients have been recruited. The accrual has been completed. Currently, follow-up PET scans ongoing. The follow-up, DSMSC monitoring, investigations and patient compliance are within acceptable standards. Initial report submitted for MD Thesis (Dr Mahesh Upasani)	May 2004	TMH
5	248/2005	Co-PI Assisting in the accrual of patients	A Randomized Clinical Study to compare Radical Concomitant Chemoradiation against radical radio therapy as treatments of Carcinoma uterine Cervix Stages Ib-IIb in HIV Infected patients. SK Shrivastava, S Ghosh Laskar, J P Agarwal, Engineer R, Mahantshetty U. , A Alahari, S Gupta, R Kelkar, KA Dinshaw Accrual Closed. Final analysis awaited from IAEA	2005	IAEA Multicentric
6	253/2005 IAEA – 13041/R	PI, coordinating with IAEA for the patient accrual, treatment and overall conduct of the study	Optimizing treatment of carcinoma cervix cancer using radiotherapy and analysis of virally associated cellular resistance. Mahantshetty U. , Shrivastava SK, Engineer Reena, Deshpande DD, Jemima SV, Kedar Deodhar, RF Chinoy, Dinshaw KA, This is an IAEA-Multicentric 2x2 trial. Out of 596 till Dec 2009, 254 patients have been randomized from our centre with 100 pts recruited this year. The trial accrual rate, follow-up and patient compliance are within acceptable standards. Accrual will close at 600 pts. Initial report being presented at ASTRO 2010.	2005	IAEA/WCI
8	281/2006	Co-PI, will be involved in the conduct and co-ordinate	A study of the chemo-adjuvant potential of curcumin in human cervical carcinomas and the signaling pathways involved. Shrivastava SK, Dinshaw KA, Tongaonkar HB, S Chiplunkar, PM Parikh, S Gupta Mahantshetty U. , Engineer Reena, RA Kerkar, A Maheshwari, R Kelkar, D Bandyopadhyay, T Teni, GB Maru The study was started in June 2008. Till Dec. 2009, 76 patients have been recruited. The follow-up, DSMSC monitoring and patient compliance are within acceptable standards.	Approved in May 2006 Now again in Dec 2007	DBT
10	461/2007	PI	Quantitative Estimation and Evaluation of HPV 16/18 DNA in Pre-treatment, Post Treatment and Follow-up Evaluatyon in Carcinoma Cervix II-IIIb treated with Radical radiation or chemoradiation therapy: An Observational Study. U Mahantshetty , Sk Shrivastava, KA Dinshaw, R.S Kelkar, R Engineer, HB Tongaonkar, S Chiplunkar, A Maheshwari, R Kerkar, S Patil, T Teni This study was considered for Intramural funding and has been granted 1st year funding. HEC clearance in March 2009. The study funds transferred to ACTREC under Dr T Teni. Will start accrual now.	July 2009	Intramural (to be started)
11	598/2008	PI Waiver of RT Charges at ACTREC: pending till Dec. 2009	Whole abdominal Radiation Therapy with image guided total peritoneal IMRT in Advanced Epithelial Ovarian Cancers- Phase II study Mahantshetty U. , Shrivastava SK, Tongaonkar HB, Engineer R, Maheswari A, Kerkar R, Goel V, Gupta S, Menon H, Prabhash K, Jamema SV, Devi R, Purandare N, Deshpande DD.	2008	Ongoing
12	601/2008	As PI Applied for Funding Awaiting response and then start	A International Study on MRI Guided Brachytherapy in locally Advanced Cervical Cancers (EMBRACE) Endorsed by GEC-ESTRO Mahantshetty U. , Shrivastava SK, Engineer R, Merchant NH, Tongaonkar HB, Kerkar R, Maheshwari A, Gupta S, Prabash K, Deodhar K, Deshpande DD, Dinshaw KA	Approved in Nov 2008	To be applied for funding and start
13	588/2008	Co-PI, assisting in the accrual of patients	Phase II study evaluating role of Tomotherapy based Intensity Based Modulated Radiotherapy and Brachytherapy in post surgery recurrent carcinoma cervix Engineer R, Shrivastava SK, Mahantshetty U. , Goel V, Tongaokar HB, Kerkar R, Maheswari A, Menon H, Devi R, Master Z, Patkar S, Thakur	Oct 2008	Ongoing

Program Director/Principal Investigator (Last, First, Middle):

			M.		
			NEW PROJECTS		
1	614	Co-PI , assisting in the sample collection, periodical review and data collection & analysis	Identification of specific genetic alterations in cervical cancer by genome wide LOH and copy number analysis using SNP arrays Rita Mulherkar SK Shrivastava, <u>Umesh Mahantshetty</u> , Kedar Deodhar, Reena Engineer	June 2009	DST approved
2	613	Co-PI , assisting in the sample collection, periodical review and data collection & analysis	Integration site of high risk HPV-a key event in genesis of cervical cancer Rita Mulherkar, SK Shrivastava, <u>Umesh Mahantshetty</u> , Kedar Deodhar, Reena Engineer	June 2009	Submitted to CSIR
3	635	Co-PI , assisting in the sample collection, periodical review and data collection & analysis	Validation of differentially expressed genes in cervical cancer from micro-array data Rita Mulherkar , SK Shrivastava, <u>Umesh Mahantshetty</u> , Kedar Deodhar, Reena Engineer	August 2009	IRG Approved
4	634	Co-PI , assisting in the sample collection, periodical review and data collection & analysis	High-throughput HPV typing of cervical cancer in different stages using bead-based multiplexing platform Rita Mulherkar, SK Shrivastava, <u>Umesh Mahantshetty</u> , Kedar Deodhar, Reena Engineer	August 2009	IRG Approved