ANTICANCER RESEARCH

International Journal of Cancer Research and Treatment

ISSN: 0250-7005

Volume 41, Number 1, January 2021

Contents

Reviews

Chemoradiotherapy in Cancer Treatment: Rationale and Clinical Applications. K.S. RALLIS, T.H.L. YAU, M. SIDERIS (<i>London</i> , <i>UK</i>)	1
The Prognostic Relevance of Computed Tomography-assessed Skeletal Muscle Index and Skeletal Muscle Radiation Attenuation in Patients With Gynecological Cancer. A. GADDUCCI, S. COSIO (<i>Pisa, Italy</i>)	9
Inguinal GIST: A Systematic Literature Review of Primary and Metastatic Cases. E. VIRGILIO, A. ANNICCHIARICO, L. PAGLIAI, A. MORINI, A. ROMBOLI, F. MONTALI, R. COSTI (<i>Parma; Fidenza; L'Aquila, Italy</i>)	21
Experimental Studies	
Molecular Targeting of H/MDM-2 Oncoprotein in Human Colon Cancer Cells and Stem-like Colonic Epithelial-derived Progenitor Cells. A. THADI, W.F. MORANO, M. KHALILI, B.D. BABCOCK, M.F. SHAIKH, D.S. FOSTER, Y. PIAZZA, E.M. GLEESON, E. GOLDSTEIN, L. STEELE, P.M. CAMPBELL, B. LIN, M.R. PINCUS, W.B. BOWNE (<i>Philadelphia</i> , <i>PA</i> ; <i>Brooklyn</i> , <i>NY</i> , <i>USA</i>)	27
High <i>SLC20A1</i> Expression Is Associated With Poor Prognoses in Claudin-low and Basal-like Breast Cancers. C. ONAGA, S. TAMORI, H. MOTOMURA, A. OZAKI, C. MATSUDA, I. MATSUOKA, T. FUJITA, Y. NOZAKI, Y. HARA, Y. KAWANO, Y. HARADA, T. SATO, Y. MANO, K. SATO, K. AKIMOTO (<i>Chiba, Japan</i>)	43
Exome of Radiation-induced Rat Mammary Carcinoma Shows Copy-number Losses and Mutations in Human-relevant Cancer Genes. H. MORIYAMA, K. DAINO, A. ISHIKAWA, T. IMAOKA, M. NISHIMURA, Y. NISHIMURA, M. TAKABATAKE, T. MORIOKA, K. INOUE, M. FUKUSHI, Y. SHIMADA, S. KAKINUMA (Chiba; Tokyo; Aomori, Japan; Washington, DC, USA)	55

Contents continued on the back cover

ANTICANCER RESEARCH

International Journal of Cancer Research and Treatment

HighWire Press STANFORD UNIVERSITY

ISSN (print): 0250-7005 ISSN (online): 1791-7530

Editorial Board

P. A. ABRAHAMSSON, Malmö, Sweden B. B. AGGARWAL, San Diego, CA, USA

T. AKIMOTO, Kashiwa, Chiba, Japan

P. Z. ANASTASIADIS, Jacksonville, FL, USA

A. ARGIRIS, San Antonio, TX, USA

I. P. ARMAND. Paris. France

V. I. AVRAMIS, Los Angeles, CA, USA

D.-T. BAU, Taichung, Taiwan, ROC

G. BAUER, Freiburg, Germany E. E. BAULIEU, Le Kremlin-Bicetre, France

E. J. BENZ, Jr., Boston, MA, USA

J.-Y. BLAY, Lyon, France

J. BERGH, Stockholm, Sweden

F. T. BOSMAN, Lausanne, Switzerland

M. BOUVET, La Jolla, CA, USA

J. BOYD, Miami, FL, USA

G. BROICH, Monza, Italy

Ø. S. BRULAND, Oslo, Norway

J. M. BUATTI, Iowa City, IA, USA

M. CARBONE, Honolulu, HI, USA

C. CARLBERG, Kuopio, Finland

A. F. CHAMBERS, London, ON, Canada

P. CHANDRA, Frankfurt am Main, Germany

L. CHENG, Indianapolis, IN, USA

J.-G. CHUNG, Taichung, Taiwan, ROC

R. CLARKE, Washington, DC, USA

A.P. CONLEY, Houston, TX, USA

E. DE CLERCQ, Leuven, Belgium

W. DEN OTTER, Amsterdam, The Netherlands

E. P. DIAMANDIS, Toronto, ON, Canada

G. TH. DIAMANDOPOULOS, Boston, MA, USA

L. EGEVAD. Stockholm. Sweden

D. W. FELSHER, Stanford, CA, USA

J. A. FERNANDEZ-POL, Chesterfield, MO, USA

H. FU, Atlanta, GA, USA

B. FUCHS, Zurich, Switzerland

D. FUCHS, Innsbruck, Austria

D. FUKUMURA, Boston, MA, USA

G. GABBIANI, Geneva, Switzerland

R. GANAPATHI, Charlotte, NC, USA

A. GIORDANO, Philadelphia, PA, USA

M. GNANT, Vienna, Austria

R. H. GOLDFARB, Guilford, CT, USA

J.S. GREENBERGER, Pittsburgh, PA, USA

A. HELLAND, Oslo, Norway

L. HELSON, Quakertown, PA, USA

R. HENRIKSSON, Umeå, Sweden

R. M. HOFFMAN, San Diego, CA, USA

P. HOHENBERGER, Mannheim, Germany

F. JANKU, Houston, TX, USA

S. C. JHANWAR, New York, NY, USA

J. V. JOHANNESSEN, Oslo, Norway

R. JONES, London, UK

B. KAINA, Mainz, Germany

P.-L. KELLOKUMPU-LEHTINEN, Tampere, Finland

D. G. KIEBACK, Schleswig, Germany

R. KLAPDOR, Hamburg, Germany

K.L. KNUTSON, Jacksonville, FL, USA

H. KOBAYASHI, Bethesda, MD, USA S. D. KOTTARIDIS, Athens, Greece

G. R. F. KRUEGER, Köln, Germany

Pat M. KUMAR, Manchester, UK Shant KUMAR, Manchester, UK

O. D. LAERUM, Bergen, Norway

F. J. LEJEUNE, Lausanne, Switzerland

S. LINDER, Linköping, Sweden

L. F. LIU, Piscataway, NJ, USA

D. M. LOPEZ, Miami, FL, USA

E. LUNDGREN, Umeå, Sweden

Y. MAEHARA, Fukuoka, Japan

J. MAHER, London, UK

J. MARESCAUX, Strasbourg, France

S. S. MARTIN, Baltimore, MD, USA

S. MITRA, Houston, TX, USA

S. MIYAMOTO, Fukuoka, Japan

S. MONCADA, Manchester, UK M. MUELLER, Villingen-Schwenningen,

F. M. MUGGIA, New York, NY, USA

M. NAMIKI, Kanazawa, Ishikawa, Japan K. NILSSON, Uppsala, Sweden

S. PATHAK, Houston, TX, USA

J.L. PERSSON, Malmö, Sweden

G. J. PILKINGTON, Portsmouth, UK

C. D. PLATSOUCAS, Norfolk, VA, USA

A. POLLIACK, Jerusalem, Israel

D. RADES, Lübeck, Germany

M. RIGAUD, Limoges, France

U. RINGBORG, Stockholm, Sweden

M. ROSELLI, Rome, Italy

S.T. ROSEN, Duarte, CA, USA

A. SCHAUER, Göttingen, Germany

M. SCHNEIDER, Wuppertal, Germany

J. SEHOULI, Berlin, Germany

A. SETH, Toronto, ON, Canada

G. V. SHERBET, Newcastle-upon-Tyne, UK

A. SLOMINSKI, Birmingham, AL, USA

G.-I. SOMA, Kagawa, Japan

G. S. STEIN, Burlington, VT, USA

T. STIGBRAND, Umeå, Sweden

T. M. THEOPHANIDES, Athens, Greece

P. M. UELAND, Bergen, Norway

H. VAN VLIERBERGHE, Ghent, Belgium

R. G. VILE, Rochester, MN, USA M. WELLER, Zurich, Switzerland

J. WESTERMARCK, Turku, Finland

B. WESTERMARK, Uppsala, Sweden

Y. YEN, Taipei, Taiwan, ROC

M.R.I. YOUNG, Charleston, SC, USA B. ZUMOFF, New York, NY, USA

G. J. DELINASIOS, Athens, Greece Managing Editor and

Executive Publisher

I. G. DELINASIOS. Athens. Greece Managing Editor (1981-2016)

Editorial Office: International Institute of Anticancer Research, 1st km Kapandritiou-Kalamou Rd., Kapandriti, P.O. Box 22, Attiki 19014, Greece. Tel / Fax: +30-22950-53389

U.S. Branch: Anticancer Research USA, Inc., 111 Bay Avenue, Highlands,

E-mails: Editorial Office: journals@iiar-anticancer.org

Managing Editor: editor@iiar-anticancer.org

ANTICANCER RESEARCH supports: (a) the establishment and the activities of the INTERNATIONAL INSTITUTE OF ANTICANCER RESEARCH (IIAR: Kapandriti, Attiki, Greece); and (b) the organization of the International Conferences of Anticancer Research. The IIAR is a member of UICC. For more information about ANTICANCER RESEARCH, IIAR and the Conferences, please visit the IIAR website: www.iiar-anticancer.org

Publication Data: ANTICANCER RESEARCH (AR) is published bimonthly from January 1981 to December 2008 and monthly from January 2009. Each annual volume comprises 12 issues. Annual Author and Subject Indices are included in the last issue of each volume, ANTICANCER RESEARCH Vol. 24 (2004) and onwards appears online with Stanford University HighWire Press from April 2009. All published articles are deposited in PubMed Central.

Copyright: On publication of a manuscript in AR, which is a copyrighted publication, the legal ownership of all published parts of the paper passes

from the Author(s) to the Journal. Annual Subscription Rates 2021 per volume: Institutional subscription US\$ 1,898.00 (online) or US\$ 2,277.00 (print & online). Personal subscription US\$ 897.00 (online) or US\$ 1,277.00 (print & online). Prices include rapid delivery and insurance. The complete previous volumes of Anticancer Research (Vol. 1-40, 1981-2020) are available at 50% discount

on the above rates. Subscription Orders: Orders can be placed at agencies, bookstores, or directly with the Publisher. (e-mail: subscriptions@iiar-anticancer.org) Advertising: All correspondence and rate requests should be addressed

to the Editorial Office Book Reviews: Recently published books and journals should be sent to the Editorial Office. Reviews will be published within 2-4 months.

Articles in ANTICANCER RESEARCH are regularly indexed in all bibliographic services, including Current Contents Life Sciences and Medical Sciences, Science Citation Index Expanded, Index Medicus, Biological Abstracts, PubMed, PubMed Central, Chemical Abstracts, BIOSIS, Previews, Essential Science Indicators, Excerpta Medica, University of Sheffield Biomedical Information Service, Current Clinical Cancer, AIDS Abstracts, Elsevier Bibliographic Database, EMBASE, Compendex, GEOBASE, EMBiology, Elsevier BIOBASE, FLUIDEX, World Textiles, Scopus, Progress in Palliative Care, Cambridge Scientific Abstracts, Cancergram (International Cancer Research Data Bank), MEDLINE, Reference Update - RIS Inc., PASCAL-CNRS, Inpharma-Reactions (Datastar, BRS), CABS, Immunology Abstracts, Telegen Abstracts, Genetics Abstracts, Nutrition Research Newsletter, Dairy Science Abstracts, Current Titles in Dentistry, Inpharma Weekly, BioBase, MedBase, CAB Abstracts/Global Health Databases, Investigational Drugs Database, VINITI Abstracts Journal, Leeds Medical Information, PubsHub.

Obtaining permission to reuse or reproduce our content: AR has partnered with Copyright Clearance Center (CCC) to make it easy to secure permissions to reuse its content. Please visit www.copyright.com and enter the title that you are requesting permission for in the 'Get Permission' search box. For assistance in placing a permission request, Copyright Clearance Center can be contacted directly at: Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923 USA. Phone: +1-978-750-8400. Fax: +1-978-646-8600. E-mail: info@copyright.com. The Editors and Publishers of ANTICANCER RESEARCH accept no responsibility for the opinions expressed by the contributors or for the content of advertisements appearing therein.

Sociedad Iberoamericana de Información Científica (SIIC) Data Bases.

Copyright© 2021, International Institute of Anticancer Research (Dr. George J. Delinasios), All rights reserved.

PRINTED BY ENTYPO, ATHENS, GREECE. PRINTED ON ACID-FREE PAPER

ANTICANCER RESEARCH

International Journal of Cancer Research and Treatment ISSN (print): 0250-7005, ISSN (online): 1791-7530

VOLUME 41 2021

Editorial Board

P. A. Abrahamsson Department of Urology, Skåne University Hospital, Lund University, Malmö, Sweden

B. B. Aggarwal Director, Inflammation Research Center, San Diego, CA, USA

T. Akimoto Division of Particle Therapy and Department of Radiation Oncology, National Cancer Center East, Kashiwa,

Chiba, Japan

P. Z. Anastasiadis Department of Cancer Biology, Mayo Cancer Center, Jacksonville, FL, USA

A. Argiris Division of Hematology/Oncology, UT Health Science Center at San Antonio, San Antonio, TX, USA

J. P. Armand Institut Gustave Roussy, Paris, France

V. I. Avramis Division of Hematology/Oncology, Childrens Hospital, Los Angeles, CA, USA

D.-T. Bau Terry Fox Cancer Research Lab, China Medical University Hospital, Taichung, Taiwan, ROC

G. Bauer Abteilung Virologie, Institut für Medizinische Mikrobiologie und Hygiene, Universität Freiburg, Germany

E. E. Baulieu INSERM U488 and College de France, Le Kremlin-Bicetre, France

E. J. Benz, Jr. Dana-Farber Cancer Institute, Boston, MA, USA

J.-Y. Blay Centre Léon Bérard, Lyon, France

J. Bergh Department of Clinical and Molecular Medicine, Radiumhemmet, Karolinska Institute, Stockholm, Sweden

F. T. Bosman Institute of Pathology, University of Lausanne, Switzerland

M. Bouvet Department of Surgery, University of California San Diego, Moores Cancer Center, La Jolla, CA, USA

J. Boyd Department of Human and Molecular Genetics, Herbert Wertheim College of Medicine, Florida International

University, Miami, FL, USA

G. Broich Gruppo Policlinico di Monza, Monza, Italy

Ø. S. Bruland Department of Medical Oncology-Radiotherapy, Norwegian Radium Hospital, Oslo, Norway

J. M. Buatti Department of Radiation Oncology, University of Iowa, Iowa City, IA, USA

M. Carbone Cancer Research Center of Hawaii, Honolulu, HI, USA

C. Carlberg Institute of Biomedicine, University of Eastern Finland, Kuopio, Finland

A. F. Chambers Department of Oncology, London Regional Cancer Center, London, Ontario, Canada

P. Chandra Abt. für Molekularbiologie, Klinikum Wolfgang Goethe-Universität, Frankfurt am Main, Germany

L. Cheng Department of Pathology, Indiana University School of Medicine, Indianapolis, IN, USA

J.-G. Chung Department of Biological Science and Technology, China Medical University, Taichung, Taiwan, ROC

R. Clarke Georgetown University Medical Center, Washington, DC, USA

A.P. Conley Department of Sarcoma Medical Oncology, University of Texas MD Anderson Cancer Center, Houston, TX, USA

E. De Clercq Rega Institute for Medical Research, Katholieke Universiteit Leuven, Belgium

W. Den Otter VUMC, Department of Urology, Amsterdam, The Netherlands

E. P. Diamandis Department of Pathology and Laboratory Medicine, Mount Sinai Hospital, Toronto, Ontario, Canada

G. Th. Diamandopoulos Department of Pathology, Harvard Medical School, Boston, MA, USA

L. Egevad Department of Pathology, Karolinska University Hospital, Stockholm, Sweden
 D. W. Felsher Division of Oncology, Stanford University School of Medicine, Stanford, CA, USA

J. A. Fernandez-Pol Metalloproteomics, LLC, Chesterfield, MO, USA

H. Fu Discovery and Developmental Therapeuticis Program of Winship Cancer Institute, Emory University, Atlanta,

GA, USA

B. Fuchs Balgrist University Hospital, Zurich, Switzerland

D. Fuchs Center for Chemistry and Biomedicine, Innsbruck Medical University, Innsbruck, Austria

D. Fukumura Edwin L. Steele Laboratories, Department of Radiation Oncology, Harvard Medical School, Boston, MA, USA

G. Gabbiani Department of Pathology, University of Geneva, Switzerland

R. Ganapathi Levine Cancer Institute, Carolinas HealthCare System, Charlotte, NC, USA

ANTICANCER RESEARCH 41: (2021)

A. Giordano Sbarro Institute for Cancer Research, Temple University, Philadelphia, PA, USA

M. Gnant Department of Surgery, Medical University of Vienna, Austria

R. H. Goldfarb R. H. Goldfarb Sopherion Therapeutics, LLC and Translational Oncology and ImmunoEngineering

Consulting, Guilford, CT, USA

J.S. Greenberger Department of Radiation Oncology, University of Pittsburgh, PA, USA

A. Helland Oslo University Hospital-Radium Hospital, Oslo, Norway

L. Helson Sign Path Pharma, Inc., Quakertown, PA, USA

R. Henriksson Department of Experimental Oncology, Umeå University, Umeå, Sweden
 R. M. Hoffman Department of Surgery, University of California, San Diego, CA, USA

P. Hohenberger Division of Surgical Oncology and Thoracic Surgery, Medical Faculty, University of Heidelberg, Mannheim,

Germany

F. Janku Department of Investigational Cancer Therapeutics, University of Texas MD Anderson Cancer Center,

Houston, TX, USA

S. C. Jhanwar Laboratory of Solid Tumor Genetics, Department of Medicine, Memorial Sloan-Kettering Cancer Center,

New York, NY, USA

J. V. Johannessen Department of Pathology, The Norwegian Radium Hospital, Oslo, Norway

R. Jones Sarcoma Unit, Royal Marsden Hospital, London, UKB. Kaina Institute of Toxicology, University of Mainz, Germany

P.-L. Kellokumpu-Lehtinen Department of Oncology and Radiotherapy, Tampere University Hospital, Tampere, Finland

D. G. Kieback Helios Medical Center Schleswig, Schleswig, Germany

R. Klapdor Medical Clinic, University of Hamburg, Germany

K.L. Knutson Department of Immunology, Mayo Clinic College of Medicine, Jacksonville, FL, USA

H. Kobayashi Laboratory of Molecular Theranostics, NCI/NIH, Bethesda, MD, USA
 S. D. Kottaridis Department of Virology, Hellenic Anticancer Institute, Athens, Greece

G. R. F. Krueger Center of Anatomy II, University of Cologne Medical School, Cologne, Germany

Pat M. Kumar Department of Biological Sciences, Manchester Metropolitan University, Manchester, UK
Shant Kumar Department Pathology, University of Manchester Medical School, Manchester, UK

O. D. Laerum
 Department of Pathology, The Gade Institute, University of Bergen, Norway

 F. J. Lejeune
 Fondation du Centre Pluridisciplinaire d' Oncologie, CHUV, Lausanne, Switzerland

 S. Linder
 Department of Medicine and Health, Linköping University, Linköping, Sweden

 L. F. Liu
 Department of Pharmacology, UMD of New Jersey, Piscataway, NJ, USA

D. M. Lopez Department of Microbiology and Immunology, University of Miami School of Medicine, Miami,

FL, USA

E. Lundgren Unit of Applied Cell and Molecular Biology, University of Umeä, Sweden

Y. Maehara Department of Surgery and Science, Graduate School of Medical Sciences, Kyushu University, Fukuoka,

Japan

J. Maher Department of Research Oncology, Division of Cancer Studies, King's College London School of Medicine,

Guy's Hospital Campus, London, UK

J. Marescaux IRCAD, University of Strasbourg, France

S. S. Martin Department of Physiology, University of Maryland School of Medicine, Baltimore, MD, USA

S. Mitra The Methodist Hospital Research Institute (TMHRI), Houston, TX, USA

S. Miyamoto Department of Obstetrics and Gynecology, Faculty of Medicine, Fukuoka University, Fukuoka, Japan

S. Moncada Manchester Cancer Research Centre, University of Manchester, Manchester, UK
 M. Mueller Hochschule Furtwangen University, Villingen-Schwenningen, Germany
 F. M. Muggia New York University Cancer Institute, School of Medicine, NY, USA

ANTICANCER RESEARCH 41: (2021)

M. Namiki Department of Integrative Cancer Therapy and Urology, Kanazawa University Graduate School of Medical

Science, Kanazawa City, Ishikawa, Japan

K. Nilsson Rudbeck Laboratory, Department of Genetics and Pathology, Uppsala University Hospital, Sweden

S. Pathak Department of Cell Biology, University of Texas, Houston, TX, USA

J. L. Persson Section for Experimental Cancer Research, Clinical Research Center, Lund University, Malmö, Sweden

G. J. Pilkington Department of Cellular and Molecules Neurooncology, School of Pharmacy and Biomedical Sciences,

University of Portsmouth, UK

C. D. Platsoucas College of Sciences, Old Dominion University, Norfolk, VA, USA

A. Polliack Department of Haematology, Hadassah University Hospital and Medical School, Jerusalem, Israel

D. Rades Department of Radiation Oncology, University of Lübeck, Lübeck, Germany
 M. Rigaud Laboratory Biochimie et Génétique Molecules, Faculté de Médecine de Limoges, France

U. Ringborg
 Department of General Oncology, Karolinska Hospital, Stockholm, Sweden
 M. Roselli
 Department of Medical Oncology, University of Rome "Tor Vergata", Italy
 S.T. Rosen
 Comprehensive Cancer Center and Beckman Research Institute, Duarte, CA, USA

A. Schauer Zentrum Pathologie, Georg-August Universität, Göttingen, Germany

M. Schneider Department of Organic Chemistry, Bergische University, Wuppertal, Germany

J. Sehouli Department of Gynecology, Center for Oncological Surgery, Charité Comprehensive Cancer Center, Berlin,

Germany

A. Seth Laboratory of Molecular Pathology, Sunnybrook Research Institute and University of Toronto, Ontario, Canada

G. V. Sherbet Cancer Research Unit, University of Newcastle-upon-Tyne, UK

A. Slominski Department of Dermatology, University of Alabama at Birmingham, Birmingham, AL, USA

G.-I. Soma Department of Integrated and Holistic Immunology, Faculty of Medicine, Kagawa University,

Kagawa, Japan

G. S. Stein Department of Biochemistry, College of Medicine, University of Vermont, Burlington, VT, USA

T. Stigbrand Department of Immunology, Umeä University, Umeä, Sweden
 T. M. Theophanides Department of Chemistry, Technical University of Athens, Greece

P. M. Ueland Clinical Pharmacolocy Unit, Department of Pharmacology, University of Bergen, Norway
 H. Van Vlierberghe Department of Gastroenterology and Hepatology, Ghent University Hospital, Ghent, Belgium

R.G. Vile Department of Immunology, Mayo Clinic, Rochester, MN, USA

M. Weller Department of Neurology, University Hospital Zurich, Zurich, Switzerland

J. Westermarck Centre for Biotechnology, University of Turku, Turku, Finland

B. Westermark Rudbecklaboratoriet, Department of Genetics and Pathology, University of Uppsala, Sweden

Y. Yen Taipei Medical University, Taipei, Taiwan, ROC

M. R. I. Young
 Ralph H. Johnson VA Medical Center, Medical University of South Carolina, Charleston, SC, USA
 B. Zumoff
 Division of Endocrinology and Metabolism, Beth Israel Medical Center, New York, NY, USA

Acknowledgements

The IIAR appreciates the support of the following Foundations, Institutions, Organizations and Universities for the works published in Anticancer Research, Volume 40, 2020.

AbbVie Pharmaceuticals, Lake Bluff, IL, U.S.A.

Academy of Finland, Helsinki, Finland

AceStatistics Support Co, Ltd., Essex, U.K.

Advanced Intelligence Project (AIP) - Public/Private R&D Investment Strategic Expansion Program (PRISM), Japan Science and Technology Agency (JST), Kawaguchi, Japan

Advanced Light Microscopy Facility, University of Patras, Patras, Greece

Advanced Research Foundation, U.S.A.

Agency for Medical Research, Ministry of Health of the Czech Republic, Czech Republic

Agioi Anargyroi General Hospital, Athens, Greece

Ajmera Family Chair in Urologic Oncology, Sunnybrook Hospital, Toronto, ON, Canada

All Children's Hospital Foundation, St Petersburg, FL, U.S.A.

American Cancer Society, Atlanta, GA, U.S.A.

American College of Surgeons, Committee on Cancer (CoC), Chicago, IL, U.S.A.

American Medical Association, Chicago, IL, U.S.A.

Amgen, Thousand Oaks, CA, U.S.A.

An Nan Hospital, China Medical University, Tainan, Taiwan, R.O.C.

Analytic Healthcare Quality User Information Program of the National Research, Development and Innovation Fund, Hungarian Government, Hungary

Animal Biotechnology Center, Feature Areas Research Center Program, Higher Education Sprout Project, Ministry of Education in Taiwan, Taiwan, R.O.C.

Applied Medical Research Laboratory, Japan

ARC Foundation, Vancouver, BC, Canada

Archie and Betty McCallum, U.S.A.

Armauer Hansen Research Institute, Addis Ababa, Ethiopia Asan Institute for Life Sciences, Asan Medical Center,

Seoul, Republic of Korea

ASCO Gastrointestinal Cancers Symposium, San Francisco, CA, U.S.A.

Asia University, Taichung, Taiwan, R.O.C.

Asociación Costarricense de Oncología Médicos

(ACOMED), San José, Costa Rica

Association of Healthcare Corporation, Japan

Associazione Italiana per la Ricerca sul Cancro (AIRC), Milan, Italy Ateneo Sapienza University, Rome, Italy

Augusta University Georgia Cancer Center, Augusta, GA, U.S.A.

Basic Science Research Program, National Research Foundation of Korea (NRF), Ministry of Education, Science and Technology, Seoul, Republic of Korea

BBMRI-CZ, Bank of Clinical Specimens Focused on Cancer, Brno, Czech Republic

Berlin Air Quality Network, Berlin, Germany

Berlin Institute of Health, Berlin, Germany

Bethel University, Saint Paul, MN, U.S.A.

Biobank of Kaohsiung Veterans General Hospital, Kaohsiung City, Taiwan, R.O.C.

Biobank of the Center for Integrated Oncology Cologne Bonn, University Hospital Bonn, Bonn, Germany

Biohit Oyj, Helsinki, Finland

Biomedical Research Institute Grant, Kyungpook National University Hospital, Daegu, Republic of Korea

Biomedical Research Institute, Gyeongsang National University Hospital, Jinju, Republic of Korea

Bio-oriented Technology Research Advancement Institution (BRAIN), National Agriculture and Food Research Organization (NARO), Japan

Biophotonics Laboratory, Centro de Biotecnologia (CBiotec), Universidade Federal da Paraíba (UFPB), Brazil

Biosignal Research Center, Kobe University, Kobe, Japan Bonati Research Stipend, U.S.A.

Boston Medical Center Plastic Surgery Department, Boston, MA, U.S.A.

Breast Cancer Hope Foundation, London, U.K.

Canadian Breast Cancer Foundation Endowed Chair in Breast Cancer Research, Canada

Canadian Cancer Society, Toronto, ON, Canada Canadian Institutes of Health Research, Ottawa, ON,

Canadian Tumour Repository Network (CTRNet), Canada Cancer Association of South Africa (CANSA), South Africa

Cancer Center Amsterdam, Amsterdam, the Netherlands Cancer Center, Buddhist Tzu Chi General Hospital, Hualien City, Taiwan, R.O.C.

- Cancer Society of Finland, Helsinki, Finland
- Carnegie Large Research Grant, Carnegie Corporation Transformation Programme, University of the Witwatersrand, Johannesburg, South Africa
- Center for Animal Experiments, Central Research Facilities, Kindai University Faculty of Medicine, Osaka, Japan
- Center for Morphological Analyses, Kindai University Faculty of Medicine, Osaka, Japan
- Center for NMR Research Facilities, Penn State College of Medicine, Hershey, PA, U.S.A.
- Center for Research Advancement and Collaboration, Japan Center for Strategic Research Project, University of the Ryukyus, Nishihara, Japan
- Center for the Integrative and Evolutionary Galliformes Genomics (iEGG), Taiwan, R.O.C.
- Center of Biotechnology (CBIOT), Universidade Federal do Rio Grande do Sul (UFRGS), Porto Alegre, Brazil
- Center of Reconstruction Neuroscience –NEURORECON, Czech Republic
- Central Health Council, Ministry of Health of Greece, Athens, Greece
- Central Norway Regional Health Authority, Norway Centre de Radiothérapie et d'Oncologie de Moyenne Garonne, Agen, France
- Centre Hospitalier de l'Agglomération Montargoise, Amilly, France
- Centre Hospitalier de Cholet, Cholet, France
- Centre Oscar Lambret, Lille, France
- Centro de Microscopia e Microanálise (CMM), Universidade Federal do Rio Grande do Sul (UFRGS), Porto Alegre, Brazil
- Chang Bing Show Chwan Memorial Hospital, Changhua, Taiwan, R.O.C.
- Changhua Christian Hospital, Changhua, Taiwan, R.O.C. Charité Universitätsmedizin Berlin, Berlin, Germany Charles and Mary Latham Foundation Fund, Washington, DC, U.S.A.
- Charles University in Prague, Prague, Czech Republic Charles University Research Fund (PROGRES), Charles University in Prague, Prague, Czech Republic
- Chia-Yi Christian Hospital, Chia-Yi, Taiwan, R.O.C.
- Children's Oncology Group, Seattle, WA, U.S.A.
- Chi-Mei Medical Center, Tainan, Taiwan, R.O.C.
- China Medical University Hospital, Taichung, Taiwan, R.O.C.
- China Medical University, Taichung, Taiwan, R.O.C. China Scholarship Council (CSC), P.R. China Cholangiocarcinoma Research Institute (CARI), Thailand

- Chosun University, Gwangju, Republic of Korea
- CHU de Poitiers Hôpital de la Milétrie, Poitiers, France
- CHU Limoges Dupuytren, Limoges, France
- Chuden Hospital, Hiroshima, Japan
- Chulalongkorn University, Bangkok, Thailand
- CIF Grant, Faculty of Science, Mahidol University, Salaya, Thailand
- City of Hope, National Medical Center, Duarte, CA, U.S.A.
- Cleveland Clinic Global Cardiovascular Innovations Center, Cleveland, OH, U.S.A.
- Clinical Medicine Research Institute, Chosun University Hospital, Gwangju, Republic of Korea
- Clinical Medicine Research Laboratory, National Yang-Ming University Hospital, Yilan, Taiwan, R.O.C.
- Clinical Research Center, Dokkyo Medical University School of Medicine, Mibu, Japan
- Clinical Study Support Center, Wakayama Medical University Hospital, Wakayama, Japan
- Clinique de l'Union, Saint-Jean, France
- Cohera Medical Inc., Pittsburgh, PA, U.S.A.
- Comisión de Operación y Fomentode Actividades Académicas (COFAA), Instituto Politécnico Nacional (IPN), Mexico City, Mexico
- Consejo Nacional De Ciencia y Tecnología (CONACyT), Mexico City, Mexico
- Conselho Nacional de Desenvolvimento Cientifico e Tecnologico (CNPq), Brasilia, Brazil
- Control of Innate Immunity Technology Research Association, Takamatsu, Japan
- Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES), Brasilia, Brazil
- Core Laboratory, Department of Research, Taipei Tzu Chi Hospital, Buddhist Tzu Chi Medical Foundation, Hualien City, Taiwan, R.O.C.
- Council for Science, Technology and Innovation (CSTI), Cabinet Office, Japan
- Cross-ministerial Strategic Innovation Promotion Program (SIP), Japan
- CytoGen Inc., Seoul, Republic of Korea
- Czech Science Foundation, Czech Republic
- Daisan Hospital, Jikei University, Tokyo, Japan
- Daiwa Securities Health Foundation, Tokyo, Japan
- Danish Cancer Association, Copenhagen, Denmark
- Danish Gynaecological Cancer Database, Copenhagen, Denmark
- Dean of Research and Graduate Studies, Federal University of Pará, Belem, Brazil

- Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, Saudi Arabia
- DEKART Proteomics Laboratory, Kocaeli University Medical School, Kocaeli, Turkey
- Department of Biostatistics, Catholic Research Coordinating Center, The Catholic University of Korea, Daejeon, Republic of Korea
- Department of Biostatistics, Yokohama City University School of Medicine, Yokohama, Japan
- Department of Breast and Endocrine Surgery, Osaka City University Graduate School of Medicine, Osaka, Japan
- Department of Chemistry, Howard University, Washington, DC, U.S.A.
- Department of Clinical and Translational Physiology, Kyoto Pharmaceutical University, Kyoto, Japan
- Department of Clinical Oncology, Kyoto Pharmaceutical University, Kyoto, Japan
- Department of Clinical Statistics, Graduate School of Medicine, Yokohama City University, Yokohama, Japan
- Department of Education Title III Program, Clark Atlanta University, Atlanta, GA, U.S.A.
- Department of Environmental Medicine, Kurume University School of Medicine, Kurume, Japan
- Department of Experimental, Diagnostic and Specialty Medicine (DIMES), S. Orsola-Malpighi University Hospital, Bologna, Italy
- Department of Gastroenterological Surgery, Osaka University Graduate School of Medicine, Osaka, Japan
- Department of Gastroenterology and Hepatology, Nagoya University Graduate School of Medicine, Nagoya, Japan
- Department of General Thoracic Surgery and Breast and Endocrinological Surgery, Okayama, Japan
- Department of Histology and Embryology, Lithuanian University of Health Sciences, Kaunas, Lithuania
- Department of Integrated Diagnostic Pathology, Nippon Medical School, Tokyo, Japan
- Department of Internal Medicine Oncology, General Hospital of Thessaloniki Papageorgiou, Thessaloniki, Greece
- Department of International Medical Communications, Tokyo Medical University, Tokyo, Japan
- Department of Medical Research, China Medical University Hospital, Taichung, Taiwan, R.O.C.
- Department of Medicine Clinic III, Hematology, Oncology and Palliative Medicine, Rostock University Medical Center, Rostock, Germany
- Department of Neuroscience, Imaging and Clinical Sciences, "G. D'Annunzio" University of Chieti, Chieti, Italy

- Department of Next Generation Cell and Immune Therapy, Juntendo University School of Medicine, Tokyo, Japan
- Department of Oncology, University Hospital of Lausanne-CHUV, Lausanne, Switzerland
- Department of Otorhinolaryngology Head and Neck Surgery, University Hospital Mannheim, University of Heidelberg, Mannheim, Germany
- Department of Pathology and Laboratory Medicine, Nagoya University of Hospital, Nagoya, Japan
- Department of Pathology, Kanagawa Cancer Center, Yokohama, Japan
- Department of Pathology, Kangbuk Samsung Hospital, Seoul, Republic of Korea
- Department of Pathology, Medical School, University of Athens, Athens, Greece
- Department of Pathology, Nagasaki University Hospital, Nagasaki, Japan
- Department of Pathology, Osaka University Hospital, Osaka, Japan
- Department of Pathology, Saitama Medical University International Medical Center, Saitama, Japan
- Department of Pathology, School of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece
- Department of Pediatrics, University of California San Diego School of Medicine, San Diego, CA, U.S.A.
- Department of Pharmacology and Therapeutics, Faculty of Pharmacy, Kuwait University, Kuwait City, Kuwait
- Department of Physiology, School of Medicine, Autonomous National University of Mexico (UNAM), Mexico City, Mexico
- Department of Preventive Medicine, Tokai University School of Medicine, Hiratsuka, Japan
- Department of Radiation Oncology, Gunma University Graduate School of Medicine, Maebashi, Japan
- Department of Radiation Oncology, Osaka International Cancer Institute, Osaka, Japan
- Department of Radiation Oncology, Stanford University School of Medicine, California, CA, U.S.A.
- Department of Radiotherapy, Yamaguchi University Graduate School of Medicine, Ube, Japan
- Department of Surgery, International University of Health and Welfare Hospital, Ōtawara, Japan
- Department of Surgery, University of Pécs Medical School, Pécs, Hungary
- Department of Urology, Arad Hospital, Tehran, Iran
- Department of Urology, Kyoto Prefectural University of Medicine, Kyoto, Japan
- Departments of Medicine and Radiation Oncology, Rutgers New Jersey Medical School, Newark, NJ, U.S.A.

Departments of Pathology and Thoracic Surgery, Kanazawa Medical University, Uchinada, Japan

Departments of Surgery and Pharmacology and Physiology, Drexel University College of Medicine, Philadelphia, PA, U.S.A.

Development of Characteristic Education Grant, Japan Private School Promotion Foundation, Japan

Ditmanson Medical Foundation, Chiayi Christian Hospital, Chiayi, Taiwan, R.O.C.

Division of Oncology, Department of Medicine, University General Hospital, Patras, Greece

Dutch Cancer Society, Amsterdam, the Netherlands

E-Da Cancer Hospital, Kaohsiung, Taiwan, R.O.C. EDGC, Inc., Incheon, Republic of Korea

Edmond Odette Foundation, Toronto, ON, Canada

Engdahl Family Foundation, Anoka, MN, U.S.A.

Engineering Division, Hospital de Clínicas de Porto Alegre (HCPA), Porto Alegre, RS, Brazil

Epidemiological Strategy and Medical Economics (ESME) Scientific Committee,

Erasmus University Rotterdam, Rotterdam, the Netherlands Estímulo alDesempeño de los Investigadores (EDI) of IPN, Paris, France

Ethicon Endosurgery, Cincinnati, OH, U.S.A.

Ethiopian Airlines Health Office, Addis Ababa, Ethiopia European MRI and Rectal Cancer Surgery (EuMaRCS) Study Group

European Regional Development Fund (ERDF), Brussels, Belgium

European Research Council

European Social Fund, Brussels, Belgium

European Union's Seventh Framework Program

EVO-funding, Kuopio University Hospital, Kuopio, Finland

Excellence Program, State of Mecklenburg-Vorpommern, Germany

Experimental, Educational and Research Center ELPEN, Greece

Faculty of Dentistry, Thammasat University, Bangkok, Thailand

Faculty of Medicine, University of Porto, Porto, Portugal Faculty of Pharmaceutical Sciences, Chulalongkorn University, Bangkok, Thailand

Far Eastern Memorial Hospital, New Taipei, Taiwan, R.O.C.

Federal Ministry of Science, Research and Economy (BMWFW), Vienna, Austria

Federal Ministry of Transport, Innovation and Technology (BMVIT), Vienna, Austria

Federal University of Rio Grande do Sul, Porto Alegre, Brazil

Financiadora de Estudos e Projetos (FINEP), Brazil

First Faculty of Medicine, Charles University in Prague, Prague, Czech Republic

Fondation du Cancer du Sein du Québec, Montreal, Canada

Fondazione Cassa di Risparmio di Perugia, Perugia, Italy Fondazione Roma, Rome, Italy

Fonds de Recherche du Québec - Santé (FRQS), Montreal, Canada

Foundation for the Promotion of Cancer Research, Japan

Foundation of Osaka Cancer Research, Osaka, Japan

Friedrich-Alexander-University Erlangen-Nuremberg (FAU), Erlangen, Germany

Fukuoka Foundation for Sound Health Cancer Research Fund, Japan

Fukuoka Wajiro Hospital, Fukuoka, Japan

Fulbright Program, U.S.A.

Fundação de Amparo à Pesquisa do Estado do Piauí (FAPEPI), Brazil

Fundação de Amparo à Pesquisa do Estado do Rio de Janeiro (FAPERJ), Brazil

Fundação de Amparo à Pesquisa do Estadodo Rio Grande do Sul (FAPERGS), Brazil

Fundação de Apoio à Pesquisa do Estado da Paraíba (FAPESQ-PB),Brazil

Fundação para a Ciência e a Tecnologia (FCT), Ministério da Ciência e Ensino Superior, Portugal

Fundo Europeu de Desenvolvimento Regional (FEDER), Lisbon, Portugal

Gachon University, Incheon, Republic of Korea

General Hospital of Heraklion Pananio-Venizelio, Heraklion, Greece

General University Hospital in Prague, Prague, Czech Republic

Georgia Research Alliance (GRA) Venture Lab Grant, U.S.A.

German Cancer Research Center (DKFZ), Heidelberg, Germany

German Federal Ministry of Education and Research (BMBF), Germany

Gil Medical Center, Gachon University, Incheon, Republic of Korea

GINECO Study Office

GlaxoSmithKline plc, London, U.K.

Global Robotics Institute, Florida Hospital, Orlando, FL, U.S.A.

Graduate Research Group of the Hospital de Clínicas de Porto Alegre (GPPG), Porto Alegre, Brazil

Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan

Graduate School, Chulalongkorn University, Bangkok, Thailand

Graduate School, Khon Kaen University, Khon Kaen, Thailand

Grand Forks Human Nutrition Research Center, Washington, DC, U.S.A.

Grant-in-Aid for Scientific Research, Ministry of Health, Labor and Welfare, Tokyo, Japan

Grants-in-Aid for Scientific Research (KAKENHI), Japan Society for the Promotion of Science, Tokyo, Japan

Greek National Funds, Athens, Greece

Grigore T. Popa University of Medicine and Pharmacy, Iasi, Romania

Grünenthal Foundation, Portugal

GSTU Foundation, Palermo, Italy

Gunma University Heavy-Ion Medical Center, Gunma, Japan

Gunma University Hospital, Gunma, Japan

Gyeongsang National University Hospital Biomedical Research Institute, Jinju, Republic of Korea

Hadassah Braun School of Public Health, Hebrew University, Jerusalem, Israel

Hallym University Research Fund, Chuncheon, Republic of Korea

Harasanshin Hospital, Fukuoka, Japan

Heikki, Aino and Aarne Korhonen Foundation, Finland Hellenic Society of Medical Oncology (HeSMO), Athens, Greece

Helsinki University Central Hospital Research Foundation, Helsinki, Finland

Heuermann HF Technik, Aachen, Germany

Higashiosaka City Medical Center, Osaka, Japan

High Throughput Biomedicine Unit (HTB), Institute for Molecular Medicine Finland (FIMM), Finland

Hiroshima Red Cross Hospital and Atomic-bomb Survivors Hospital, Hiroshima, Japan

Hôpital Privé DrômeArdèche - Clinique Pasteur, Guilherand-Granges, France

Hôpital Privé Sainte-Marie, Chalon-sur-Saône, France

Hospital Bichat, Paris, France

Howard University, Washington, D.C., U.S.A.

Human Genome Center, Japan

Hyogo Prefectural Amagasaki General Medical Center, Hyogo, Japan

Icahn School of Medicine at Mount Sinai, New York, NY, U.S.A.

Ichiro Kanehara Foundation, Promotion of Medical Science and Medical Care, Japan

IC-MedTech Co., San Diego, CA, U.S.A.

Iizuka Hospital, Fukuoka, Japan

Inje University Busan Paik Hospital, Busan, Republic of Korea

Innovative Medicines Initiative, Brussels, Belgium

Institut Jean Godinot, Reims, France

Institute for Experimental Surgery, University of Rostock, Rostock, Germany

Institute of Biomathematics, University Hospital Mannheim, University of Heidelberg, Mannheim, Germany

Institute of Cytology and Genetics, Novosibirsk, Russia Institute of Medical Biochemistry and Laboratory Diagnostics, First Faculty of Medicine, Charles University, Prague, Czech Republic

Institute of Medical Biometry and Statistics, University of Freiburg, Freiburg im Breisgau, Germany

Institute of Medical Science, The University of Tokyo, Tokyo, Japan

Institute of Molecular and Cellular Biology, Novosibirsk, Russia

Instituto de Pesquisa em Fármacos e Medicamentos (IPeFarM), Universidade Federal da Paraíba (UFPB), Brazil intégrale Co., Ltd., Tokushima, Japan

International Research Network, Thailand Research Fund (TRF), Thailand

Interreg Deutschland-Danmark, Kiel, Germany

Intramural Funding of the School of Medicine and Health Sciences, University of Oldenburg, Oldenburg, Germany

Intramural Research Program, National Cancer Institute,

National Institutes of Health, Department of Health and Human Services, Bethesda, MD, U.S.A.

Inui Immunotherapy Clinic, Osaka, Japan

Iran National Scientific Foundation (INSF), Iran

I-Shou University, Kaohsiung, Taiwan, R.O.C.

Italian Association of Radiation Oncology (AIRO) Group for Gastrointestinal Cancer, Italy

Italian Ministry of Health, Italy

Jane and Aatos Erkko Foundation, Finland Japan Agency for Medical Research and Development (AMED), Tokyo, Japan Japan Science and Technology Agency (JST), Kawaguchi, Japan

Japanese Respiratory Foundation, Tokyo, Japan Japanese Society for Radiation Oncology, Japan JCHO Kyushu Hospital, Kitakyushu, Japan Jikei University School of Medicine, Tokyo, Japan

K2M Group, Leesburg, VA, U.S.A.

Kanagawa Cancer Center Hospital-Research Institute, Kanagawa, Japan

Kanzawa Medical Research Foundation, Yoshino, Japan Kaohsiung Medical University Hospital, Kaohsiung, Taiwan, R.O.C.

Karolinska Institute, Stockholm, Sweden

Kawaguchi Municipal Medical Center, Kawaguchi, Japan Kawasaki Medical School General Medical Center, Okayama, Japan

Kawasaki Medical School, Kurashiki, Japan

K-computer, RIKEN Advanced Institute for Computational Science, HPCI System Research Project, Japan

Khon Kaen University Research Fund, Khon Kaen, Thailand

Khon Kaen University, Khon Kaen, Thailand KI.EI.OTO.YO Support Foundation, MSD Life Science Foundation, Astellas Research Support, Astellas Pharma Inc., Tokyo, Japan

Kissei Pharmaceutical Co. Ltd., Matsumoto, Japan Kitakyushu Municipal Medical Center, Kitakyushu, Japan KKU Publication Clinic, Thailand

Knut & Alice Wallenberg Foundation, Uppsala, Sweden Kobe University, Kobe, Japan

Kocaeli University, Izmit, Turkey

Korea Chemical Ban, Korea Research Institute of Chemical Technology, Republic of Korea

Korea Health Technology R&D Project, Korea Health Industry Development Institute (KHIDI), Ministry of Health & Welfare, Seoul, Republic of Korea

Korea Institute of Oriental Medicine (KIOM), Republic of Korea

Korea Institute of Radiological and Medical Sciences (KIRAMS), Ministry of Science, ICT and Future Planning (MSIP), Gwacheon, Republic of Korea

Korea National University of Transportation, Chungju, Republic of Korea

Korea Research Institute of Chemical Technology, Daejeon, Republic of Korea

Korea University Grant, Seoul, Republic of Korea Korean Research Institute of Bioscience and Biotechnology Research Initiative Program (KRIBB), Republic of Korea Kuopio University Hospital Research Foundation, Kuopio, Finland

Kuwait University, Seoul, Republic of Korea

Kyoto Pharmaceutical University, Kyoto, Japan

Kyung Hee University, Seoul, Republic of Korea

Kyungpook National University Hospital, Daegu, Republic of Korea

Kyushu Breast Cancer Study Group, Fukuoka, Japan Kyushu Central Hospital, Fukuoka, Japan

Laboratório Central de Microscopia Eletrônica (LCME), Universidade Federal de Santa Catarina (UFSC), Florianópolis, SC, Brazil

Laboratório de Tecnologia Mineral e Ambiental (LTM), Universidade Federal do Rio Grande do Sul (UFRGS), Porto Alegre, Brazil

Laboratório Multiusuários de Estudos em Biologia (LAMEB), Centro de Ciências Biológicas (CCB), Universidade Federal de Santa Catarina (UFSC), Florianópolis, SC, Brazil

Laboratory of Molecular Oncology, Hellenic Foundation for Cancer Research, Hellenic Cooperative Oncology Group, Aristotle University of Thessaloniki, Greece

Laboratory of Natural Products (LPN), Universidade Federal do Piauí (UFPI), Teresina, Brazil

Leading Graduate Schools, Cultivating Global Leaders in Heavy-Ion Therapeutics and Engineering, Japan

LEO Foundation, Copenhagen, Denmark

Lindhés Advokatbyrå AB, Stockholm, Sweden

Lion's 5M Hearing Center Grant, Minneapolis, MN, U.S.A.

Lithuanian Research Council, Lithuania

Macrophi Inc., Kagawa, Japan

Mahidol University, Salaya, Thailand

Marmara University Scientific Research Projects, Istanbul, Turkey

Mayo Clinic Center for Individualized Medicine, Rochester, MN, U.S.A.

Medical Centre Rotterdam, Rotterdam, the Netherlands

Medical Faculty, University of Pecs, Pecs, Hungary

Medical Research Center (MRC) Program, National

Research Foundation of Korea (NRF), Republic of Korea

Medical Research Core Facilities Center, Office of Research & Development, China Medical University, Taichung, Taiwan, R.O.C.

Medical Research Council (MRC), London, U.K. Medical Science Research Institute Grant, Kyunghee

Medical Science Research Institute Grant, Kyunghee University Hospital, Gangdong, Republic of Korea

Medical University of Bialystok, Bialystok, Poland

Medical University of Gdansk, Gdansk, Poland

Medical University of Lublin, Lublin, Poland

Medical University Science Park in Košice, Slovakia

Medicinal Plants Research Center (NPPM), Federal University of Piauí, Teresina, Brazil

Medtronic plc, Fridley, MN, U.S.A.

Merck Serono S.A., Darmstadt, Germany

Mesothelioma Applied Research Foundation, Washington, D.C., U.S.A.

Middle Tennessee State University, Murfreesboro, TN, U.S.A.

Minerva Foundation, Finland

Ministério da Ciência e Tecnologia (MCT), Brazil

Ministry of Education and Science of the Russian Federation

Ministry of Education, Culture, Sports, Science and Technology (MEXT), Tokyo, Japan

Ministry of Education, Youth and Sports of the Czech Republic

Ministry of Health and Welfare, Taiwan, R.O.C.

Ministry of Health of the Czech Republic

Ministry of Innovation and Technology, Hungary

Ministry of Science and Technology, Taiwan, R.O.C.

Ministry of Science, ICT & Future Planning (MSIP), Republic of Korea

Minor Equipment Grant WHC Dividend, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa

Miyazaki Prefectural Miyazaki Hospital, Miyazaki, Japan

Nagasaki University Hospital, Nagasaki, Japan Nanjing Medical Science and Technology Development

Foundation, P.R. China

National Cancer Institute (NCI), National Institutes of Health, Department of Health and Human Services, Bethesda, MD, U.S.A.

National Cancer Research Institute, Tokyo, Japan

National Center for Advancing Translational Sciences (NCATS), National Institutes of Health, Department of Health and Human Services, Bethesda, MD, U.S.A.

National Center for Research and Development, Warsaw, Poland

National Centre for Research and Development Strategmed, Poland

National Clinician Scholars Program, Duke University, Durham, NC, U.S.A.

National Health and Medical Research Council of Australia National Health Research Institute, Taiwan, R.O.C.

National Hospital Organization Osaka National Hospital, Osaka, Japan

National Institute for General Medical Science (NIGMS), National Institutes of Health (NIH), Department of Health and Human Services, Bethesda, MD, U.S.A.

National Institute of Minority Health and Health Disparities (NIMHD), NIH, Bethesda, MD, U.S.A.

National Institute of Nursing Research, National Institutes

National Institutes of Health (NIH), Department of Health and Human Services, Bethesda, MD, U.S.A.

National Natural Science Foundation of China

of Health (NIH), Bethesda, MD, U.S.A.

National Research Foundation (NRF)-Thuthuka Grant, Pretoria, South Africa

National Science Centre Grant Opus, Poland

Natural Science Foundation of Guangxi, P.R. China

Nelson Mandela University, Port Elizabeth, South Africa.

Newton Advanced Fellowship, Thailand Research Fund, Thailand

Nihon University, Chiyoda, Japan

Nikkyoko Research Award, Japan

Norwegian University of Science and Technology (NTNU), Trondheim, Norway

Novartis International AG, Basel, Switzerland

Novartis Oncology (Hellas), Athens, Greece

Novartis Pharma GmbH, Nuremberg, Germany

Ogata Foundation, Japan

Ohio State University College of Pharmacy, Columbus, OH, U.S.A.

OHSU Knight BioLibrary, Portland, OR, U.S.A.

OHSU Knight Diagnostic Laboratories, Portland, OR, U.S.A.

Oita Cancer Research Foundation, Oita, Japan

Oita Red Cross Hospital, Oita, Japan

Okayama University Graduate School of Medicine,

Dentistry and Pharmaceutical Sciences, Okayama, Japan

Onassis Foundation, Athens, Greece

Oncodesign, France

Oncology Department, University of Oxford, Oxford, U.K.

Oncolyze Inc., New York, NY, U.S.A.

Ono pharmaceutical Co., Ltd, Osaka, Japan

Opal Oncology Ltd., Cambridge, U.K.

Operational Programme "Innovative Economy", European Regional Development Fund (ERDF), European Union

Operational Programme Competitiveness, Entrepreneurship and Innovation (EPAnEK), European Union

Operational Programme Research, Development and Education (OP RDE), European Union

Organic Synthesis Shared Resource, Penn State Cancer Institute, Hershey, PA, U.S.A.

Osaka City University Graduate School of Medicine, Osaka, Japan

Osaka City University Hospital, Osaka, Japan Osaka General Medical Center, Osaka, Japan Oulu University Hospital MRC Grant, Oulu, Finland

Päivikki ja Sakari Sohlberg Foundation, Helsinki, Finland Palacky University Olomouc, Olomouc, Czech Republic Penn State Hershey Milton S. Hershey Medical Center, Hershey, PA, U.S.A.

Pharma Crea Kobe Co.Ltd., Kobe, Japan PharmaMar, Colmenar Viejo, Spain

Picower Institute, Massachusetts Institute of Technology, Cambridge, MA, U.S.A.

Plastic Surgery Foundation, Arlington Heights, IL, U.S.A. Polish Adult Leukemia Group (PALG), Poland

Polish Ministry of Science and Higher Education

Polish National Science Center

Polka Dot Mama Melanoma Foundation, Cary, NC, U.S.A.

Priority Issue on Post-K Computer, Tokyo, Japan

Programa de Apoio a Núcleos Emergentes (PRONEM), Brazil

Programa Institucional de Formación de Investigadores del IPN (PIFI), Mexico

Programa Operacional Capital Humano (POCH), Portugal Project for Cancer Research and Therapeutic Evolution (P-CREATE), Japan Agency for Medical Research and Development (AMED), Tokyo, Japan

Pró-Saúde Associação Beneficente de AssistênciaSocial e Hospitalar, Brazil

Public Trust Surgery Research Fund, Japan

QST Hospital, Chiba, Japan

Quantum and Radiological Science and Technology (QST), National Institute of Radiological Sciences (NIRS), Chiba, Japan

Radiumhospitalets Legater, Oslo, Norway

Ratchadaphiseksomphot Fund, Chulalongkorn University, Bangkok, Thailand

RayVio Corp., Hayward, CA, U.S.A.

Research Administration, Kuwait University Research Grant, Kuwait City, Kuwait

Research Center for Molecular Medicine, Analysis Center of Life Science, Faculty of Medicine, Hiroshima University, Hiroshima, Japan

Research Fund of Istanbul University, Istanbul, Turkey

Research Fund of the Department of Medical Research, China Medical University Hospital, Taichung, Taiwan, R.O.C.

Research Fund of Tung's Taichung Metro Harbor Hospital, Taichung, Taiwan, R.O.C.

Research in Design for Discovery Within Learning Environments (RIDDLE Lab), New York, NY, U.S.A.

Research Incentive Fund, Fundo de Incentivo à Pesquisa e Eventos (FIPE), Hospital de Clínicas de Porto Alegre (HCPA), Porto Alegre, Brazil

Research Institute for Convergence of Biomedical Science and Technology Grant, Pusan National University Yangsan Hospital, Yangsan, Republic of Korea

Research Instrument Center, Khon Kaen University, Khon Kaen, Thailand

Research Project with Heavy Ions, National Institute of Radiological Sciences, Technology of Japan, Chiba, Japan

Research Resettlement Fund, Seoul National University, Seoul, Republic of Korea

Research Support Center, Kyushu University Graduate School of Medical Sciences, Fukuoka, Japan

Réseau de recherche sur le cancer, Canada

Roche S.A.S., Paris, France

Roswell Country Club Prostate Cancer Research Award, Winship Cancer Institute, Emory University, Atlanta, GA, U.S.A.

Roswell Park Cancer Institute, Buffalo, NY, U.S.A.

Royal College of Surgeons of England, London, U.K.

Royal Society, Bangkok, Thailand

Russian Ministry of Science and High Education

Ryukyu Society for the Promotion of Oto-Rhino-Laryngology, Japan

S&P GmbH, Augsburg, Germany

Sagara Hospital, Alappuzha, India

Saudi Arabian Ministry of Education

Science Achievement Scholarship, Thailand

Science of Health Care Delivery, Robert D. and Patricia E. Kern Center, Rochester, MN, U.S.A.

Scientific Cancer Cell Biology Group, Wroclaw Medical University, Wroclaw, Poland

Screening Laboratory of Biological Activity Test and Collection of Biological Material, Faculty of Pharmacy, Division of Laboratory Diagnostics, Wroclaw Medical University, Wroclaw, Poland

Senior Research Scholar Grant, Thailand Research Fund, Bangkok, Thailand

Seoul National University Hospital (SNUH) Research Fund, Seoul, Republic of Korea

SGH Foundation, Japan

Shinshu Medical Foundation, Matsumoto, Japan

Shizuoka Cancer Center Hospital, Shizuoka, Japan

Shizuoka Prefectural Government, Japan

Showa University, Shinagawa, Japan

Sigma Zeta National Science & Mathematics Honor Society Student Research Award, Lebanon, IL, U.S.A.

Sigrid Jusélius Foundation, Finland

Sistema Nacional de Investigadores (SNI), Mexico City, Mexico

Slovak Grant Agency, Bratislava, Slovakia

Slovak Research and Development Agency, Bratislava, Slovakia

Smoking Research Foundation, Japan

Social Hearth Corporation Foundation Pond Friends Association, Fukuoka Wajiro Hospital, Fukuoka, Japan

Soonchunhyang University Research Fund, Asan, Republic

of Korea St. Luke's International University, Tokyo, Japan

Statutory Funds, Department of Molecular and Cellular

Biology, National Science Centre, Warsaw, Poland

Stellenbosch University, Stellenbosch, South Africa Stockholm Cancer Society, Stockholm, Sweden

Stockholm City Council, Stockholm, Sweden

Strategic Promotion for Practical Application of Innovative

Medical Technology (TR-SPRINT), Japan

Strategic Research Council of Denmark, Denmark

Stroke Grant

Styrian Business Promotion Agency (SFG), Graz, Austria

Sunplanet Co., Ltd., Tokyo, Japan

Supercomputer System, Human Genome Center, Institute of Medical Science, University of Tokyo, Tokyo, Japan

Support Centre for Medical Research and Education, Tokai University, Tokyo, Japan

Swedish Cancer and Allergy Foundation, Sweden

Swedish Cancer Foundation, Sweden

Swedish Cancer Society, Sweden

Swedish Childhood Cancer Fund, Sweden

Swedish Heart and Lung Foundation, Sweden

Swedish Research Council, Sweden

Szeged Foundation for Cancer Research, Szeged, Hungary

Taichung Armed Forces General Hospital, Taichung, Taiwan, R.O.C.

Taichung Veterans General Hospital, Taichung, Taiwan, R.O.C. Taiho Pharmaceutical Co., Ltd., Tokyo, Japan

Taipei Municipal Wanfang Hospital, Taipei, Taiwan, R.O.C.

Taipei Tzu Chi Hospital, Buddhist Tzu Chi Medical

Foundation, Taipei, Taiwan, R.O.C.

Taipei Veterans General Hospital, Taipei, Taiwan, R.O.C.

Taiwan Ministry of Science and Technology

Takeda Foundation for Medical Science, Japan

Takeda Science Foundation, Japan

Taoyuan General Hospital, Ministry of Health and Welfare, Taipei, Taiwan, R.O.C.

Taussig Cancer Center Bridge Grant Program, Cleveland, OH, U.S.A.

Tella Inc., Tokyo, Japan

Thailand Research Fund, Bangkok, Thailand

Thailand Science Research and Innovation, Thailand Research Fund, Bangkok, Thailand

Thammasat University, Bangkok, Thailand

The Cancer Foundation of Northern Savo, Finland

The City University of New York, New York, NY, U.S.A.

The Elsa U. Pardee Foundation, Midland, MI, U.S.A.

The Finnish Cultural Foundation, Finland

The Second Century Fund (C2F), Thailand

Thomas Jefferson University, Philadelphia, PA, U.S.A.

Tissue Bank, China Medical University, Taichung, Taiwan, R O C

Tokai University School of Medicine Research Aid, Tokyo, Japan

Tokushima University Graduate School, Tokushima, Japan

Tokyo Association for Clinical Surgery, Tokyo, Japan

Tokyo Medical University, Tokyo, Japan

Tokyo Shinagawa Hospital, Tokyo, Japan

Tokyo University of Science, Tokyo, Japan

TPP Global Development, Edinburgh, U.K.

Translational Research Laboratory, Taiho Pharmaceutical Co., Ltd., Tokyo, Japan

Translational Research Program, Japan

Tsukuba Research Laboratories, Eisai Co., Ltd., Ibaraki, Japan

UC Davis Paul Calabresi Career Development Award for Clinical Oncology, National Cancer Institute/National Institutes of Health, Bethesda, MD, U.S.A.

Unidad de Investigación Médica en Enfermedades Oncológicas (UIMEO), Mexico City, Mexico

Unidad de Servicio de Apoyo a la Investigación y a la Industria (USAII), Faculty of Chemistry, National Autonomous University of Mexico (UNAM), Mexico City, Mexico

Unidade de Investigação em Epidemiologia (EPIUnit), Instituto de Saúde Pública da Universidade do Porto (ISPUP), Porto, Portugal

United States Patent and Trademark Office (USPTO), Alexandria, VA, U.S.A.

University Hospital Pilsen, Pilsen, Czech Republic

University Hospital Sharjah, Sharjah, United Arab Emirates

University of Adelaide, Adelaide, Australia University of Alabama at Birmingham (UAB) Flow Cytometry Core, Birmingham, AL, U.S.A.

University of Pecs, Pecs, Hungary

University of South Florida (USF) Research Computing, Tampa, FL, U.S.A.

University of the Witwatersrand, Johannesburg, South Africa

University of Tokyo, Tokyo, Japan University of Tokyo, Tokyo, Japan University of Tsukuba, Tsukuba, Japan

UNT Health Science Center (UNTHSC), Fort Worth, TX, U.S.A.

URC Grant, University Research Committee, University of the Witwatersrand, Johannesburg, South Africa

Veterans Administration Merit Awards, Washington, DC, U.S.A.

Vienna Business Agency, Vienna, Austria

Wake Forest University, Winston-Salem, NC, U.S.A. Walailak University, Nakhon Si Thammarat, Thailand

Western University of Health Sciences, Pomona, CA, U.S.A.

Wilhelm-Sander Foundation, Munich, Germany Wroclaw Centre of Biotechnology, Wroclaw, Poland Wroclaw Medical University, Wroclaw, Poland

Yamaga City Medical Center, Yamaga, Japan Yamaguchi Rosai Hospital, Sanyo-Onoda, Japan Yao Municipal Hospital, Osaka, Japan Yen Tjing Ling Medical Foundation, Taipei, Taiwan, R.O.C.

Yokohama Surgical Research Group, Yokohama, Japan

Yoshiki Dermatology Clinic Ginza, Tokyo, Japan

Zeincro Hellas, Athens, Greece

