# PUBLISHED BOOKS

1. **L. Marcu** (editor)
   *Contemporary Issues in Head and Neck Cancer Management*

2. S. Filip, **L. Marcu**
   *Mechanics with applications in medicine*

3. **Loredana Marcu**
   *Applications of radiation physics in dosimetry and radioprotection*

4. **L. Marcu**, E. Bezak, B. Allen
   *Biomedical physics in radiotherapy for cancer*

5. **L. Marcu**, E. Bezak (editors)
   *Recent advances and research updates in medical physics and radiobiology*

6. **Loredana Marcu**
   *The radiobiology of head and neck cancers*

7. **Loredana Marcu**
   *Physics – Teaching methodology*

8. S. Filip, **L. Marcu**
   *Mechanics*

# BOOKS TO BE PUBLISHED

1. E. Bezak, **L. Marcu**, A. Beddoe, M. Ebert, R. Price
   *Johns and Cunningham's: The physics of radiotherapy (5th ed)*
   Charles C Thomas Publisher, Illinois (2016)
2. E. Bezak, **L. Marcu**, A. Beddoe, M. Ebert, R. Price
   *Johns and Cunningham’s: The solutions to selected problems from The physics of radiotherapy*
   Charles C Thomas Publisher, Illinois (2016)

### PUBLISHED BOOK CHAPTERS / JOURNAL SPECIAL ISSUES

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| **1.** | **L. Marcu**, I. Toma-Dasu, A. Dasu  
*The 6 Rs of head and neck cancer radiotherapy*  
| **2.** | **L. Marcu**, E. Bezak, I. Toma-Dasu, A. Dasu (editors)  
*Predictive Models Of Tumour Response To Treatment Using Functional Imaging Techniques*  
(Special issue journal)  
Computational and Mathematical Methods in Medicine, ISSN: 1748-670X (2015) |
| **3.** | E. Bezak, **L. Marcu**, S. Penfold (editors)  
*Computational and Mathematical Modeling of Tumor Kinetics and Response to Radiation and Chemotherapy*  
(Special issue journal)  
Computational and Mathematical Methods in Medicine, ISSN: 1748-670X (2012) |
| **4.** | **L. Marcu**, E. Yeoh  
| **5.** | E. Bezak, **L. Marcu**  
*Recent Advances in Brachytherapy: Overview and Brachytherapy for Specific Treatment Sites*  

### PUBLISHED TEXTBOOKS / LAB GUIDES FOR INTERNAL USE

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| **1.** | **Loredana Marcu**  
*Radiobiology and radiation protection* – on-line course for postgraduate students  
University of Adelaide, Australia (2005) |
| **2.** | J. Patterson, **L. Marcu**  
*Aspects of basic physics* – course guide for Dental School  
University of Adelaide, Medical School (2003) |
| **3.** | S. Filip, E. Macocian, **L. Marcu**, C. Budasca et al,  
*General physics – laboratory guide for engineering students* (Romanian language)  
University of Oradea (2000) |
| **4.** | S. Filip, E. Macocian, **L. Marcu**, C. Budasca  
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University of Oradea (1997) |
5. S. Filip, L. Marcu
*Mechanics and acoustics – student textbook* (Romanian language)
University of Oradea (1997)

**BOOK REVIEWS PUBLISHED IN ISI JOURNALS**

1. L. Marcu
*Murat Beyzadeoglu, Gokhan Ozygit, and Ugur Selel: Radiation oncology: a MCQ and case study-based review*

**AUTHORED BOOKS’ REVIEWS PUBLISHED IN ISI JOURNALS**

1. Book review by: Tomas Kron

2. Book review by: Anna Ralston
*Loredana Marcu, Eva Bezak (eds): Recent advances and research updates, medical physics and radiobiology, Researchman Publishers Pvt. Ltd., Kerala, India. ISBN 81-87424-11-7*

**ARTICLES PUBLISHED IN PEER REVIEWED INTERNATIONAL JOURNALS**

1. L. Marcu
*The first Rs of radiotherapy - or standing on the shoulders of giants*

2. L. Marcu, D. Marcu
*In silico evaluation of radiobiological hypoxia and its effect on tumour control during radiotherapy*

3. E. Bezak, R. Takam, L. Marcu
*Peripheral photon and neutron doses from prostate cancer external beam irradiation*
Radiation Protection Dosimetry (2015)

4. L. Marcu, D. Marcu, S. Filip
*In silico repopulation model of various tumour cells during treatment breaks in head and neck cancer radiotherapy*
World Academy of Science, Engineering and Technology, International Science Index, Medicine and Health Sciences 9(3) (2015)

5. M. Jennings, L. Marcu, E. Bezak
*PET-specific parameters and radiotracers in theoretical tumour modelling*
Computational and Mathematical Methods in Medicine, Article ID 415923 (2015)

6. L. Marcu, W. Harriss-Phillips, S. Filip
Loredana Marcu

_Hypoxia in head and neck cancer in theory and practice: a PET-based imaging approach_  
Computational and Mathematical Methods in Medicine, Article ID 624642 (2014)

7. **L. Marcu**  
_Tumour repopulation and the role of abortive division in squamous cell carcinomas during chemotherapy_  

8. S. Sjostedt, E. Bezak, **L. Marcu**  
_Experimental Investigation of the Cell Survival in Dose Cold Spot_  

9. **L. Marcu**, A. Santos, E. Bezak  
_Risk of second primary cancer after breast cancer treatment_  
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10. **L. Marcu**  
_Improving therapeutic ratio in head and neck cancer with adjuvant and cisplatin-based treatments_  

11. B. Allen, E. Bezak, **L. Marcu**  
_Quo vadis radiotherapy? - Technological advances and the rising problems in cancer management_  

12. **L. Marcu**, J. Lawson  
_Technical and dosimetric aspects of I-125 seed reimplantation in suboptimal prostate implants_  
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13. **L. Marcu**, R. Gowda  
_Comparison of three different post implant dosimetry methods following permanent I-125 prostate seed implants_  
Medical Dosimetry 38:309-314 (2013)

14. T. Rutten, J. Lawson, **L. Marcu**  
_Treatment technique evolution and dosimetry trends over seven years of low dose rate prostate brachytherapy at an Australian institution_  

15. E. Bezak, **L. Marcu**, S. Penfold  
_Computational and Mathematical Modeling of Tumor Kinetics and Response to Radiation and Chemotherapy_ (editorial)  

16. J. Moorrees, J. Lawson, **L. Marcu**  
_Assessment of I-125 seed implant accuracy when using the live-planning technique for low dose rate prostate brachytherapy_  
Radiation Oncology 7(1):196 (2012)

17. L. Moghaddasi, E. Bezak, **L. Marcu**  
_Current challenges in Clinical Target Volume definition: tumour margins and microscopic extensions_  
18. S. Penfold, L. Marcu, J. Lawson, J. Asp
   Evaluation of physician eye lens doses during permanent seed implant brachytherapy for prostate cancer

19. L. Marcu, J. Lawson, T. Rutten, R. Gowda
   Quality indicators and technique for permanent I-125 prostate seed implants: 7 years post implant dosimetry evaluation

20. L. Marcu, W. Harriss-Phillips
   In Silico modelling of treatment-induced tumour cell kill: developments and advances

21. L. Marcu, E. Bezak
   The influence of stem cell cycle time on accelerated repopulation during radiotherapy in head and neck cancer
   Cell Proliferation 45(5):404-412 (2012)

22. L. Moghaddasi, E. Bezak, L. Marcu
   In Silico Modelling of Tumour Margin Diffusion and Infiltration

23. L. Marcu, E. Bezak
   Neoadjuvant cisplatin for head and neck cancer: simulation of a novel schedule for improved therapeutic ratio

24. L. Marcu, E. Bezak, S. Filip
   The role of PET imaging in overcoming radiobiological challenges in the treatment of advanced head and neck cancer
   Cancer Treatment Reviews 38:185-193 (2012)

25. R. Takam, E. Bezak, G. Liu, L. Marcu
   The use of enriched $^6$Li and $^7$Li LiF:Mg,Cu,P glass-rod thermoluminescent dosimeters for linear accelerator-based out-of-field radiation dose measurements

26. R. Takam, E. Bezak, L. Marcu, E. Yeoh
   Out-of-field neutron and leakage photon exposures and the associated risk of second cancers in high-energy photon radiotherapy: current status.

27. L. Marcu
   Altered fractionation in radiotherapy: from radiobiological rationale to therapeutic gain
   Cancer Treatment Reviews 36(8):606-614 (2010)

28. L. Marcu, E. Bezak
   Modelling of tumour repopulation after chemotherapy

29. R. Takam, E. Bezak, E. Yeoh, L. Marcu
   Assessment of normal tissue complications following prostate cancer irradiation: comparison of radiation treatment modalities using NTCP models
30. **L. Marcu**, E. Yeoh
   *The emerging role of predictive assays in the management of head and neck cancer*

31. **L. Marcu**, E. Bezak
   *Stochastic modelling of the role of cisplatin in altered fractionation schedules for head and neck cancer*

32. **L. Marcu**, E. Bezak
   *Radiobiological modelling of the interplay between accelerated repopulation and altered fractionation schedules in head and neck cancer*

33. **L. Marcu**, E. Yeoh
   *A review of risk factors and genetic alterations in head and neck carcinogenesis and implications for current and future approaches to treatment*

34. **L. Marcu**
   *The role of scientific journals in disseminating cancer research in the 21st century* (editorial)
   Austral-Asian Journal of Cancer 8(2) (2009)

35. **L. Marcu**
   *Cellular bystander effects and radiation hormesis*
   Annals of the University of Oradea - Biology XVI / 1, pp. 66-70 (2009)

36. **L. Marcu**
   *The role of amifostine in the treatment of head and neck cancer with cisplatin-radiotherapy*
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37. W. Tuckwell, E. Bezak, E. Yeoh, **L. Marcu**
   *Efficient Monte Carlo modelling of individual tumour cell propagation for hypoxic head and neck cancer*

38. R Takam, E. Bezak, E. Yeoh, **L. Marcu**
   *Assessment of normal tissue complications and second cancer risk following prostate cancer irradiation*

39. **L. Marcu**
   *Science education: the need for an interdisciplinary approach*

40. **L. Marcu**, I. Olver
   *Tirapazamine: from bench to clinical trials*

41. **L. Marcu**, E. Bezak, I Olver
   *Scheduling cisplatin and radiotherapy in the treatment of squamous cell carcinomas of the head and neck: a modelling approach*
42. L. Marcu, K Quach  
_The role of post-implant dosimetry in the quality assessment of prostate implants_  

43. L. Marcu, T van Doorn, E. Bezak  
_Determination of cell cycle phase-specific α parameters for squamous cell carcinomas of the head and neck_  

44. L. Marcu, E. Bezak, I. Olver, T van Doorn  
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47. L. Marcu, T van Doorn, I. Olver  
_Cisplatin and radiotherapy in the treatment of locally advanced head and neck cancer: a review of their cooperation_  

48. L. Marcu, T van Doorn, I. Olver, S. Zavgorodni  
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1. L. Marcu  
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3. L. Marcu
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4. L. Marcu
   The solar neutrino problem

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1. Loredana Marcu
   Deterministic modelling of kinetics and radiobiology of radiation-cisplatin interaction in the treatment of head and neck cancers

2. Loredana Marcu
   pH meter - design and applications,

3. Loredana Marcu
   Neutrino – physics, astrophysics and cosmology
   Honours Thesis, University of Timisoara, Romania (1994)

INTERNATIONAL CONFERENCE AND MEETINGS PRESENTATIONS

1. A. Santos, E. Bezak, L. Marcu
   Estimating the secondary primary cancer incidence after breast radiotherapy
   EPSM 2015, Wellington, New Zealand, 8-12 November (2015)

2. L. Marcu, D. Marcu
   In silico evaluation of radiobiological hypoxia and its effect on tumour control during radiotherapy

3. L. Marcu, D. Marcu, S. Filip
   Cancer stem cells in a hierarchical model of tumour regrowth in five head and neck carcinomas
   World Congress on Medical Physics & Biomedical Engineering, Toronto, Canada, 7-12 June (2015)

4. A. Santos, E. Bezak, L. Marcu
   Risk estimate of second primary cancers after breast radiotherapy
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5. L. Marcu
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6. L. Marcu
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7. **L. Marcu, D. Marcu**  
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8. **L. Marcu, D. Marcu, S. Filip**  
*In silico repopulation model of various tumour cells during treatment breaks in head and neck cancer radiotherapy*  
IEEE, International Conference on Radiation Medicine, Dubai, UAE, 11-12 March (2015)

9. **D. Marcu, L. Marcu**  
*In silico growth of a hypoxic head and neck tumour including angiogenic processes*  

10. **L. Marcu**  
*The influence of repopulation mechanisms on treatment gap timing in head and neck cancer radiotherapy*  
Workshop: Biological basis of radiotherapy – where do we stand? Stockholm, 4-5 Sept (2014)

11. **L. Marcu, D. Marcu**  
*In silico simulation of tumour radiobiology towards individualised treatment*  
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12. **L. Marcu**  
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13. **L. Marcu, D. Marcu, S. Filip, O. Straciuc**  
*The implementation of tumour-specific radiobiological parameters in a head & neck tumour growth model*  
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14. J. Moorrees, **L. Marcu, J. Lawson**  
*Dosimetric evaluation of implant accuracy in low dose rate prostate brachytherapy with live-planning technique*  
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15. L. Moghaddasi, E. Bezak, **L. Marcu**  
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16. **L. Marcu, J. Lawson**  
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21. L. Marcu
Functional Imaging for RT treatment planning: what diagnostic information can we gain: hypoxia, proliferation, metabolic activity?
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22. L. Marcu, J. Lawson, T. Rutten, R. Gowda
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23. L. Marcu, E. Bezak
Using Monte Carlo modelling in optimizing treatment outcome in advanced head and neck cancers treated with chemo-radiotherapy
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24. T. Rutten, J. Lawson, L. Marcu
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25. E. Bezak, R. Takam, S. Bensaleh, E. Yeoh, L. Marcu
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27. L. Marcu, S. Filip
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A multidisciplinary approach in predicting treatment outcome for advanced head and neck cancers
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29. **L. Marcu**, E. Bezak  
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30. **L. Marcu**, K. Quach, S. Filip  
*Gold fiducial markers in prostate cancer brachytherapy*  

31. W. Tuckwell, E. Bezak, E. Yeoh, **L. Marcu**  
*Modelling head and neck cancer oxygenation: individualising radiotherapy through simulation and animal studies*  
MOT meeting, Adelaide, SA (2008)

32. **L. Marcu**  
*Science education: the need for an interdisciplinary approach*  
International Conference of Faculty of Sciences, University of Oradea, Romania, Nov (2007)

33. **L. Marcu**, E. Bezak  
*Monte Carlo modelling of treatment schedules in the radiotherapy of head and neck cancer: overcoming clinical challenges*  
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34. E. Bezak, R. Takam, E. Yeoh, **L. Marcu**  
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35. W. Tuckwell, E Bezak, E. Yeoh, **L. Marcu**  
*Monte Carlo modelling for hypoxic head and neck squamous cell carcinoma and radiotherapy,*  
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36. R. Takam, E. Bezak, E. Yeoh, **L. Marcu**  
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37. W Tuckwell, **L. Marcu**, E Bezak  
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38. W Tuckwell, **L. Marcu**, E Bezak  
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39. **L. Marcu**, K Quach, E Yeoh, R Gowda, D Steele, S Chryssidis  
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40. E. Bezak, **L. Marcu**  
*Patient dose due to electronic portal imaging*  
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41. **L. Marcu**, E. Bezak  
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42. W. Tuckwell, T van Doorn, **L. Marcu**  
Temporal tumour modelling for individualised RT planning of head and neck cancer  
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43. **L. Marcu**, K. Quach  
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45. E. Bezak, **L. Marcu**  
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46. T van Doorn, **L. Marcu**, I. Olver, E. Bezak, E. Yeoh, R. Coad  
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47. **L. Marcu**, AB Lyons, T van Doorn, E. Bezak  
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Radiotherapy treatment of a virtual head and neck tumour by Monte Carlo simulation  
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*Modelling of tumour growth and radiotherapy*  
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