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[17–20], so that isoeffect calculations are essential. Apart from isoeffect calculations current treatment planning strategies for light ion therapy also require the attribution of radiobiological properties to both tumor and normal tissues.

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9. Are spared by prolongation (beyond

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about 2 weeks). 10. Are made worse by shorter overall times (except below 1 to 2 weeks, which is within the turnover time for mucosa). 16 Seminars in Radiation Oncology, Vo12, No 1 (January), 1992:pp 16-21 Fractionation: Radiobiological Perspectives 17 11.

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Abstract. A bio-anatomical quality assurance (QA) method employing tumor control probability (TCP) and normal tissue complication probability (NTCP) is described that can integrate radiobiological effects into intensity-

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modulated radiation therapy (IMRT). We evaluated the variations in the radiobiological effects caused by random errors (r-errors) and systematic errors (s-errors) by evaluating TCP and NTCP in two groups: patients with an intact prostate (Gintact) and those who have undergone

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Radiobiological Modelling in Radiation Oncology. Editors: Roger Dale and Bleddyn Jones. The British Institute of Radiology, London, UK, 2007.

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9780905749600. Description A book devoted to the subject of radiobiological modeling is a rare offering. This one provides the perspectives of preeminent researchers on the cur-

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Range of Fractionation Schedules. ...

Department of Radiation Oncology,
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Comprehensive Cancer Center,

Sacramento, California. ... In addition to

standard radiobiological effects such as
repair of sub-lethal damage and the impact

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Of note, the LQ model is the most used
model adopted for conventional
fractionation with only the basic
assumptions that lung tumor α/β ratio is 10

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Gy while α/β ratio for radiation pneumonitis (RP) and other late complications is 3 Gy, that the intrinsic radio-sensitivity of tumor cells is 0.35 In/Gy, that no tumor repopulation occurs within 2 weeks, and that the model is sound up to 23 Gy per fraction .

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Frontiers / Radiobiological Optimization in Lung ...

Modeling the Cellular Response of Lung Cancer to Radiation Therapy for a Broad Range of Fractionation Schedules Clin Cancer Res . 2017 Sep 15;23(18):5469-5479. doi: 10.1158/1078-0432.CCR-16-3277.

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*Modeling the Cellular Response of Lung
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The treatment of a patient with radiation therapy is planned to find the optimal way to treat a tumour while minimizing the dose received by the surrounding normal tissues. In order to better exploit the

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possibilities of this process, the availability of accurate and quantitative knowledge of the peculiar responses of the different tissues is of paramount importance.

*Modelling Radiotherapy Side Effects:
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mon Radiobiological Models Result in Similar Predictions of Time-Dose Relationships. Radiat. Res. 150,83-91 (1998). One of the fundamental tools in radiation biology is a formal-ism describing time-dose relationships. For example, there is a need for reliable predictions of radiotherapeutic isoeffect

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