

SUN 30

MAGNETIC HYPERTHERMIA IS MORE EFFICIENT THAN EXOGENOUS HEATING TO KILL NEUROBLASTOMA CELLS

Beatriz Sanz<sup>1,2</sup>, M. Pilar Calatayud<sup>1</sup>, Teobaldo E. Torres<sup>1,4</sup>, Mónica L. Fanarraga<sup>5</sup>, M. Ricardo Ibarra<sup>1,3</sup>, Gerardo F. Goya<sup>1,3</sup>

<sup>1</sup>Instituto de Nanociencia de Aragón (INA), Universidad de Zaragoza, Zaragoza, Spain, <sup>2</sup>nB nanoScale Biomagnetics S.L., Zaragoza, Spain, <sup>3</sup>Departamento de Física de la Materia Condensada, Facultad de Ciencias, Universidad de Zaragoza, Zaragoza, Spain, <sup>4</sup>Laboratorio de Microscopias Avanzadas (LMA), Universidad de Zaragoza, Zaragoza, Spain, <sup>5</sup>Grupo de Nanomedicina-IDIVAL, Universidad de Cantabria, Santander, Spain

SUN 31

MAGNETIC HYPERTHERMIA AND MR IMAGING USING G4 PAMAM DENDRIMER COATED  $Fe_3O_4$  NANOPARTICLES

Marzieh Salimi<sup>1,3</sup>, Saeed Sarkar<sup>1</sup>, Reza Saber<sup>2</sup>, Alimohamad Alizadeh<sup>3</sup>, Hamid Delavari<sup>4</sup>

<sup>1</sup>Department of medical physics and Biomedical Engineering, Tehran university of medical sciences, Tehran, Iran, <sup>2</sup>Department of modern technologies, Tehran university of medical sciences, Tehran, Iran, <sup>3</sup>Cancer institute, Emam Khomeini hospital, Tehran university of medical sciences, Tehran, Iran, <sup>4</sup>Department of Materials Engineering, Tarbiat Modares University, Tehran, Iran

**CLINICAL HYPERTHERMIA SESSION I: CLINICAL TRIALS UPDATES**

2:00PM-3:30PM MEXICO/COZUMEL CHAIR: ZELJKO VUJASKOVIC & RUDI WESSALOWSKI

SUN 32

CHEMOTHERAPY AND HYPERTHERMIA FOR LOCALIZED SOFT TISSUE SARCOMA: UP-DATE WITH LONG-TERM FOLLOW-UP

Rolf Issels, Lars Lindner

Klinikum Grosshadern- University of Munich, Munich, Germany

SUN 33

RESULTS OF RANDOMIZED STUDIES ON HYPERTHERMIA IN ONCOLOGY

O.K. Kurpeshev<sup>1</sup>, J. van der Zee<sup>2</sup>, A.V. Orlova<sup>1</sup>

<sup>1</sup>A. Tsyb Medical Radiological Research Center, Obninsk, Russia, <sup>2</sup>Erasmus MC Cancer Institute, Rotterdam, The Netherlands

SUN 34

REGIONAL HYPERTHERMIA FOR TREATMENT OF PEDIATRIC OVARIAN GERM CELL TUMORS

Ruediger Wessalowski<sup>1</sup>, Gabriele Calaminus<sup>2</sup>, Eunike Velleuer<sup>1</sup>, Oliver Mils<sup>1</sup>, Stefan Schönberger<sup>2</sup>, Dominik T. Schneider<sup>3</sup>, Rotem Lanzman<sup>4</sup>, Eugen Ruckhäberle<sup>5</sup>, Ivo Leuschner<sup>6</sup>, Ulrich Göbel<sup>7</sup>

<sup>1</sup>Heinrich-Heine-University, Medical Faculty, Clinic for Pediatric Oncology, Hematology and Clinical Immunology, Duesseldorf, Germany, <sup>2</sup>University Children's Hospital, Department of Pediatric Hematology and Oncology, Bonn, Germany, <sup>3</sup>Pediatric Clinic, Municipal Hospital, Dortmund, Germany, <sup>4</sup>Heinrich-Heine-University, Medical Faculty, Institute of Diagnostic Radiology, Duesseldorf, Germany, <sup>5</sup>Heinrich-Heine-University, Medical Faculty, Department of Gynecology and Obstetrics, Duesseldorf, Germany, <sup>6</sup>University of Kiel, Pediatric Pathology, Kiel, Germany, <sup>7</sup>Heinrich-Heine-University, Medical Faculty, Pediatric Surveillance Unit (ESPED), Duesseldorf, Germany