# Overview on Experiment Proposals (3rd Meeting of Bio-PAC - May 8 / 9, 2008)

| Exp.-N° | Spokesperson | Co-Spokesperson | GSI Contact Person | Title |
|---|---|---|---|---|
| Bio07 | Jakob, B. | Taucher-Scholz, G. | Jakob, B. | Spatiotemporal organization of radiation-induced DNA damage responses in the context of LET and chromatin |
| Bio08 | Weyrather, W. K. | - | Weyrather, W. K. | Experiments with energy modulated particle beams and biological verification of carbon ion treatment planning |
| Bio10 | Löbrich, M. | Taucher-Scholz, G. | Taucher-Scholz, G. | DNA damage after high-LET exposure |
| Bio11 | Meijer, A. | Fournier, C. | Fournier, C. | Molecular pathways involved in cell death in human cells after C-ion exposure: Implication of TP53, ceramide and AIF |
| Bio12 | Müller-Klieser, W. | Sattler, U. | Taucher-Scholz, G. | Metabolic resistance to X-rays or particle radiation in human cancer cells |
| Bio14 | Fournier, C. | Ritter, S. | Fournier, C. | Cancer and non-cancer late effects following particle exposure |
| Bio15 | Rodriguez-Lafrasse, C. | Maalouf, M. | Fournier, C. | Radioresistance mechanisms of head and neck squamous carcinoma cell lines for future clinical application in hadrontherapy |
| Bio20 | Taucher-Scholz, G. | - | Taucher-Scholz, G. | Interplay of repair pathways during DNA lesion processing |
| Bio21 | Ritter, S. | Fournier, C. | Ritter, S. | Towards an optimized cancer therapy: Ion-irradiation-related studies using normal and tumour cells |
| Bio22 | Tanzarella, C. | Marchetto, F. | Taucher-Scholz, G. | Carbon ion RBE database assessment (CIRDA) |
| Bio23 | van Luijk, P. | Coppes, R. P. | Fournier, C. | Radiobiological effectiveness of Carbon ion irradiation for loss of lung function |
| Bio24 | Rose, F. | Kamlah, F., An, H. | Fournier, C. | Role of angionesesis, hypoxia and hyposia-inducible transcription factors for C-ion radiation in vitro and in vivo (A549 cells) |
| Bio25 | D'Agostino, E. | - | Kraft-Weyrather, W. | Heavy ion irradiation of intestinal cells |
| PT01 | Bert, C. | - | Bert, C. | Irradiation of moving targets |
| PT07 | Narici, L. | Sannita, W. G. | Schardt, D. | ALTEA - Mice / biophys |
| PT08 | Schardt, D. | - | Schardt, D. | Physical characterization of therapy beams: Nuclear fragmentation and Bragg curve measurements |
| PT13 | Wissmann, F. | Schardt, D. | Schardt, D. | Microdosimetric measurements in the secondary radiation field produced during 12C-radiation therapy |
| PT14 | Testa, E. | - | Schardt, D. | Detection of prompt gamma rays and fast neutrons to monitor the dose distribution in the patient during hadrontherapy |
| PT15 | Krauss, Achim | Schardt, D. | Schardt, D. | Absolute dosimetry of scanned carbon ion beams by use of a water calorimeter |
| PT16 | Enghardt, W. | - | Schardt, D. | Experiments for real time in-vivo dosimetry for ion therapy |