



Journal of the Polish Society of Radiation Oncology, the Czech Society of Radiation Oncology, the Hungarian Society for Radiation Oncology, the Slovenian Society for Radiotherapy and Oncology, the Guild of Bulgarian Radiotherapists, the Polish Study Group of Head and Neck Cancer and the Greater Poland Cancer Centre, affiliated with the Spanish Society of Radiotherapy and Oncology, the Romanian Society of Radiotherapy and Medical Oncology, the Portuguese Society of Radiotherapy – Oncology, the Ibero Latin American Society of Therapeutic Radiation Oncology and the Grupo Oncológico Catalan Occitano

## EDITOR-IN-CHIEF

JULIAN MALICKI, Ph.D.

Greater Poland Cancer Centre, Poznań, Poland

## CO-EDITORS:

### CLINICAL

Isabel MONTEIRO-GRILLO, Hospital de Santa Maria, Faculdade de Medicina de Lisboa, Lisboa, Portugal  
Adela POITEVIN, Radiation Oncology Department, Médica Sur, Mexico DF, Mexico  
Jiří PETERA, Medical Faculty Hospital, Hradec Králové, Czech Republic  
Primož STROJAN, Institute of Oncology, Ljubljana, Slovenia  
Tatiana HADJIEVA, Radiotherapy Department, University Hospital, Sofia, Bulgaria

### BIOLOGY

Bogusław MACIEJEWSKI, Cancer Center and Institute of Oncology, Gliwice, Poland

### BRACHYTHERAPY

Ovidiu COZA, Institutul Oncologic, Cluj-Napoca, Romania  
Ferran GUEDEA, Institut Català d'Oncologia (ICO), Hospital Duran I Reynals, Barcelona, Spain  
Csaba POLGAR, National Institute of Oncology, Budapest, Hungary

### PHYSICS

Julian MALICKI, Greater Poland Cancer Centre, Poznań, Poland

### SURGICAL ONCOLOGY

Wojciech GOLUSINSKI, Greater Poland Cancer Centre, Poznań, Poland

## EDITORIAL OFFICE

Piotr MILECKI /medical consultant/  
Piotr MARTENKA /medical consultant/  
Michał MICHALAK /statistical editor/  
Sylvia CIESIŃSKA /administrative assistant/  
Bradley LONDRES /language editor/

## EDITOR ADDRESS

Greater Poland Cancer Centre  
Garbary 15 Str 61, 866 Poznań, Poland  
e-mail rpor@wco.pl

## EDITORIAL BOARD

BALTAS Dimos, Klinikum Offenbach GmbH, Offenbach, Germany  
BRAKENHOFF Ruud, VUmc-Cancer Center, Amsterdam, The Netherlands  
CASTEL Antoni, USP Instituto Universitario Dexeus, Barcelona, Spain  
CEREZO PADELLANO Laura, Hospital Universitario La Princesa, Madrid, Spain  
CHAUDAUDRA Jean, Institut Gustave Roussy, Villejuif, France  
CYGLER Joanna, Ottawa Hospital Regional Cancer Centre, Ottawa, Canada  
DIETZ Andreas, University of Leipzig, Leipzig, Germany  
DO CARMO LOPES Maria, Instituto Português de Oncologia, Coimbra, Portugal  
DUNSCOMBE Peter, University of Calgary, Calgary, Canada  
FELTL David, University Hospital Ostrava, Ostrava, Czech Republic  
FIJUTH Jacek, Medical University of Łódź, Łódź, Poland  
FODOR János, National Institute of Oncology, Budapest, Hungary  
GABROVSKI Roumen, Regional Oncological Hospital, Shoumen, Bulgaria  
GASINSKA Anna, Cancer Center and Institute of Oncology, Kraków, Poland  
GLIŃSKI Bogdan, Cancer Center and Institute of Oncology, Kraków, Poland  
GOMEZ-ITURRIAGA Alfonso, Cruces University Hospital, Bizkaia, Spain  
GRENNAR Reidar, Turku University Hospital, Turku, Finland  
GULYBÁN Ákos, European Organisation for Research and Treatment of Cancer, Brussels, Belgium  
HERVAS Asuncion, Hospital Ramón y Cajal, Madrid, Spain  
JASSEM Jacek, Uniwersyteckie Centrum Kliniczne, Gdańsk, Poland  
JERCZEK-FOSSA Barbara, European Institute of Oncology, Milano, Italy  
KACSÓ Gabriel, Oncology Institute „Prof. Dr. Ion Chiricuță”, Cluj-Napoca, Romania  
KAZMIERSKA Joanna, Greater Poland Cancer Centre, Poznań, Poland  
KOVÁCS György, University of Lübeck, Lübeck, Germany  
KRENGLI Marco, Ospedale Maggiore della Carità, Novara, Italy  
KRISHNAN Sunil, University of Texas MD Anderson Cancer Center, Houston, USA  
KUBES Jiri, Proton Therapy Center Prague, Prague, Czech Republic  
LARA Pedro C., Hospital Universitario de Gran Canaria, Gran Canaria, Spain  
LEEMANS René, VU University Medical Center, Amsterdam, The Netherlands  
LEER Jan Willem, University Medical Center, Nijmegen, The Netherlands  
LEŠNICAR Hotimir, Institute of Oncology, Ljubljana, Slovenia  
LOPES DE CASTRO Carla, Instituto Português de Oncologia, Porto, Portugal  
MACIA Miquel, Institut Català d'Oncologia (ICO), Barcelona, Spain  
MACKIEWICZ Andrzej, Greater Poland Cancer Centre, Poznań, Poland  
MAJOR Tibor, National Institute of Oncology, Budapest, Hungary  
MARINELLO Ginette, Hôpital Henri Mondor, Créteil, France

MARINOVA Lena, Oncology Hospital, Sofia, Bulgaria  
MARKOWSKA Janina, Poznań University of Medical Science, Poznań, Poland  
MICHALAK Michał, Poznań University of Medical Science, Poznań, Poland  
MILECKI Piotr, Greater Poland Cancer Centre, Poznań, Poland  
MONTERO Angel, University Hospital Ramón y Cajal, Madrid, Spain  
MURAWA Paweł, Greater Poland Cancer Centre, Poznań, Poland  
NAGY Viorica Magdalena, University of Medicine and Pharmacy “Iuliu Hatieganu”, Cluj-Napoca, Romania  
OLOFSSON Jan, Haukeland University Hospital, Bergen, Norway  
PÁLA Miloslav, Institute of Radiation Oncology, Prague, Czech Republic  
PARVANOV Veselina, National Oncological Centre Hospital, Sofia, Bulgaria  
PEREZ ROMASANTA Luis A., Hospital Clínico Universitario de Salamanca, Salamanca, Spain  
PODGORSKI Ervin B., Montreal General Hospital, Montréal, Canada  
POLI Maria Esmeralda, Hospital de Santa Maria, Lisboa, Portugal  
POORTMANS Philip, Instituut Verbeeten, Tilburg, The Netherlands  
PÖTTNER Richard, Allg. Krankenhaus der Stadt Wien, Vienna, Austria  
RAVO Vincenzo, National Cancer Institute Pascale, Napoli, Italy  
ROSZAK Andrzej, Greater Poland Cancer Centre, Poznań, Poland  
ROVIROSA Angeles, Hospital Clinic i Universitari, Barcelona, Spain  
RUBIO RODRIGUEZ Maria del Carmen, Hospital Universitario Madrid Sanchinarro, Madrid, Spain  
SANCHEZ-DOBLADO Francisco, Universidad de Sevilla, Sevilla, Spain  
SAS-KORCZYŃSKA Beata, Cancer Center and Institute of Oncology, Kraków, Poland  
SCALLIET Pierre, University Hospital St. Luc, Brussels, Belgium  
SKŁADOWSKI Krzysztof, Cancer Center and Institute of Oncology, Gliwice, Poland  
SKOŁYSZEWSKI Jan, Cancer Center and Institute of Oncology, Kraków, Poland  
SLAMPA Pavel, Masaryk Memorial Cancer Center, Brno, Czech Republic  
STRNAD Vratislav, University Hospital Erlangen, Erlangen, Germany  
TARNAWSKI Rafał, Oncology Institute, Gliwice, Poland  
TRIGO Lurdes, Instituto Português de Oncologia, Porto, Portugal  
USYCHKIN Serguei, Sofia Cancer Center, Moscow, Russia  
VELENIK Vaneja, Institute of Oncology, Ljubljana, Slovenia  
WACHOWIAK Jacek, Poznań University of Medical Science, Poznań, Poland  
WALIGÓRSKI Michał, Cancer Center and Institute of Oncology, Kraków, Poland  
ZWITTER Matjaž, Institute of Oncology, Ljubljana, Slovenia