

The 19th International Symposium on Pediatric Neuro-Oncology







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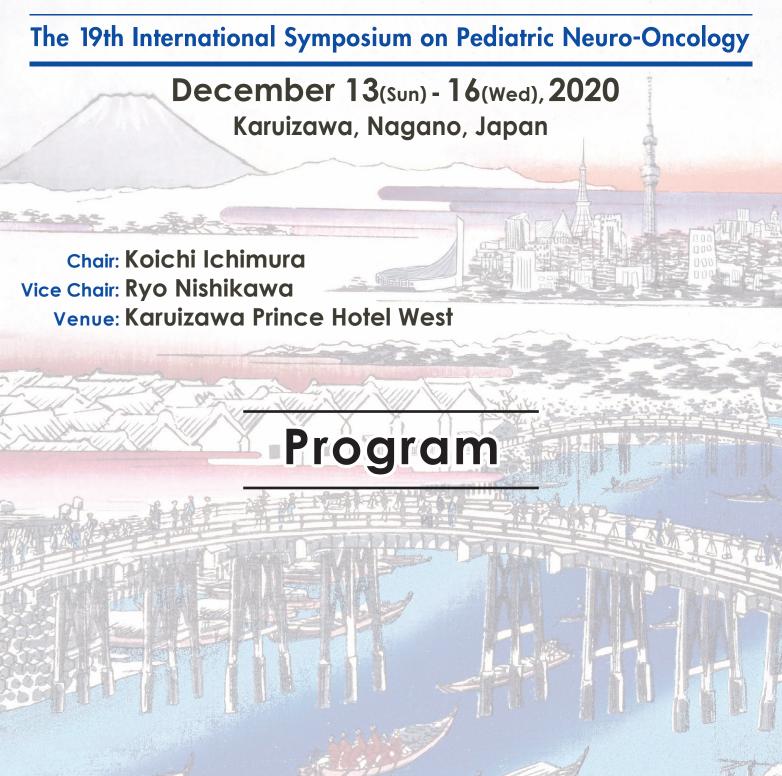
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## The 19th International Symposium on Pediatric Neuro-Oncology

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### **Welcome Message**

### Dear Friends and Colleagues,

It is our great pleasure to welcome you to The 19<sup>th</sup> International Symposium on Pediatric Neuro-Oncology (ISPNO 2020). We are tremendously honored to host ISPNO, 35 years after the very first ISPNO was held in Japan.

The COVID-19 pandemics have changed the world in 2020. It has profoundly affected our way of living and activities. Nonetheless, it will not stop our science. ISPNO 2020, originally planned in June, is now held in December at Karuizawa Prince Hotel West as a hybrid meeting. It is a great opportunity for everyone to join the symposium from home or workplace without having to travel!

We have a fantastic line-up of 82 invited lecturers who will give a live talk and Q&A in the Main Program, which will be live streamed. The live streaming contents will be posted in the On-Demand Program after the symposium. In the On-Demand Program, all 858 accepted abstracts and 12 Education Day lectures will be made viewable from December 13, 2020 until February 13, 2021 for all registrants. In addition, we have launched the ISPNO Award scheme to recognize the long-standing contribution of people who devoted their life for the development of pediatric neuro-oncology.

My special thanks to Joan Slaughter of the Morgan Adams Foundation who gave me invaluable advice on fundraising, and to Linda Greer of the Society for Neuro-Oncology whose devotion was truly inspirational. We thank all invited lecturers who agreed to give live online lectures despite the time difference and all Education Day lecturers and abstract authors who stuck with us upon the change of the format. We thank Prof. Kamibeppu and Dr. Sato for organizing the nursing session, Ms. Moue and Mr. Yamashita for organizing the Family Day, and all NPOs, industries, The Rotary Club and individual donors who made this incredible endeavor possible despite the unprecedented circumstances. Last but not least, we thank the members of staff who helped us throughout the preparation and the symposium.

Together, we will move pediatric neuro-oncology forward. Enjoy the Symposium!



Koichi Ichimura, M.D., Ph.D. Chair of ISPNO2020 Chief Division of Brain Tumor Translational Research National Cancer Center

Research Institute



By Wishikawa

Ryo Nishikawa, M.D., Ph.D. Vice Chair of ISPNO2020 Professor Department of Neuro-Oncology/ Neurosurgery Saitama Medical University International Medical Center

## ISPN® 2020 Committee

### ISPNO2020 Organizing Committee

#### Honorary Chairs

#### Kintomo Takakura †

Professor Emeritus, The University of Tokyo

† In Memory

#### Masao Matsutani

Professor Emeritus, Saitama Medical University Director, Gotanda Rehabilitation Hospital

#### Takamasa Kayama

Past-President, Japan Neurosurgical Society
President Emeritus, National Cancer Center Hospital
Professor, Faculty of Medicine, Yamagata University

### Hajime Arai

Executive President, Japan Neurological Society
Professor and Chairman, Department of Neurosurgery
Faculty of Medicine, Juntendo University

### ❖ Chair

### Koichi Ichimura

Chief, Division of Brain Tumor Translational Research National Cancer Center Research Institute

### ❖ Vice Chair

### Ryo Nishikawa

Professor, Department of Neuro-Oncology/Neurosurgery Saitama Medical University International Medical Center

#### Nursing Session Chair

#### Kiyoko Kamibeppu

Professor, Department of Family Nursing, Division of Health Sciences and Nursing,

Graduate School of Medicine, The University of Tokyo

### ❖ Secretary General

#### Keita Terashima

Head, Division of Neuro-Oncology, Children's Cancer Center

National Center for Child Health and Development

### ❖ Deputy Secretary General

#### Tomonari Suzuki

Associate Professor, Department of Neuro-Oncology/ Neurosurgery

Saitama Medical University International Medical Center

### International Organizing Committee

\*In alphabetical order, by last name

### ❖ Chair

Roger Packer (USA)

#### **∴** Members

Eric Bouffet (Canada)

Sidnei Epelman (Brazil)

Nick Foreman (USA)

Amar Gajjar (USA)

Richard Gilbertson (UK)

Stewart Goldman (USA)

Michael Handler (USA)

Annie Huang (Canada)

Rakesh Jalali (India)

Steward Kellie (Australia)

Mark Kieran (USA)

Chae-Yong Kim (Korea)

Masao Matsutani (Japan)

Ludmila Papusha (Russia)

Stephan Pfister (Germany)

Barry Pizer (∪K)

Stefan Rutkowski (Germany)

Chitra Sarkar (India)

Irene Slavc (Austria)

 $\textbf{Mark Souweidane} \; (\textbf{USA})$ 

Tai Tong Wong (Taipei)

# ISPN<sup>©</sup> 2020 Committee

### Local Organizing Committee

\*In alphabetical order, by last name

Yoshiki Arakawa	(Kyoto University)	Yozo Nakazawa	(Shinshu University)
Akio Asai	(Kansai Medical University)	Yoshitaka Narita	(National Cancer Center Hospital)
Hiroshi Fuji	(National Center for Child Health	Atsushi Natsume	(Nagoya University)
	and Development)	Sumihito Nobusawa	(Gunma University)
Yukihiko Fujii	(University of Niigata)	Hideki Ogiwara	(National Center for Child Health
Takamitsu Fujimaki	(Saitama Medical University Hospital)		and Development)
Akira Gomi	(Jichi Medical University)	Hiroaki Sakamoto	(Osaka City General Hospital)
Junichi Hara	(Osaka City General Hospital)	Hikaru Sasaki	(Keio University)
Naoya Hashimoto	(Kyoto Prefectural University of	Yuta Shibamoto	(Nagoya City University)
	Medicine)	Akira Shimada	(Okayama University Hospital)
Yuichi Hirose	(Fujita Health University)	Toshinori Soejima	(Hyogo Cancer Center)
Tomotsugu Ichikawa	(Kagawa Prefectural Central Hospital)	Yukihiko Sonoda	(Yamagata University Faculty of Medicine)
Yonehiro Kanemura	(National Hospital Organization	Kazuhiko Sugiyama	(Hiroshima University)
	Osaka National Hospital)	Takashi Taga	(Shiga University)
Atsushi Kawamura	(Hyogo Prefectural Kobe Children's Hospital)	Hideo Takeshima	(University of Miyazaki)
Katsuyoshi Koh	(Saitama Children's Medical Center)	Tetsuya Takimoto	(National Center for Child Health and Development)
Yoshiyuki Kosaka	(Hyogo Prefectural Kobe Children's Hospital)	Takashi Tamiya	(Kagawa University)
Toshihiro Kumabe	(Kitasato University)	Tomoki Todo	(The Institute of Medical Science, The University of Tokyo)
Katsuya Maebayashi	(Nippon Medical School)	Yoshiyuki Tsutsumi	(National Center for Child Health
Kazuhiko Mishima	(Saitama Medical University International Medical Center)	TOSHIYUKI TSULSUHII	and Development)
Nobuhito Morota	(Kitasato University School of	Tetsuya Ueba	(Kochi Medical School)
Nobulito Morota	Medicine)	Keisuke Ueki	(Dokkyo University)
Akitake Mukasa	(Kumamoto University)	Toshihiko Wakabayashi	(Nagoya University)
Yoshihiro Muragaki	(Tokyo Women's Medical University)	Yuko Watanabe	(National Cancer Center Hospital)
Motoo Nagane	(Kyorin University)	Tetsuya Yamamoto	(Yokohama City University Hospital)
Tatsuya Nagashima	(Hyogo Prefecture Hospital)	Takaaki Yanagisawa	(Jikei University School of Medicine)
Mitsutoshi Nakada	(Kanazawa University)	Koji Yoshimoto	(Kagoshima University)
Hideo Nakamura	(Kurume University)		

### Secretariat of ISPNO 2020

c/o Convex Inc.

Toranomon Waiko Bldg., 5-12-1 Toranomon, Minato-ku, Tokyo 105-0001 Japan

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# **ISPN® 2020** Conference Information

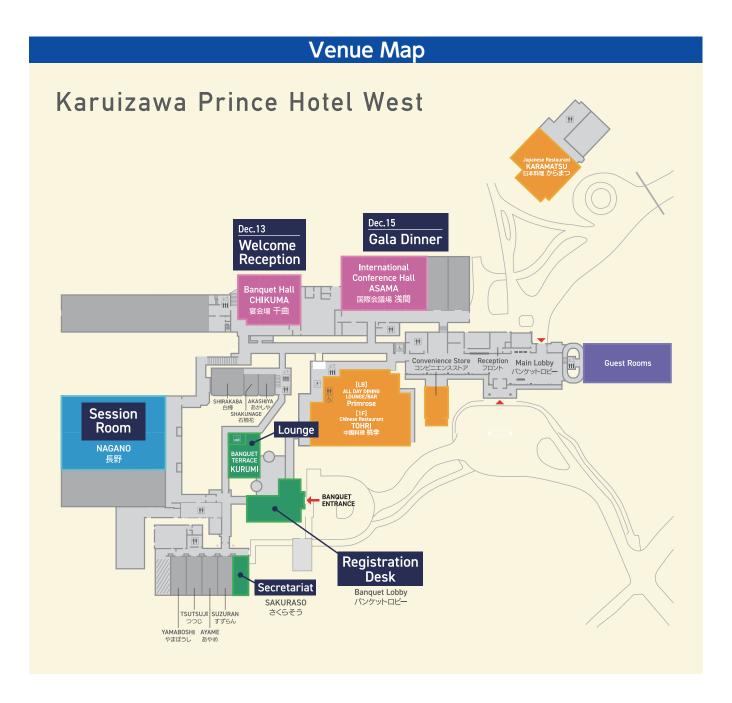
Date: December 13 (Sun) - 16 (Wed), 2020

Venue: Karuizawa Prince Hotel West

Karuizawa-machi, Kitasaku-gun, Nagano

389-0193 Japan

Tel: +81-267-42-1111



## **ISPN® 2020** Conference Information

### **Registration Desk**

The Registration Desk is located at the banquet lobby of Karuizawa Prince Hotel West and is open during the following hours:

 December 13 (Sunday)
 08:30-20:00

 December 14 (Monday)
 06:30-22:00

 December 15 (Tuesday)
 06:30-19:30

 December 16 (Wednesday)
 06:30-14:00

### Registration Fee (For On-site only)

Category	Price
Delegate 1	JPY 70,000
Delegate 2/Student/Trainee/Healthcare Partner	JPY 30,000
Accompanying Person (Spouse, Family Member) JPY 3,000	
Gala Dinner	JPY 15,000

<sup>\*</sup>For Gala Dinner, seating is limited and on a first-come, first-served basis.

### **Payment Method**

Payment must be made by credit card.

Accepted credit cards are VISA, MasterCard, Diners Club, AMEX, and JCB.











### Name Badges and Program Book

You are requested to come to the Registration Desk to pick up your conference kit within the above time frame. The name badge is mandatory for access to all sessions, social events and exhibitions during the conference.

### **Publication of Abstracts**

All abstracts accepted for Oral and Poster Presentations at ISPNO 2020 will be available online and accessible from our website. Scan the QR below to access E-Abstracts.

URL https://app.oxfordabstracts.com/events/1051/program-app/program



### **Internet Access**

Free WiFi is available in the Karuizawa Prince Hotel West at the following places:

- + Session Room
- + Lounge "KURUMI"
- + Lobby

### **Coffee Break**

Coffee and snacks will be served at the lounge "KURUMI". A drink counter with complimentary drinks will be set up. There are power sockets available for use. Refresh and recharge while you observe the live sessions.

### Lunch

Lunch boxes will be available at the Session Room during the following hours:

December 14 (Monday) 12:00-12:50
December 15 (Tuesday) 12:00-13:00
December 16 (Wednesday) 12:30-13:30

## **ISPN® 2020** Conference Information

### **Social Events**

-Welcome Reception

Date: Sunday, December 13

Time: 18:00-20:00

Place: Chikuma, Karuizawa Prince Hotel West

Fee: Included in the registration fee

-Gala Dinner

Date: Tuesday, December 15

Time: 19:30-21:30

Place: Asama, Karuizawa Prince Hotel West

Fee: JPY 15,000

\*Seating is limited and on a first-come, first-served basis.

### Safety and Security

Please do not leave valuable things unattended at any time, whether inside or outside session. We strongly recommend that you use your hotel safety deposit box for your valuables.

### Symposium Etiquette

- Participants are advised not to photograph or video and voice recording any sessions without the author's consent. Participants are also advised to obtain consent from authors before citing any of their work presented at the symposium.
- Switch your mobile phone to silent mode or turn it off completely during the sessions. Turn off the volume of other electronic devices such as, PC and DVD, and reduce screen brightness. We appreciate your cooperation.

### **Prevention Measures against COVID-19**

- 1. If you have a fever or COVID-like symptoms, refrain from attending the symposium.
- 2. Wear your facemask.
- 3. Hand sanitizers are placed around the symposium venue. Clean and disinfect your hands thoroughly.
- 4. Follow the rules and regulations of the facility.
- 5. Air ventilation is important in preventing the coronavirus from spreading indoors; due to this, there might be noises and we apologize for the inconvenience.

### Contact

Secretariat of ISPNO 2020

c/o Convex Inc.

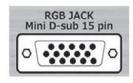
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E-mail: ispno2020@convex.co.jp

### Instructions for Presentation On-site

- 1. PC Preview Desk is located next to the Session Room.
- 2. Please bring your PC or presentation data (PPT) to the PC Preview Desk at least 30 minutes prior to your presentation to register and submit it to test the connection and view your file.
- 3. All presentations will be done on PC. Please use the following settings in PowerPoint for your presentation slides:
  - · 16:9 aspect ratio
  - · Refrain from using Presenter View
- 4. For Windows users, please bring your presentation data in the form of CD-R or USB Flash memory; or your own PC. For Macintosh users, please bring your own PC for your presentation.
- 5. PCs with Windows 10 and PowerPoint 2010, 2013 and 2016 are to be used.
- 6. If you are using your own PC, please confirm whether your PC has an RGB port (mini D-sub 15 pin type) or HDMI port to connect to the projector. If you use a different type of RGB jack to connect to an external monitor, please bring it with you. Please bring your PC charger and adapter in case the battery runs out during your presentation.







- 7. Please use the mouse on the podium for your presentation. You are required to handle your data yourself, using the mouse connected to the PC.
- 8. The copied data for your presentation will be deleted by the secretariat after the symposium.

### **Disclosure of Conflicts of Interest (COI)**

All presenters must declare their COI status on the first presentation slide (or immediately after the title and presenters) as shown in the example below:

e.g.1)

#### **ISPNO 2020**

### **COI Declaration**

Affiliation Name (all presenters)

The presenter has no conflict of interest with any corporate organizations relating to this presentation.

e.g.2)

### **ISPNO 2020**

### **COI Declaration**

Affiliation Name (all presenters)

The presenter has potential conflict of interest with the corporate organizations below:

Name of organizations

# ISPN® 2020 ISPNO 2020 Award Recipients

### Lifetime Achievement Award

### Roger J. Packer, MD

It is with great enthusiasm that the members of the ISPNO community have decide to offer this first Lifetime Achievement Award to Dr. Roger Packer.

Dr. Packer started his career in Philadelphia, in 1981. He very quickly became one of the leaders of this small community of oncology specialists interested in pediatric brain tumors. Over the years, he came to influence the management of most pediatric brain tumors, many of the protocols he developed being commonly referred to as the "Packer regimens". The description of Dr. Packer's multiple contributions to the field of pediatric neuro-oncology could span entire

chapters. He has been and still remains an active, passionate and dedicated member of the COG and several national or international networks, such as the Neurofibromatosis Consortium or the Pediatric Brain Tumor Consortium. He is a true leader and generates ideas that frequently translate into innovative protocols or national/international collaborations. As we all know, Dr. Packer's career is also strongly associated with the story of the ISPNO meeting and he has contributed to the development of an international paediatric neuro-oncology network.

Each and every member of the pediatric neuro-oncology community overwhelmingly shares the opinion that Dr Packer's unparalleled contribution to his field should be recognized at this time of his career and it is really a pleasure and a privilege to offer him this Award at the ISPNO Meeting 2020.

Presented by Eric Bouffet

### **Award Recipient Profile:**



Roger J. Packer, MD

Dr. Roger J. Packer is the Senior Vice President of the Center for Neuroscience and Behavioral Medicine and Director of the Brain Tumor Institute and the Gilbert Family Neurofibromatosis Institute at Children's National Hospital in Washington, DC. His career is focused on the care of children with brain tumors including the development of prospective clinical trials for children with medulloblastoma, other embryonal tumors, and with high and low-grade gliomas. He has and continues to lead efforts in multiple brain tumor and neurofibromatosis consortiums and the protocols Dr. Packer developed for medulloblastoma and low-grade glioma remain international standards. He has published well over 400 original article and 350 chapters and books. He was one of the founders of ISPNO, co-chairing the first meeting in the United States in Seattle in 1989, while also chairing ISPNO in Philadelphia (1990) and Washington, D.C. (1996).





# ISPN® 2020 ISPNO 2020 Award Recipients

## Lifetime Contribution to Asian Neuro-Oncology Community Award

### Tai-Tong Wong, MD

Dr. Tai-Tong Wong represents one of the most senior and well-respected pediatric brain tumor specialist and neurosurgeon in Taiwan and Asia. He completed his undergraduate medical degree in 1973 from the NDMC and then pursued neurosurgical training at Taipei VGH (1973-1978) followed by a pediatric neurosurgery fellowship at SickKids Hospital, Canada (1980). He returned to Taiwan where he helped drive innovative multi-disciplinary approaches and pediatric brain tumor research and trained the first generation of pediatric neuro-surgeons in Taiwan. Most recently (2015), he became the director of the pediatric brain tumor program of Taipei Cancer Center at TMUH/TMU where he maintains a very busy consult service and directs a brain tumor research laboratory. Recently, he led and became founding president of the Taiwan Pediatric Brain Tumor Consortium (TPBTC).

In addition to his home country, Dr Wong has also played a critical role in the development of pediatric neurosurgery and neuro-oncology in Asia through international training initiatives and leadership in multiple international organizations. In addition to founding presidencies of TSNO (2003-2005), TSPN (2008-2010), he has served as president of ASPN (2015-2017) and ISPN (2009-2010). He has been an active organizer of multiple local and several international congresses including the 4th Congress of ASNO (2005), the 34th ISPN annual meeting (2006), and 2nd Asian CNS GCT Conference (2016). The ISPNO 2020 Award for Lifetime contribution to Asian Neuro-Oncology Community recognizes the invaluable career-long commitment of Dr Wong to promoting pediatric neuro-surgery and Neuro-oncology in Asia.

Presented by Annie Huang

### **Award Recipient Profile:**



Tai-Tong Wong, MD

Pediatric Brain Tumor Program
and Pediatric Neurosurgery,
Department of Neurosurgery,
Taipei Medical University
Hospital

Dr. Tai-Tong Wong is currently staff and professor of pediatric neurosurgery and director of pediatric brain tumor program of Taipei Cancer Center at TMUH/TMU (since 2015). He graduated from NDMC (1973) and received neurosurgical and pediatric neurosurgical training in Taipei VGH (1973-1978) and HSC Toronto (clinical and research fellow, 1980), respectively. He dedicates for team treatment and research of pediatric brain tumors since then. He has been the first president of TSNO (2003-2005), TSPN (2008-2010), AASPN (2015-2017), TPBTC (2020-2023); president of ISPN (2009-2010); and pediatric neurosurgery committee chairman of WFNS (2010-2013). He had also hosted and organized international congresses including the 4th Congress of ASNO (2005), the 34th ISPN annual meeting (2006), and 2nd Asian CNS GCT Conference (2016).

Abbreviations: TMUH - Taipei Medical University Hospital; TMU - Taipei Medical University; NDMC - National Defense Medical Center; Taipei VGH - Taipei Veterans General Hospital; HSC Toronto - Hospital for Sick Children Toronto; TSNO - Taiwan Society for Neuro-Oncology; TSPN - Taiwan Society for Pediatric Neurosurgery; AASPN - Asian Australasian Society for Pediatric Neurosurgery; WFNS - World Federation of Neurological Society; ASNO - Asian Society for Neuro-Oncology; ISPN - International Society for Pediatric Neurosurgery; CNS GCT - Central Nervous System Germ cell Tumor.





# ISPN® 2020 ISPNO 2020 Award Recipients

### Pediatric Neuro-Oncology Community Service Award

### Angela Dickson, MBE Neil Dickson, MBE

Neil and Angela Dickson have made a significant contribution to neuro-oncology in the last 24 years. Inspired by the loss of their beautiful daughter Samantha, and recognising that there was not enough research into brain tumours, they worked tirelessly to ensure that high quality research was pursued across the UK, and around the world.

Among other achievements, they've funded work that led to the discovery of the medulloblastoma subtypes, and steadfastly supported Head Smart, the award winning campaign that decreased diagnosis time for UK children with a brain tumour and in 2012 were integral in the merger which formed The Brain Tumour Charity as a global funder of research in the field.

Presented by Barry Pizer

### **Award Recipient Profile:**



Angela Dickson, MBE Founder Trustee, The Brain Tumour Charity

Neil Dickson, MBE Founder and Vice chair of Trustee, The Brain Tumour Charity Neil and Angela founded the Samantha Dickson Brain Tumour Trust in 1996, since renamed The Brain Tumour Charity. It is one of the largest funders of brain tumour research in the World. Being passionate about International collaboration, they have been supporters of ISPNO, attended seven conferences and have been silver and gold sponsors. We are delighted to accept this Award from ISPNO in recognition of our contribution towards helping find a cure for brain tumours.





### **December 13 (Sunday)**

9:00 - 11:20	Nursing Session
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Moderator: Kiyoko Kamibeppu (Japan)

9:00 - 9:05 Introduction

NUR-IS-01 Kiyoko Kamibeppu (Japan)

9:10 - 9:50 Education Support for Pediatric Brain Tumor Patients

NUR-IS-02 Chie Matsuo (Japan)

9:50 - 10:00 Break

10:00 - 11:20 Cognitive Function and Education Support in each Country

Moderators: Pamela S. Hinds (USA), Iori Sato (Japan)

10:00 - 10:25 Child and family concerns related to cognitive function after treatment for pediatric brain tumor

NUR-IS-03 Naoko Takenouchi (Japan)

10:25-10:50 Supporting cognition and learning in pediatric brain tumor patients:

NUR-IS-04 The role of executive functioning surveillance and intervention

Kristi Hardy (USA)

10:50 - 11:00 Commentary

NUR-IS-05 Pamela S. Hinds (USA)

11:00 - 11:20 Discussion

NUR-D-06

### 11:20 - 12:15 Family Day Session

Sponsored by: American Family Life Assurance Co. of Columbus

11:20 - 12:00 Pediatric Brain Tumor Patient Advocates in Japan

FAM-IS-01 Yuko Moue (Japan)

12:00 - 12:15 Around the world in 15 minutes: innovative approaches to support, treatment and care

FAM-IS-02 of pediatric brain tumour patients

Kathy Oliver (UK)

### 18:00 - 20:00 Welcome Reception



### **December 14 (Monday)**

7:00 - 8:00	Symposium 1 NGS - where do we go from here?
	Sponsored by: American Brain Tumor Association
7.00 7.00	Moderator: Ryo Nishikawa (Japan)
7:00 - 7:20	Learning from non-coding mutations in cancer genomes
SYMP1-IS-01	Hiromichi Suzuki (Canada)
7:20 - 7:40	Developmental and oncogenic programs in pediatric ependymoma revealed by
SYMP1-IS-02	single-cell RNAseq
	Mariella G. Filbin (USA)
7:40 - 8:00	Context matters: Cell of origin dependencies in histone H3.3G34-mutant gliomas
SYMP1-IS-03	Claudia Kleinman (Canada)
8:00 - 8:30	Opening Ceremony
OPE-PE-01	Opening Performance
	Kan Fukuhara (Japanese flute), Soh Katada (Japanese percussion)
OPE-C-02	Opening Speech
	Koichi Ichimura (Japan)
8:30 - 8:40	Award Ceremony 1 Lifetime Achievement Award
	Sponsored by: The Childhood Brain Tumor Foundation
	Moderator: Koichi Ichimura (Japan)
	Presenter: Eric Bouffet (Canada)
OPE-A-04	Acceptance Speech
01 271 0 1	Roger Packer (USA)
8:40 - 9:10	Opening Keynote Lecture
	Sponsored by: The Childhood Brain Tumor Foundation
	Moderator: Koichi Ichimura (Japan)
OPE-IS-03	Pediatric neuro-oncology: perspectives of the new decade
	Roger Packer (USA)
9:10 - 10:00	Late-breaking Session Pediatric Neuro-Oncology and COVID-19
	Moderator : Takaaki Yanagisawa (Japan)
9:10 - 9:25	Characteristics of SARS-CoV-2 in 64 Children with CNS Tumors: A Report from the
COV-IS-01	SIOP/St. Jude Children's Research Hospital (SJCRH) Global COVID-19 Childhood
	Cancer Registry
	Eric Bouffet (Canada)
9:25 - 9:35	Vinblastine monotherapy induction for localised CNS germinoma during the COVID-19
COV-0-02	pandemic
001-0-02	Matthew Murray (UK)
0.25 0.45	
9:35 - 9:45	Impact of COVID-19 on therapy provision for children with CNS tumours
COV-0-03	Helen Hartley (UK)
9:45 - 10:00	Q&A
COV-QA-04	

10:00 - 10:30	Special Lecture 1
	Sponsored by: Nationwide Children's Hospital
SL1-IS-01	Moderator: KeitaTerashima (Japan) Genomics and Immunogenomics of Progression in Pediatric CNS Cancers Elaine Mardis (USA)
10:30 - 11:00	Special Lecture 2
SL2-IS-02	Sponsored by: Thermo Fisher Scientific  Moderator: KeitaTerashima (Japan)  Pediatric precision neuro-oncology: 2020 status report  Will Parsons (USA)
11:00 - 12:00	Sponsored Seminar 1
	Sponsored by: Chugai Pharmaceutical Co., Ltd.
SS-IS-LV-01	Moderator: KeitaTerashima (Japan)  Targeted Therapy for CNS Tumors (STARTRK Trial) (No On-Demand Program)  Amar Gajjar (USA)
12:00 - 12:50	Luncheon Seminar 1
	Sponsored by: Canon Medical Systems Corporation
12:00 - 12:40 LS-IS-02	Hands-on Experience Program for Pediatric Cancer Patients and Their Families:  Scan It! See through it! Seeing is exciting!  Akiko Higuchi (Japan)
12:40 - 12:50	Commentary
LS-C-03	Kathy Oliver (UK)
12:50 - 13:00	Break
13:00 - 13:10	Award Ceremony 2 Lifetime Contribution to Asian Neuro-Oncology Community Award  Sponsored by: The Childhood Brain Tumor Foundation
	Moderator: Koichi Ichimura (Japan)
	Presenter: Annie Huang (Canada)
OPE-A-05	Acceptance Speech
	Tai-Tong Wong (Taiwan)



13:10 - 15:00	Forum 1 Pediatric Neuro-Oncology in Asia and other Countries  Moderator: Ryo Nishikawa (Japan)
13:10 - 13:20	The global burden of childhood central nervous system (CNS) cancer
FRM1-IS-01	Jonathan Finlay (USA)
13:20 - 13:30	Pediatric Neuro-Oncology in China
FRM1-IS-02	Zhong-Ping Chen (China)
13:30 - 13:40	Clinical trial results and current treatment trends for medulloblastoma in Korea
FRM1-IS-03	Jung Woo Han (Korea)
13:40 - 13:50	TBA
FRM1-IS-04	Suradej Hongen (Thailand)
13:50 - 14:00	Paediatric Brain Tumors in a Tertiary Government Hospital in the Philippine Setting
FRM1-IS-05	Annabell Chua (Philippines)
14:00 - 14:10	Epidemiology, Treatment, and Outcomes of Medulloblastoma: The Indian Experience
FRM1-IS-06	Tejpal Gupta (India)
14:10 - 14:20	Diagnostic and treatment results of patients with brain tumors in D. Rogachev
FRM1-IS-07	National Medical Research Center
	Ludmila Papusha (Russia)
14:20 - 14:30	Free access for molecular diagnosis in medulloblastoma in Brazil and Latin America
FRM1-IS-08	- preliminary results
	Sidnei Epelman (Brazil)
14:30 - 14:40	Pediatric intracranial germ cell tumors and medulloblastoma; the Jordanian experience
FRM1-IS-09	Nisreen Amayiri (Jordan)
14:40 - 15:00	Panel Discussion and Wrap up
FRM1-QA-10	R. Nishikawa (Japan) /J. Finlay (USA) / G. Dhall (USA) / E. Bouffet (Canada) /
	U. Bartels (Canada)
15:00 - 15:30	Afternoon Seminar 1
13.00 - 13.00	Long-term Survivorship Challenges and Novel Mitigation Strategies in
	Childhood Brain Tumours
	Sponsored by: Apollo Hospitals Enterprise Limited
	Moderator: Ryo Nishikawa (Japan)
AFT1-IS-11	Preservation of cognition and neuro-psychological function after modern photon and
AI I I -10-1 I	proton beam irradiation for childhood CNS tumours
	Rakesh Jalali (India)
15:30 - 16:00	Break
16:00 - 16:20	Keynote 1 Palliative Care
	Moderator : Atsushi Manabe (Japan)
SOC-IS-01	Pediatric Palliative Care
	Nobuyuki Yotani (Japan)



16:20 - 17:00	Symposium 2 Preclinical Model for Pediatric Brain Tumors  Sponsored by: St. Baldrick's Foundation	
16:20 - 16:40 SYMP2-IS-04	Moderator: Daisuke Kawauchi (Japan)  Human pluripotent stem cell-derived brain tumor model uncovers the embryonic stem cell signature as a key driver in atypical teratoid/rhabdoid tumor	
16:40 - 17:00 SYMP2-IS-05	Yukinori Terada (Japan)  Future prospective in preclinical studies of pediatric brain tumors using mouse molecular genetic technologies  Daisuke Kawauchi (Japan)	
17:00 - 17:10	Award Ceremony 3 Pediatric Neuro-Oncology Community Service Award  Sponsored by: The Childhood Brain Tumor Foundation	
OPE-A-06	Moderator: Koichi Ichimura (Japan) Presenter: Barry Pizer (UK) Acceptance Speech Angela & Neil Dickson (UK)	
17:10 - 17:40	Special Lecture 3	
	Sponsored by: The Tokyo Biochemical Research Foundation	
SL3-IS-03	Moderator: Koichi Ichimura (Japan) Will we ever cure cancer? Richard Gilbertson (UK)	
17:40 - 18:00	Symposium 3 Precision Medicine	
SYMP3-IS-08	Moderator: Katsuyoshi Koh (Japan) PRECISION MEDICINE: the challenges beyond the discovery Jacques Grill (France)	
18:00 - 18:25	Keynote 2 Low Grade Glioma (basic)  Sponsored by: The PLGA Fund at the Pediatric Brain Tumor Foundation	
LGGB-IS-01	Moderator: Katsuyoshi Koh (Japan) Pediatric low-grade glioma: State-of-the-art in 2020 David Jones (Germany)	
18:25 - 18:50	Keynote 3 HGG (basic)  Moderator: Katsuyoshi Koh (Japan)	
HGGB-IS-01	The diversity of what we call a 'high grade glioma' in children and young adults Chris Jones (UK)	
18:50 - 19:15	Keynote 4 Ependymoma (basic)  Sponsored by: Collaborative Ependymoma Research Network Foundation	
EPEB-IS-01	Moderator: Katsuyoshi Koh (Japan) Ependymoma, an increasingly less enigmatic disease Kristian Pajtler (Germany)	

19:15 - 19:40 ATRB-IS-01	Keynote 5 AT/RT  Moderator: Katsuyoshi Koh (Japan)  ATRT - update on biology, subgroups, targets, and potential clinical implications  Marcel Kool (Germany)
19:40 - 21:30	Dinner Break
21:30 - 22:00	Special Lecture 4  Moderator : Daisuke Kawauchi (Japan)
SL4-IS-04	PFA ependymoma – a metabolic monster Michael Taylor (Canada)
22:00 - 23:30	Forum 2 Preserving and Enhancing QoL and Function  Moderator: Shota Tanaka (Japan)
22:00 - 22:20	Early global neurologic rehabilitation in pediatric patients with brain tumors
FRM2-IS-01	Andrés Morales La Madrid (Spain)
22:20 - 22:40	Practical tools for enhancing functional outcomes in neuro-oncology
FRM2-IS-02	Nathan Rosenberg (USA)
22:40 - 23:00	Radiotherapy Methods to Preserve Quality of Life and Organ Function in Pediatric
FRM2-IS-03	Cancer Patients
	Joshua Palmer (USA)
23:00 - 23:20	Palliative Care approach to optimize function and quality of life on patients with brain tumor
FRM2-IS-04	Paola Genovese (USA)
23:20 - 23:30	Q&A
FRM2-QA-05	Moderators: Nathan Rosenberg (USA), Shota Tanaka (Japan)

### December 15 (Tuesday)

7:00 - 7:25 Keynote 6 ETMR and other Embryonal Tumors **Moderator**: Ryo Nishikawa (Japan) ETMB-IS-01 Understanding the clinical and biological landscape of ETMRs Annie Huang (Canada) 7:25 - 7:50 Keynote 7 Craniopharyngioma **Moderator**: Ryo Nishikawa (Japan) CNSC-0-03 Treatment Challenges of Adamantinomatous Craniopharyngioma Ute Bartels (Canada) 7:50 - 8:15 Special Lecture 5 **Moderator**: Ryo Nishikawa (Japan) SL5-IS-05 Replication repair deficiency and hypermutation in childhood brain tumors: Insights on germline and somatic mutagenesis Uri Tabori (Canada) 8:15 - 8:40 Keynote 8 Low Grade Glioma (clinical) Sponsored by: The PLGA Fund at the Pediatric Brain Tumor Foundation **Moderator:** Takaaki Yanagisawa (Japan) LGGC-IS-01 Paediatric Low Grade Gliomas: clinical management Eric Bouffet (Canada) Keynote 9 DIPG 8:40 - 9:05 **Moderator**: Ryo Nishikawa (Japan) DIPB-IS-01 Molecular pathways and therapeutic opportunities in DIPG Nada Jabado (Canada) 9:05 - 9:30 Keynote 10 HGG (clinical) Sponsored by: The Morgan Adams Foundation **Moderator**: Ryo Nishikawa (Japan) HGGC-IS-01 Translating the advancing biology of CNS high-grade gliomas into actual patient benefit Mark Kieran (USA) 9:30 - 9:55 Late-breaking Lecture Ependymoma ACNS0831 Clinical Trial Sponsored by: The Robert Connor Dawes Foundation

ACNS0831, Phase III Randomized Trial of Post-Radiation Chemotherapy in

Patients with Newly Diagnosed Ependymoma Ages 1 to 21 years

**Moderator**: Ryo Nishikawa (Japan)

Amy Smith (USA)

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EPEC-0-02



9:55 - 10:20 Keynote 11 Ependymoma (clinical)

Sponsored by: The Robert Connor Dawes Foundation

Moderator: Ryo Nishikawa (Japan)

EPEC-IS-01 Posterior Fossa Ependymoma (PF EPN): Reaching for Effective Therapy

while exploring new Biology Nicholas Foreman (USA)

10:20 - 10:45 Keynote 12

Pathology and Molecular Classification (WHO Classification and cIMPACT-NOW)

Sponsored by Illumina K.K.

Moderator: Takashi Komori (Japan)

PAT-IS-01 Histopathology and molecular pathology in the diagnosis of pediatric CNS

tumors - WHO Classification, Edition 5

David Ellison (USA)

10:45 - 11:10 Keynote 13 Epidemiology

Moderator: Yukihiko Sonoda (Japan)

EPI-IS-01 Know the facts! An update on causes and risk factors for childhood brain tumors

Jill Barnholtz-Sloan (USA)

11:10 - 11:50 Special Lecture 6

Sponsored by: THERABIOPHARMA Inc.

**Moderator**: Yukihiko Sonoda (Japan)

FIB-IS-01 Neurofibromatosis type 1

Murali Chintagumpala (USA)

11:50 - 12:00 Break

12:00 - 13:00 Luncheon Seminar 2

Sponsored by: ONO PHARMACEUTICAL CO., LTD.

**Moderator**: Ryo Nishikawa (Japan)

LS-IS-LV-01 Molecular pathogenesis and treatment of primary central nervous system lymphoma:

Evidence and perspectives (No On-Demand Program)

Motoo Nagane (Japan)



13:00 - 14:20	CNS Germ Cell Tumors Session
	Sponsored by: The Japan Pediatric Brain Tumor Research Fund
13:00 - 13:30	Moderator: Hirokazu Takami (Japan) Special Lecture 7
CNSB-IS-01	(basic) Mechanism and In Vitro Reconstitution of Mammalian Germ-Cell Development Mitinori Saitou (Japan)
13:30 - 13:55 <i>CNSC-IS-01</i>	Keynote 14 (clinical) Treatment of CNS germ cell tumors, from the past to the future
	Masao Matsutani (Japan)
13:55 - 14:20	Keynote 15
CNSC-IS-02	(clinical) Korean studies in intracranial germ cell tumors Chang-Ok Suh (Korea)
14:20 - 14:50	Special Lecture 8
CI 0 IC 06	Moderator: Hirokazu Takami (Japan)  Deciphering the origin of cometic mutations in broin tumore
SL8-IS-06	Deciphering the origin of somatic mutations in brain tumors  Jeong Ho Lee (Korea)
14:50 - 15:20	Special Lecture 9
	Moderator : Kojchi Ichimura (Janan)
SL9-IS-07	Moderator: Koichi Ichimura (Japan)  Japanese platform for cancer genomic medicine; a new hope for children  Hiroyuki Mano (Japan)
SL9-IS-07 <b>15:20 - 15:50</b>	Japanese platform for cancer genomic medicine; a new hope for children Hiroyuki Mano (Japan)  Afternoon Seminar 2 Nanopore Sequencing
	Japanese platform for cancer genomic medicine; a new hope for children Hiroyuki Mano (Japan)
15:20 - 15:50	Japanese platform for cancer genomic medicine; a new hope for children Hiroyuki Mano (Japan)  Afternoon Seminar 2 Nanopore Sequencing  Moderator: Koichi Ichimura (Japan)  Characterization of complicated structural variants with local copy-number changes in cancer genomes using PromethION
<b>15:20 - 15:50</b> SS-/S-01	Japanese platform for cancer genomic medicine; a new hope for children Hiroyuki Mano (Japan)  Afternoon Seminar 2 Nanopore Sequencing  Moderator: Koichi Ichimura (Japan)  Characterization of complicated structural variants with local copy-number changes in cancer genomes using PromethION  Yutaka Suzuki (Japan)
<b>15:20 - 15:50</b> SS-/S-01	Japanese platform for cancer genomic medicine; a new hope for children Hiroyuki Mano (Japan)  Afternoon Seminar 2 Nanopore Sequencing  Moderator: Koichi Ichimura (Japan)  Characterization of complicated structural variants with local copy-number changes in cancer genomes using PromethION  Yutaka Suzuki (Japan)  Meet-the-Experts

16:20 - 17:10	Neurosurgery Session  Moderator: Yukihiko Sonoda (Japan)
16:20 - 16:45	Keynote 16
NEU-IS-01	Overcoming the limitation of current treatment for malignant pediatric brain tumors: updating neurosurgical points of views
	Chae-Yong Kim (Korea)
16:45 - 17:10	Keynote 17
NEU-IS-02	Surgical challenges and solutions for improving surgical outcome in Ependymoma Surgery
	Conor Mallucci (UK)
17:10 - 17:40	Special Lecture 10
	Sponsored by: Bristol Myers Squibb
	Moderator: Ryo Nishikawa (Japan)
SL10-IS-08	Hereditary predisposition to childhood cancer
	Stefan Pfister (Germany)
17:40 - 19:20	Forum 3 Posterior Fossa Syndrome
	Moderators: Barry Pizer (UK), Ryo Nishikawa (Japan)
17:40 - 18:00	Symposium on cerebellar mutism syndrome
FRM3-IS-01	Barry Pizer (UK)
18:00 - 18:20	Radiology of Cerebellar Mutism Syndrome
FRM3-IS-02	Shivaram Avula (UK)
18:20 - 18:40	Surgical aspects to minimise cerebellar mutism syndrome
FRM3-IS-03	- have we made any progress?
	Conor Mallucci (UK)
18:40 - 18:50	"The Nordic-European study of the cerebellar mutism syndrome"
FRM3-IS-04	- Establishing the Study
	Astrid Sehested (Denmark)
18:50 - 19:00	Cerebellar Mutism Syndrome and the surgical risk factors: a prospective multicentre
FRM3-0-05	study of 500 patients undergoing tumour surgery in the posterior fossa
	Jonathan Kjær Grønbæk (Denmark)
19:00 - 19:10	Future Directions for Research in Cerebellar Mutism Syndrome
FRM3-IS-06	Astrid Sehested (Denmark)
19:10 - 19:20	Panel discussion/Q&A
FRM3-QA-07	
19:30 - 21:30	Gala Dinner

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## December 16 (Wednesday)

7:00 - 7:20	Symposium 2 Preclinical Model for Pediatric Brain Tumors
	Sponsored by: St. Baldrick's Foundation
SYMP2-IS-06	Moderator: Daisuke Kawauchi (Japan) Recapitulating developmental context using genetically engineered and patient-derived models of pediatric diffuse high-grade gliomas Suzanne Baker (USA)
<b>7:20 - 7:40</b> SYMP3-IS-07	Symposium 3 Precision Medicine  Moderator: Keita Terashima (Japan)  Precision Medicine in Pediatric Neuro-Oncology  Sabine Mueller (USA)
7:40 - 8:00	Keynote 18 Preclinical models/Experimental Therapy/Drug Discovery
MOD-IS-01	Sponsored by: Children's Brain Tumor Network  Moderator: Keita Terashima (Japan)  In Silico Drug Screening and System Biology Approach in Drug Repurposing  Ching Lau (USA)
8:00 - 8:20	Keynote 19 Pediatric Neuropsychology  Moderator: Keita Terashima (Japan)
PED-IS-01	Biological Substrates of Impaired Neurocognitive Functioning: Understanding the Late Effects of Surviving a Pediatric Brain Tumor Stephen Sands (USA)
8:20 - 9:30	Forum 4 Immunotherapy
8:20 - 8:40 IMM-IS-01	Moderator: Naoya Hashimoto (Japan)  Advances in cellular immunotherapy targeting pediatric brain tumors  Duane Mitchell (USA)
8:40 - 9:00 IMM-IS-02	Today's immunotherapy for pediatric CNS tumors: briefly defining the Gordian Knot Eugene Hwang (USA)
9:00 - 9:20 IMM-IS-03	Nivolumab monotherapy and nivolumab in combination with ipilimumab in pediatric patients with high-grade primary central nervous system malignancies: safety and Pharmacokinetic results from CheckMate 908  Ira Dunkel (USA)
9:20 - 9:30 IMM-QA-04	Panel discussion/Q&A



9:30 - 10:20	Medulloblastoma Session
	Sponsored by: KiTZ Foundation  Moderator: Daisuke Kawauchi (Japan)
9:30 - 9:55 <i>MEDB-IS-01</i>	Keynote 20 (basic) Medulloblastomics 2020: biological and clinical insights from 1,000s of patients Paul Northcott (USA)
9:55 - 10:20 <i>MEDC-IS-01</i>	Keynote 21 (clinical) Medulloblastoma - Biology informs Clinical Outcome Amar Gajjar (USA)
10:20 - 10:40	Keynote 22 Drug Delivery  Moderator: Daisuke Kawauchi (Japan)
DRU-IS-01	Convection enhanced delivery (CED) in the brain stem of children with diffuse intrinsic pontine glioma (DIPG): beyond feasibility  Mark Souweidane (USA)
10:40 - 11:05	Special Lecture 11  Moderator: Tomoki Todo (Japan)  Sponsored by: Preston Robert Tisch Brain Tumor Foundation
SL11-IS-09	Brain immunology and immunotherapy in brain tumors.  David Ashley (USA)
11:05 - 11:30	Keynote 23 Viral/gene Therapy
	Sponsored by: Denka Company Limited  Moderator: Tomoki Todo (Japan)
VIR-IS-LV-01	Results of phase II clinical trial of oncolytic herpes virus G47 $\Delta$ in adult patients with Glioblastoma (No On-Demand Program) Tomoki Todo (Japan)
11:30 - 11:50	Keynote 24 Radiation Oncology
RAD-IS-01	Sponsored by: FUJIFILM Corporation  Moderator: Hiroshi Fuji (Japan)  Radiation Oncology in Pediatric Neuro-oncology  Thomas Merchant (USA)
11:50 - 12:30	Keynote 25 Imaging
IMA-IS-01	Sponsored by: FUJIFILM Medical Solutions Co., Ltd  Moderator: Hiroshi Fuji (Japan)  pH-weighted molecular imaging of brain tumors  Benjamin Ellingson (USA)

12:30 - 13:30 Luncheon Seminar 3 Epilepsy

Sponsored by: Eisai Co., Ltd

Moderator: Ryo Nishikawa (Japan)

*LS-IS-LV-02* Tumor-related epilepsy and long-term epilepsy associated tumors in children:

epilepsy surgeons' perspective (No On-Demand Program)

Kensuke Kawai (Japan)

13:30 - 13:50 Closing Ceremony

CC-01 Closing remarks

ISPNO2020 Award Koichi Ichimura (Japan)

13:50 - 14:00 Handover

CC-02 Introduction to ISPNO2022 in Hamburg

Stefan Rutkowski (Germany) Stefan Pfister (Germany)

14:00 - 14:10 Adjourn

# **ISPN® 2020** On-demand Program

On-demand Program at ISPNO 2020 will be available online and accessible from the URL and QR code below. The Main Program will be added and viewable after the meeting in January 2021.

Viewing Period: December 13 (Sun), 2020 - February 13 (Sat), 2021

URL: https://web-mice.jp/ispno2020/en/member/Login











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Funding Kids' Cancer Research

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### THE Morgan Adams FOUNDATION

### The Morgan Adams Foundation

The Morgan Adams Foundation has funded pediatric cancer research since 1998, giving kids with cancer

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### **Apollo Proton Cancer Centre**

The Most Advanced Cancer Centre- First Proton Centre in South Asia & The Middle East

The Apollo Proton Cancer Centre (APCC) is a 150-bed integrated cancer hospital offers state-of-the-art comprehensive cancer care. It is South Asia & the Middle East's first Proton Therapy and a major milestone in India's concerted focus to battle and conquer cancer.

Powered by a cutting-edge multi room Proton Centre. Apollo Proton Cancer Centre is revolutionizing radiation oncology not just in India, but across the region. The hospital is a beacon of hope for over 3.5 billion people.

The advanced Proton Therapy at Apollo Proton Cancer Centre is complemented by a fully integrated treatment suite that offers the most advanced treatment procedures in surgical, radiation, medical oncology. True to the Apollo Pillars of Expertise and Excellence, the Centre brings together a powerful medical team helmed by some of the influential names in cancer care.

At the bedrock of APCC's approach to treat cancer is its robust multi-disciplinary platform; highly skilled professionals - united by expertise and commitment - come together to form Cancer Management Teams (CMT). Each CMT is focused on delivering the best possible outcomes to their patients.



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AbbVie is a research-driven global biopharmaceutical company headquartered in the United States.

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In Japan, more than 1,200 employees work at AbbVie. Putting patients at the center of what we do, we collaborate with stakeholders to address the challenges facing healthcare today and tomorrow. We market our products in focus therapeutic areas such as Immunology, Neonatology, Hepatitis, Neuroscience and Oncology.



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### Children's Hospital Colorado

Registration fee (Category: Delegate 2) for clinicians, researchers and industry members who are from the low/lower-middle income countries assigned by the World Bank Group are partially supported by the donations from Children's Hospital of Colorado.



### The Robert Connor Dawes Foundation

The Robert Connor Dawes Foundation works closely with organisations and researchers around the world to fast-track research funding and ultimately, improve treatment ontions

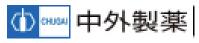
We believe more brains are better than one, and we're proud to fund crucial research collaborations including, The AIM BRAIN Project, in partnership with ANZCHOG and DKFZ in Germany, and a CERN Fellowship currently underway in Cambridge.

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For more than 20 years, Illumina has aspired to improve human health by unlocking the power of the genome. Our initial products enabled researchers to explore DNA in an entirely new way. Now, with more than 3400 patents worldwide and our sequencing-by-synthesis technology being used to generate over 90% of the world's sequencing data, we are leading the way, one genomic breakthrough at a time.

While the rate of progress continues to accelerate exponentially as we move towards precision medicine, we have only just begun to discover the true impact of genomics in areas we touch, including oncology, reproductive health, genetic disease, agriculture, microbiology, and beyond. Now, through innovation and collaboration, we are enabling genomic breakthroughs in immunotherapy, biomarker discovery, and therapy selection. The opportunity to transform tumor profiling with innovative assays that enable comprehensive genomic profiling, new companion diagnostic development, and liquid biopsy inspires us to push boundaries and drive innovation.

For more information please send us an email at contactJPN@illumina.com



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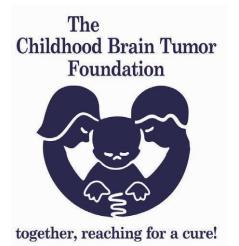
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### The Pediatric Brain Tumor Foundation

The Pediatric Brain Tumor Foundation is one of the world's leading nonprofit organizations dedicated to children and teens with brain tumors. Our mission is simple: Care. Cure. Thrive. We are committed to caring for families along their journey, funding and finding cures for all childhood brain tumors, and helping survivors and their families thrive. Our research investment strategy

is guided by our mission to maximize the number of lifechanging therapies moving from development through to commercialization to find targeted treatments for all children battling brain cancer. Since 1991, we have funded more than \$46 million in scientific discovery through our Early Career Development awards, basic and translational science projects, clinical trial research and childhood cancer core infrastructure/education opportunities. Together, we are helping move the needle to find more effective treatments and a cure for all kids battling brain cancer. In addition, PBTF has connected thousands of families each year with patient and family education, financial relief, and a thriving community of support. A world without childhood brain tumors is possible when we stand together to effect real, meaningful change. We welcome all to support our mission to Care. Cure. Thrive. at www.curethekids.org.



The Childhood Brain Tumor Foundation

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## KiTZ (the Hopp Children's Cancer Center at the NCT Heidelberg)

The Hopp Children's Cancer Center Heidelberg (short: KiTZ) is at the same time a therapy and research center for oncological and

haematological diseases in childhood and adolescence. More than 200 doctors, scientists and experts from all medical fields are working together to scientifically elucidate the biology of childhood cancer and severe blood diseases and to closely link promising research approaches with patient care - from diagnosis to

treatment and aftercare. Children suffering from cancer, especially those for whom no established treatment options are available, are given an individual therapy plan at the KiTZ. Additionally, we have established so-called diagnostic platforms that allow for accurate diagnosis and treatment decisions, both in initial diagnosis and relapses (INFORM, MNP-IntR or PTT2.0). Many young patients are able to take part in clinical trials and thus gain access to new treatment options. The KiTZ thus assumes a model function in the transfer of research findings from the laboratory to the clinic.

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#### THERABIOPHARMA Inc.

THERABIOPHARMA Inc. has been established as a biotechnology venture company under the

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Curcumin, active form of TBP1901, showed the inhibition of proliferation for glioblastoma cell lines, and TBP1901 clearly demonstrated significant improvement of survival

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The mechanism of action of TBP1901 is thought that it suppresses NF-  $\kappa$ B activity through the inhibition of proteasome, IKK, TAK1. Injectable TBP1901 achieved 10,000 times higher free-form curcumin in blood stream than oral intake. This is the first observation to attain the concentration that reaches to show the antitumor activity in vitro and in vivo particularly for the Glioblastoma. In addition, 14-day repeated dose toxicity study has been conducted in rats and cynomolgus monkeys and a sufficient margin of dose was found between the pharmacological effect and the safety. TBP1901 is thought to expect to be developed and clinically applied as a glioblastoma-specific prodrug.

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### FUJIFILM Medical Solutions Co., Ltd.

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## The Uehara Memorial Foundation (上原記念生命科学財団)

The Uehara Memorial Foundation was established in February

1985 to commemorate the 70<sup>th</sup> anniversary of the founding of Taisho Pharmaceutical Co., Ltd. and in memory of Shokichi Uehara, former President and Chairman of Taisho Pharmaceutical, who passed away

in March 1983. Since the fiscal year of 1985, the Foundation's income from basic assets has been mainly utilized in providing grants for researchers, who are engaging in life sciences, as well as for the recognition of outstanding achievements in life science research (Uehara Award) and hosting of international symposia.

# ISPN® 2020 Sponsors



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In addition to influenza vaccine, diagnostic reagents, and macromolecular sodium hyaluronate preparations, the Life Innovation Division is working to expand this business field by providing products and services that promote the health of people around the world.



### St. Baldrick's Foundation

The St. Baldrick's Foundation is a volunteer and donor powered charity committed to supporting the most

promising research to find cures for childhood cancers and give survivors long and healthy lives. Grants are made for pediatric oncology research in many categories: email Grants@StBaldricks.org for more information.



### Nationwide Children's Hospital

Lead by pediatric neurooncologist Dr. Maryam Fouladi and pediatric neurosurgeon

Dr. Jeffery Leonard, the Neuro-Oncology Program is engaged through leadership and clinical trials in every major national neuro-oncology consortium including CONNECT, NEXT, PBTC, PNOC, and COG.

The Neuro-Oncology team provides international collaboration and support to peers in Central and South America through the Global Outreach Program, the first of its kind in pediatric-oncology. Through the Head Start 4 protocol, Nationwide Children's leads over 50 sites from around the world to improve the quality of survival

and cure rates for young children with primitive neuroectodermal tumors. And we continue to treat patient families from around the globe including Canada, Poland, Saudi Arabia, South Africa, China, and throughout the United States.

Named to the Top 10 Honor Roll on U.S. News & World Report's 2020-21 list of "Best Children's Hospitals," Nationwide Children's Hospital is one of America's largest not-for-profit freestanding pediatric health care systems providing wellness, preventive, diagnostic, treatment and rehabilitative care for infants, children and adolescents, as well as adult patients with congenital disease.



### **Children's Brain Tumor Network**

The Children's Brain Tumor Network's (CBTN) highlycommitted community

of expert researchers, clinicians, patient families, and support staff are dedicated to creating a world where no child dies or suffers from a brain tumor. The CBTN includes more than 20 member institutions located in Europe, Asia, Australia, and throughout the United States.

Discovering a cure for childhood brain cancer is a huge challenge; one that needs the dedication, brain power, and partnership of a global community to solve. The CBTN is leading the charge to share resources, discoveries, and expertise as broadly and as swiftly as possible, to researchers anywhere on earth. Highly-annotated samples of tissue and data are available at no cost to researchers to empower scientific discovery and collaboration across the scientific community. The CBTN's collaborative mission is redefining the traditional research model by accelerating the pace of discovery for all diagnosed children. To learn more, visit cbtn.org.



### **American Brain Tumor Association**

Founded in 1973, the American Brain Tumor Association (ABTA) was the first national nonprofit organization dedicated solely to brain tumor research.

The ABTA has since expanded its mission and now provides comprehensive resources to support the complex needs of brain tumor patients and caregivers, across all ages and tumor types, as well as the critical funding of research in the pursuit of breakthroughs in brain tumor diagnoses, treatments and care.

# ISPN<sup>®</sup> 2020 Sponsors



#### DAIICHI SANKYO COMPANY, LIMITED



#### The Preston Robert Tisch Brain Tumor Center

Established in 1937, The Preston Robert Tisch Brain Tumor Center was one of the first brain tumor research and

clinical programs in the United States. Since then, it has advanced to become one of the best pediatric and adult neuro-oncology programs in the world—leading the way in comprehensive care that combines research breakthroughs, clinical trials and the newest therapies. The National Cancer Institute (NCI) has given our center the highest rating of "outstanding" for each of the last 15 years.

Our patients are the reason we strive to deliver hope every day. They come here for the most advanced treatments. Often these are therapies that are not available anywhere else. Our center sees up to 900 new adult brain tumor patients and up to 75 new pediatric brain tumor patients per year from across the country and around the world. At the core of our success lies the commitment of countless physicians, nurses, researchers and staff – all with the goal to stand with our patients and families in the fight against brain tumors. We offer aggressive research and passionate care with a determination and clear focus to fight the disease.



#### **S & Brain Corporation**

Established in 2008, head office is located in Urayasu city in Chiba prefecture, Japan.

Business: Development of domestic instrument, mainly

for Neuro Surgery

Main Product: Titanium Plate Brand: SP Plate (sterile)



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Virtual Exhibit booths are now available for you to learn more about our research portfolio. Please visit our Virtual Exhibition.



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### NanoString Technologies, Inc.

NanoString Technologies (NASDAQ: NSTG) is a publicly held provider of life

science tools for translational research. The company's technology enables a wide variety of basic research and translational medicine applications.

NanoString's products are based on a novel digital molecular barcoding technology invented at the Institute for Systems Biology (ISB) in Seattle under direction of Dr. Leroy Hood. The company was founded in 2003 with an exclusive license to develop and market the technology. In 2008, NanoString launched its first commercial instrument system and began international

sales operations with its first multiplexed assays for gene expression analysis. In 2010, the company launched new applications for the system to support microRNA analysis and copy number variation detection. In 2019, the company launched the GeoMx™ Digital Spatial Profiler enabling highly-multiplexed spatial profiling of RNA and protein targets in a variety of sample types, including FFPE tissue sections.

AS ONE is NanoString's distributor in Japan, and today, in addition to exhibiting NanoString products, we are exhibiting 2D barcode tubes for sample management and related products.

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#### Collaborative Ependymoma Research Network Foundation

The Collaborative Ependymoma Research Network (CERN)

Foundation, a designated program of the National Brain Tumor Society, is dedicated to improving the lives of children and adults worldwide diagnosed with ependymoma. The CERN Foundation continues to

advance ependymoma research by supporting scientific fellowships, clinical trials, and sponsoring professional conferences and symposia. We strive to bring awareness to the rare disease and improve the outcome and care of patients through education, referral support, and supported research efforts.



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#### 東京南ロータリークラブ The Rotary Club of Tokyo-South

Rotary Club of Tokyo South, which has a history of over 60 years, was established

in 1950 after became independent from Rotary Club of Tokyo. Tokujiro Kanamori, who was deeply involved in the establishment of current Japanese constitution, assumed the Club as a First chairman. Since then, we have been inheriting his idea of liberal as a tradition of

our Club.

Presently, there are over 200 members in our club.

Registration fee (Category: Delegate 2) for clinicians, researchers and industry members who are from the low/lower-middle income countries assigned by the World Bank Group are partially supported by the donations from The Rotary Club of Tokyo South Fellowship.



#### 東京シティ日本橋ロータリークラブ The Rotary Club of Tokyo City Nihonbashi

Our club was born in 1991

from the Rotary Club of Nihonbashi East,  $68^{th}$  club in the 2750 District and  $1949^{th}$  club in Japan.

And involved in the Ginza-Nihonbashi Group of the 2750

District.

Our regular meeting is held on Friday 12:30a.m. at the Royal Park Hotel (2-1-1 Kakigara-chou Chuou-ward Tokyo Met.)

# ISPN® 2020 Sponsors



# the Tokyo Biochemical Research Foundation (公益財団法人東京生化学研究会)

We are engaged in the following activities to support innovative research on pharmaceutical products.

- Research grants and incentives
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- Invitation of overseas researchers and provision of scholarships
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- Reward to researchers



#### 東京医科歯科大学脳神経外科同門会

The Tokyo Medical and Dental University

Neurosurgery Alumni Society has been established in 1995 to support professional, scientific, and medical interactions among the members. Over the past five decades, about 200 of our members have built successful careers at academic, research and medical facilities across the nation. It is our great pleasure that Dr. Koichi Ichimura, who is our alumni, will serve as the chairman of ISPNO2020, and we sincerely wish the symposium will be fruitful for all the participants.

# The Japan Pediatric Brain Tumor Research Fund (小児脳腫瘍研究支援委員会)

Keiji Sano Lectureship

第36回日本脳腫瘍学会学術集会

第37回日本脳腫瘍学会学術集会

ながしま脳神経・頭痛クリニック

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(五十音順)





We are looking forward to welcoming you to the 20<sup>th</sup> International Symposium on Pediatric Neuro-Oncology - June 13-15, 2022 - Hamburg, Germany

Chairs: Stefan Rutkowski, Hamburg

Stefan Pfister, Heidelberg

**Venue: Congress Center Hamburg** 











# 私たち認定NPO法人ゴールドリボン・ネットワークは 小児がんの子ども達が安心して笑顔で生活できる社会

を創ることを目指して活動する小児がん支援団体です

Gold Ribbon Network (GRN) is a non-profit organization dedicated to supporting children with cancer and their families. We aim to create a society where children with cancer are able to live their lives with comfort and security.

### ■活動事例-

# 〈ゴールドリボン〉 研究助成

小児がんを治る病気にするため、治癒率向上のための研究へ の助成と研究者の海外留学を支援しています。

2020年は、18の研究及び研究団体更には留学生1名に対し、計1590万円を助成しました。

## 〈ゴールドリボン〉 小児がん交通費等補助金制度

小児がんの治療にかかる費用で最も負担の大きい交通費や 付添いの方の宿泊費を助成する制度です。

自宅から100キロ以上離れている病院で入院や治療をする場合の交通費や付添いの方の宿泊費を年間1家族50万円を限度として支援しています。

2020年1~10月実績/140件 計20,282,000円

## 〈はばたけ! ゴールドリボン〉 奨学金制度(給付型)

小児がん経験者の方で大学や専門学校への進学を希望されている方を支援する事を目的とする月額4万円で、返済不要の給付型奨学金制度です。

2020年度の奨学生人数36名 支払総額1728万円 (予定)

## 小児がん経験者の方への 就労移行支援 等

## ■ What we do——

## (GRN) Research Grant

Aiming to ultimately conquer childhood cancer, we provide funding for research in childhood cancer and study abroad for one year for a researcher every year. In 2020, we granted altogether 15,900,000 yen (\$152,300) to 18 researches and a study abroad.

# (GRN) Hospital Visit Expenses

It is often the case in Japan that travel and accomodation expenses for hospital visits are the major costs families spend to treat childhood cancer. We cover hospital visit expenses for 100km plus travel and also accommodation for accompanying family members up to 500,000 yen per year per patient. From January to October 2020, we helped 140 cases in total of 20,282,000 yen (\$194,300).

# $\langle \text{GRN} \rangle \ Scholarship$

Cancer survivors will be awarded scholarships for universities, colleges or vocational schools. We grant annual 480,000 yen per student for the minimum of mandatory period required for the graduation. In 2020 we awarded 36 students, 17,280,000 yen (\$165,500) in total.

# Employment Assistance etc.

1\$=104.4 yen





# Good Ribbon Network

認定NPO法人 ゴールドリボン・ネットワーク





# SURGIFLO® Hemostatic Matrix Kit

サージセルの伝統を継承するとともに、 異なる原理の止血材を通じ、日本の医療へ新たな価値を提案します。







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2019年5月作成

# 子どもたちの笑顔のために、 続けてきたことがある、始めていくことがある。

小児がんは15歳未満の子どもに起こる悪性腫瘍の総称です。大人と比べて入院日数が 長期にわたることが多く、自宅から離れた病院で闘病生活を送らなければならないこともあります。

アフラックはこれまでも、社員・アソシエイツ(販売代理店)がひとつになって、 小児がんの子どもたちとそのご家族を支えるさまざまな活動を続けてきました。 そして2019年から、My Special Aflac Duckを通じた新しい活動を始めています。



小児がんの子どもたちの「今」の気持ちに寄り添う。 My Special Aflac Duck

病院での長い入院生活。My Special Aflac Duckは、 治療に取り組む子どもたちの心に寄り添うために、 米国で医療関係者、ロボット開発企業とアフラックが共同開発した アヒル型ロボットです。2019年から日本の小児がん診療病院等への 寄贈を進めています。

小児がんの子どもたちを「社会」で支えていく。 ゴールドリボン運動

小児がんを広く社会に知ってもらうことで 子どもたちを支える社会の実現を目指します。 ウォーキングイベントなどの啓発活動や 寄付・募金活動を展開しています。





がんと闘うご家族の「日々」をサポートする。 アフラック ペアレンツハウス

小児がんなどの難病の子どもたちと、そのご家族をサポートする総合支援センター。 遠隔地から治療に訪れる子どもたちやご家族の宿泊、専門カウンセラーによる 相談支援などを行っています。

小児がんを経験した子どもたちや、 親をがんで亡くした子どもたちの「明日」を応援する。

アフラック小児がん経験者・がん遺児奨学金制度

高校生を対象とした返還不要の奨学金制度。 これまでに支援した奨学生は、累計2,800人を超えています。 ※小児がん経験者を対象とした奨学金制度は、2014年から行っています。



アフラックの小児がん支援活動

「生きる」を創る。

## Tin filter technology

# 一般撮影レベルの被ばくで CT検査が可能になるのか?

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Tube Voltage: Tin filter 110kV CTDIvol:0.11mGy DLP:4mGy • cm Effective Dose: 0.05mSv\*

\*conversion factor: 0.014 (ICRP Publication102) Courtesy of Sendainakae Hospital, Mlyagi, Japan



Tin filter technologyは画像に影響のない X線を効率的にカットするハードウェア技術です。 CT装置にはこれまでもさまざまな被ばく低減機構が開発され、活用が進んでいますが Siemens Healthineers は Tin filter technology を加えることで一般撮影レベルの被ばく\*で CT 検査を可能にしました。





\* Radiology, 2008 Jul; 278 によると、一般的な胸部レントゲン撮影の被ばく線量は 0.1 mSv (実効線量換算) とされています

# Healthcare for You

私 たち エスアール エル は、 医 療 機 関 から 預 かる、 患 者 さま の 検 体 を 通 して、 い の ち の 未 来 を 見 つ め て い ま す。



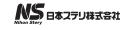
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2020年7月1日、みらかホールディングスは エናテ・ユー **H.U.グループホールディングス**へ社名変更いたしました。





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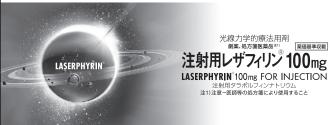
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がん、糖尿病、筋骨格系疾患、中枢神経系疾患、自己免疫疾患、 成長障害、疼痛などの領域で、日本の医療に貢献しています。

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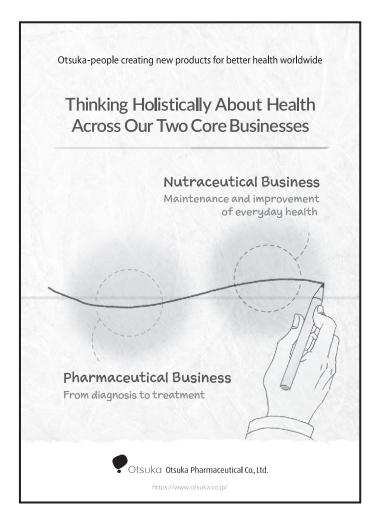
# Quality of Life 患者さんの健やかな笑顔のために。

一人でも多くの方が生きることを前向きにとらえ、 しあわせを感じられるように。

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# Neuro-Oncology Care Done Differently at Nationwide Children's Hopsital

## **Internationally Respected Leadership**

Maryam Fouladi, MD, MSc, FRCP, an internationally known expert in pediatric brain tumors, has joined Nationwide Children's as co-director of the Neuro-Oncology Program alongside neurosurgical co-director Jeff Leonard, M.D. Together to continue to lead an unprecedented program built by previous co-director and Nationwide Children's Head Start Clinical Trials PI Jonathan Finlay, MB, ChB, FRCP.

## **World Renowned Research Programs**

Nationwide Children's is connected and well represented in national pediatric neuro-oncology consortiums including:

- Collaborative Network for Neuro-oncology Clinical Trials (CONNECT)
- NEXT Consortium and Head Start Clinical Trials
- Pediatric Brain Tumor Consortium (PBTC)
- Pacific Pediatric Neuro-Oncology Consortium (PNOC)
- Children's Oncology Group (COG)

## **Global Reach**

Treating neuro-oncology patients from around the world, Including:

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14

20+

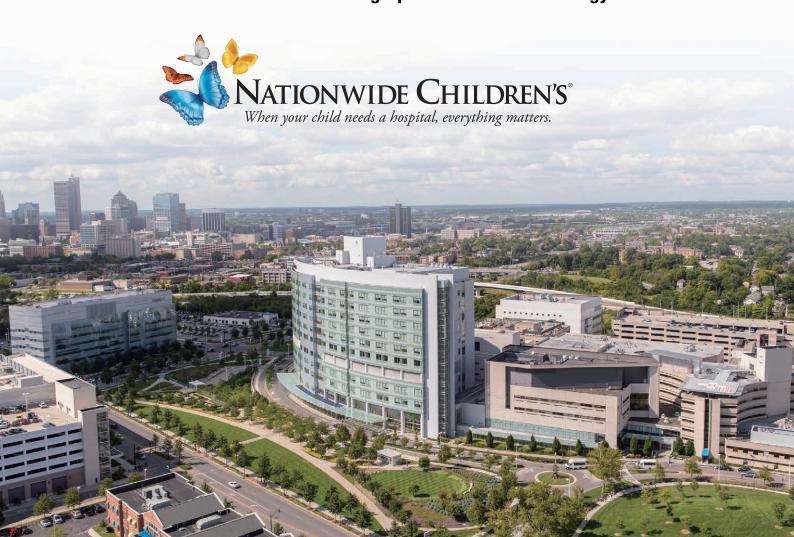
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Dr. David Ashley, Director, and the faculty and staff of

The Preston Robert Tisch Brain Tumor Center at Duke

are honored to sponsor the

19th Annual International Symposium on Pediatric Neuro-Oncology





# **CONNECTING BRAINS AROUND THE WORLD**



The Robert Connor Dawes Foundation works closely with organisations and researchers around the world to fast-track research funding and ultimately, improve treatment options.

We believe more brains are better than one, and we're proud to fund crucial research collaborations including, The AIM BRAIN Project, in partnership with ANZCHOG and DKFZ in Germany, and a CERN Fellowship currently underway in Cambridge.

Learn more at Redfoundation.org

SUPPORTING PEDIATRIC BRAIN CANCER



MATTERS IN THE AREAS OF RESEARCH, **CARE & DEVELOPMENT** 





## 子どもたちの笑顔のために、 続けてきたことがある、始めていくことがある。

小児がんは15歳未満の子どもに起こる悪性腫瘍の総称です。大人と比べて入院日数が 長期にわたることが多く、自宅から離れた病院で闘病生活を送らなければならないこともあります。 アフラックはこれまでも、社員・アソシエイツ(販売代理店)がひとつになって、 小児がんの子どもたちとそのご家族を支えるさまざまな活動を続けてきました。 そして2019年から、My Special Aflac Duckを通じた新しい活動を始めています。



My Special Aflac Duck

病院での長い入院生活。 My Special Aflac Duckは、

小児がんの子どもたちを「社会」で支えていく。 ゴールドリボン運動

小児がんを広く社会に知ってもらうことで 子どもたちを支える社会の実現を目指します。 ウォーキングイベントなどの啓発活動や 寄付・募金活動を展開しています。





がんと闘うご家族の「日々」をサポートする。 アフラック ペアレンツハウス

小児がんなどの難病の子どもたちと、そのご家族をサポートする総合支援センター。 遠陽地から治療に訪れる子どもたちやご家鉄の宿泊、専門カウンセラーによる 相談支援などを行っています。

小児がんを経験した子どもたちや、 親をがんで亡くした子どもたちの「明日」を応援する。 アフラック小児がん経験者・がん遺児奨学金制度

高校生を対象とした返還不要の奨学金制度。 これまでに支援した奨学生は、累計2,800人を超えています。 ※小児が人経験者を対象とした奨学金制度は、2014年から行っています。







The Arnold & Winnie Palmer Foundation champions the legacy of our founders. Through grantmaking and initiatives, we continue Arnold and Winnie's devotion to youth encouraging strong character and supporting children facing health challenges - and honor their commitment to nature and its ability to enrich and heal us.

www.PalmerFoundation.org

# The Childhood Brain Tumor Foundation



together, reaching for a cure!







Transforming how childhood brain tumors are treated and patient families cared for.



PBTF is a critical point of care for families, empowering them with patient and family education, financial relief and emotional support.



PBTF provides strategic leadership to fund key gaps in research and drug development pipelines, accelerate therapies, and cure all pediatric brain tumors.



PBTF offers a thriving community for kids, survivors and families in need, walking beside them from diagnosis through treatment and beyond.

A world without childhood brain tumors IS possible.

Join us in our mission to CARE, CURE, THRIVE.

www.curethekids.org | info@curethekids.org

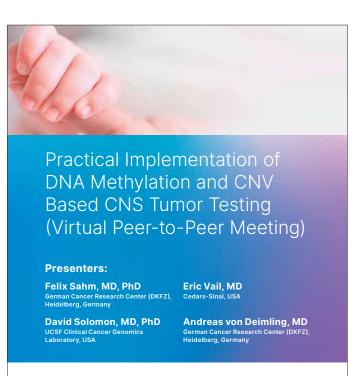


hhe
human health care

Ull Bristol Myers Squibb™

患者様の 想いを見つめて、 薬は生まれる。

<u>ヒューマン・ヘルスケア企業</u> **エーザイ** 





https://jp.illumina.com/events/seminars/2020/dna-methylation-peer-to-peer.html

#### Illumina K.K.





Doing everything we can for patients who are waiting

#### AbbVie GK

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People Passion. Possibilities.\*