

Supplementary Note 1

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Integration of transcriptome and genome

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Integration of epigenome and genome

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Patterns of structural variations, signatures, genomic correlations, retrotransposons, mobile elements

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Mutation signatures and processes

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Germline cancer genome

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Tumor subtypes and clinical translation

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Evolution and heterogeneity

David J Adams², Pavana Anur³⁷³, Rameen Beroukhim^{3,6,172}, Paul C Boutros^{9,133,142,143}, David D L Bowtell^{187,291}, Peter J Campbell^{1,2}, Shaolong Cao¹⁴⁸, Elizabeth L Christie¹⁸⁷, Marek Cmero^{374,375,376}, Yupeng Cun³⁷⁷, Kevin J Dawson², Jonas Demeulemeester^{63,64}, Stefan C Dentre^{2,64,354}, Amit G Deshwar³⁷⁸, Nilgun Donmez^{151,159}, Ruben M Drews²⁹⁴, Roland Eils^{52,54,66,67}, Yu Fan¹⁴⁸, Matthew W Fittall⁶⁴, Dale W Garsed^{187,188}, Moritz Gerstung^{7,8}, Gad Getz^{3,4,5,6}, Santiago Gonzalez^{7,8}, Gavin Ha³, Kerstin Haase⁶⁴, Marcin Imielinski^{299,300}, Lara Jerman^{8,379}, Yuan Ji^{380,381}, Clemency Jolly⁶⁴, Kortine Kleinheinz^{52,54}, Juhee Lee³⁸², Henry Lee-Six², Ignaty Leshchiner³, Dimitri Livitz³, Geoff Macintyre²⁹⁴, Salem Maliki^{151,159}, Florian Markowetz^{294,295}, Iñigo Martincorena², Thomas J Mitchell^{2,295,383}, Quaid D Morris^{358,384}, Ville Mustonen^{320,321,322}, Layla Oesper³⁸⁵, Martin Peifer³⁷⁷, Myron Peto³⁸⁶, Benjamin J Raphael¹²⁰, Daniel Rosebrock³, Yulia Rubanova^{160,358}, S Cenk Sahinalp^{151,158,159}, Adriana Salcedo⁹, Matthias Schlesner^{52,110}, Steven E Schumacher^{3,217}, Subhajit Sengupta³⁸⁷, Ruian Shi³⁸⁴, Seung Jun Shin²⁶⁴, **Paul T Spellman#**³⁸⁸, Oliver Spiro³, Lincoln D Stein^{9,10}, Maxime Tarabichi^{2,64}, **Peter Van Loo#**^{63,64}, Shankar Vembu^{384,389}, Ignacio Vázquez-García^{2,167,327,328}, Wenyi Wang¹⁴⁸, **David C Wedge#**^{2,354,355}, David A Wheeler^{164,165}, Jeffrey A Wintersinger^{192,358,390}, Tsun-Po Yang³⁷⁷, Xiaotong Yao^{299,316}, Kaixian Yu³⁹¹, Ke Yuan^{294,369,372} and Hongtu Zhu^{392,393}

Exploratory: portals, visualization and software infrastructure

Fatima Al-Shahrour³⁵⁷, Elisabet Barrera⁷, Wojciech Bazant⁷, Alvis Brazma⁷, Isidro

Cortés-Ciriano^{237,238,239}, Brian Craft²⁴⁰, David Craft³, Vincent Ferretti^{45,69}, Nuno A Fonseca^{7,70}, Anja Füllgrabe⁷, Mary J Goldman²⁴⁰, **David Haussler**#^{240,394}, Wolfgang Huber⁸, Maria Keays⁷, Alfonso Muñoz⁷, Brian D O'Connor^{45,50}, Irene Papatheodorou⁷, Robert Petryszak⁷, Elena Piñeiro-Yáñez³⁵⁷, Alfonso Valencia^{105,111}, **Miguel Vazquez**#^{105,112}, John N Weinstein^{395,396}, Qian Xiang¹¹⁶, Junjun Zhang⁴⁵ and **Jingchun Zhu**#²⁴⁰

Exploratory: mitochondrial variants and HLA/immunogenicity

Peter J Campbell^{1,2}, Yiwen Chen¹⁴⁸, Chad J Creighton²⁴¹, Li Ding^{138,139,146}, Akihiro Fujimoto⁴⁸, Masashi Fujita⁴⁸, Gad Getz^{3,4,5,6}, Leng Han²³¹, Takanori Hasegawa⁸⁷, Shuto Hayashi⁸⁷, Seiya Imoto^{86,87}, Young Seok Ju^{2,181}, Hyung-Lae Kim²⁷, Youngwook Kim^{96,97}, Youngil Koh^{307,308}, Mitsuhiro Komura⁸⁷, Jun Li¹⁴⁸, **Han Liang**#³⁹⁷, Iñigo Martincorena², Satoru Miyano⁸⁷, Shinichi Mizuno³⁹⁸, **Hidewaki Nakagawa**#⁴⁸, Keunchil Park^{206,207}, Eigo Shimizu⁸⁷, Yumeng Wang^{148,399}, John N Weinstein^{395,396}, Yanxun Xu⁴⁰⁰, Rui Yamaguchi⁸⁷, Fan Yang³⁸⁴, Yang Yang²³¹, Christopher J Yoon¹⁸¹, Sung-Soo Yoon³⁰⁸, Yuan Yuan¹⁴⁸, Fan Zhang²⁴⁶ and Zemin Zhang^{246,271}

Exploratory: pathogens

Malik Alawi^{401,402}, Ivan Borozan⁹, Daniel S Brewer^{403,404}, Colin S Cooper^{404,405,406}, Nikita Desai⁴⁵, **Roland Eils**#^{52,54,66,67}, Vincent Ferretti^{45,69}, Adam Grundhoff^{401,407}, Murat Iskar⁴⁰⁸, Kortine Kleinheinz^{52,54}, Peter Lichter⁴⁰⁸, **Hidewaki Nakagawa**#⁴⁸, Akinyemi I Ojesina^{255,256,257}, Chandra Sekhar Pedomallu^{3,6,172}, Matthias Schlesner^{52,110}, Xiaoping Su¹⁴⁴ and Marc Zapatka⁴⁰⁸

Tumor Specific Providers – Australia (Ovarian cancer)

Kathryn Alsop^{409,410}, Australian Ovarian Cancer Study Group^{187,311,411}, **David D L Bowtell**#^{187,291}, Timothy JC Bruxner¹⁸⁵, Angelika N Christ¹⁸⁵, Elizabeth L Christie¹⁸⁷, Stephen M Cordner⁴¹², Prue A Cowin¹⁸⁷, Ronny Drapkin⁴¹³, Dariush Etemadmoghadam^{187,188}, Sian Fereday⁴¹⁴, Dale W Garsed^{187,188}, Joshy George¹⁷⁰, Sean M Grimmond³⁶³, Anne Hamilton¹⁸⁷, Oliver Holmes^{311,312}, Jillian A Hung^{415,416}, Karin S Kassahn^{185,417}, Stephen H Kazakoff^{311,312}, Catherine J Kennedy^{418,419}, Conrad R Leonard^{311,312}, Linda Mileshekin¹⁸⁷, David K Miller^{185,360,420}, Gisela Mir Arnau¹⁸⁷, Chris Mitchell¹⁸⁷, Felicity Newell^{311,312}, Katia Nones^{311,312}, Ann-Marie Patch^{311,312}, John V Pearson^{311,312}, Michael C Quinn^{311,312}, Mark Shackleton^{188,218}, Darrin F Taylor¹⁸⁵, Heather Thorne¹⁸⁷, Nadia Traficante¹⁸⁷, Ravikiran Vedururu¹⁸⁷, Nick M Waddell³¹², Nicola Waddell^{311,312}, Paul M Waring²⁵³, Scott Wood^{311,312}, Qinying Xu^{311,312} and Anna deFazio^{421,422,423}

Tumor Specific Providers – Australia (Pancreatic cancer)

Matthew J Anderson¹⁸⁵, Davide Antonello⁴²⁴, Andrew P Barbour^{425,426}, Claudio Bassi⁴²⁴, Samantha Bersani⁴²⁷, **Andrew V Biankin**#^{359,360,361,362}, Timothy JC Bruxner¹⁸⁵, Ivana Cataldo^{427,428}, David K Chang^{360,362}, Lorraine A Chantrill³⁶⁰, Yoke-Eng Chiew⁴²¹, Angela Chou^{360,429}, Angelika N Christ¹⁸⁵,

Sara Cingarlini³⁷, Nicole Cloonan⁴³⁰, Vincenzo Corbo^{428,431, 432}, Fraser R Duthie^{433,434}, J Lynn Fink^{105,185}, Anthony J Gill^{360,435}, Janet S Graham^{362,436}, **Sean M Grimmond#**³⁶³, Ivon Harliwong¹⁸⁵, Oliver Holmes^{311,312}, Nigel B Jamieson^{361,362,437}, Amber L Johns^{360,420}, Karin S Kassahn^{185,417}, Stephen H Kazakoff^{311,312}, James G Kench^{360,435,438}, Luca Landoni⁴²⁴, Rita T Lawlor⁴²⁸, Conrad R Leonard^{311,312}, Andrea Mafficini⁴²⁸, Neil D Merrett^{424,439}, David K Miller^{185,360,420}, Marco Miotto⁴²⁴, Elizabeth A Musgrove³⁶², Adnan M Nagrial³⁶⁰, Felicity Newell^{311,312}, Katia Nones^{311,312}, Karin A Oien^{253,440}, Marina Pajic³⁶⁰, Ann-Marie Patch^{311,312}, John V Pearson^{311,312}, Mark Pinese³⁶⁰, Andreia V Pinho³⁶⁰, Michael C Quinn^{311,312}, Alan J Robertson¹⁸⁵, Ilse Rooman³⁶⁰, Borislav C Rusev⁴²⁸, Jaswinder S Samra^{424,435}, Maria Scardoni⁴²⁷, Christopher J Scarlett^{360,441}, Aldo Scarpa⁴²⁸, Elisabetta Sereni⁴²⁴, Katarzyna O Sikora⁴²⁸, Michele Simbolo⁴³¹, Morgan L Taschuk⁴⁵, Christopher W Toon³⁶⁰, Giampaolo Tortora^{37,38}, Caterina Vicentini⁴²⁸, Nick M Waddell³¹², Nicola Waddell^{311,312}, Scott Wood^{311,312}, Jianmin Wu³⁶⁰, Qinying Xu^{311,312} and Nikolajs Zeps⁴⁴²

Tumor Specific Providers – Australia (Skin cancer)

Lauri A Aaltonen⁴⁴³, Andreas Behren⁴⁴⁴, Hazel Burke⁴⁴⁵, Jonathan Cebon⁴⁴⁴, Rebecca A Dagg⁴⁴⁶, Ricardo De Paoli-Iseppi⁴⁴⁷, Ken Dutton-Regester³¹¹, Matthew A Field⁴⁴⁸, Anna Fitzgerald⁴⁴⁹, Sean M Grimmond³⁶³, **Nicholas K Hayward#**^{311,445}, Peter Hersey⁴⁴⁵, Oliver Holmes^{311,312}, Valerie Jakrot⁴⁴⁵, Peter A Johansson³¹¹, Hojabr Kakavand⁴⁴⁷, Stephen H Kazakoff^{311,312}, Richard F Kefford⁴⁵⁰, Loretta MS Lau⁴⁵¹, Conrad R Leonard^{311,312}, Georgina V Long⁴⁵², **Graham J Mann#**^{453,454}, Felicity Newell^{311,312}, Katia Nones^{311,312}, Ann-Marie Patch^{311,312}, John V Pearson^{311,312}, Hilda A Pickett⁴⁵¹, Antonia L Pritchard³¹¹, Gulietta M Pupo⁴⁵⁵, Robyn PM Saw⁴⁵², Sarah-Jane Schramm⁴⁵⁶, **Richard A Scolyer#**^{422,452,457,458}, Mark Shackleton^{188,218}, Catherine A Shang⁴⁵⁹, Ping Shang⁴⁵², Andrew J Spillane⁴⁵², Jonathan R Stretch⁴⁵², Varsha Tembe⁴⁵⁶, John F Thompson⁴⁵², Ricardo E Vilain⁴⁵⁷, Nick M Waddell³¹², Nicola Waddell^{311,312}, James S Wilmott⁴⁵², Scott Wood^{311,312}, Qinying Xu^{311,312} and Jean Y Yang⁴⁶⁰

Tumor Specific Providers – Canada (Pancreatic cancer)

John Bartlett^{461,462}, Prashant Bavi⁴⁶³, Ivan Borozan⁹, Dianne E Chadwick⁴⁶⁴, Michelle Chan-Seng-Yue⁴⁶³, Sean Cleary^{463,465}, Ashton A Connor^{466,467}, Karolina Czajka⁴⁶⁸, Robert E Denroche⁴⁶³, Neesha C Dhani⁴⁶⁹, Jenna Eagles⁷⁹, Vincent Ferretti^{45,69}, Steven Gallinger^{463,466,467}, Robert C Grant^{463,470}, David Hedley⁴⁶⁹, Michael A Hollingsworth⁴⁷¹, **Thomas J Hudson#**^{478,79}, Gun Ho Jang⁴⁶³, Jeremy Johns⁷⁹, Sangeetha Kalimuthu⁴⁶³, Sheng-Ben Liang⁴⁷², Ilinca Lungu^{463,473}, Xuemei Luo⁹, Faridah Mbabaali⁷⁹, **John D McPherson#**^{79,463,474}, Treasa A McPherson⁴⁷⁰, Jessica K Miller⁷⁹, Malcolm J Moore⁴⁶⁹, Faiyaz Notta^{463,475}, Danielle Pasternack⁷⁹, Gloria M Petersen⁴⁷⁶, Michael H A Roehr^{133,463,477,478,479}, Michelle Sam⁷⁹, Iris Selander⁴⁷⁰, Stefano Serra²⁵³, Sagedeh Shahabi⁴⁷², **Lincoln D Stein#**^{9,10}, Morgan L Taschuk⁴⁵, Sarah P Thayer¹⁰⁶, Lee E Timms⁷⁹, Gavin W Wilson^{9,463}, Julie M Wilson⁴⁶³ and Bradly G Wouters⁴⁸⁰

Tumor Specific Providers – Canada (Prostate cancer)

Timothy A Beck⁴⁵, Vinayak Bhandari⁹, Paul C Boutros^{9,133,142,143}, **Robert G Bristow#**^{133,481,482,483,484}, Colin C Collins¹⁵¹, Shadrielle MG Espiritu⁹, Neil E Fleshner⁴⁸⁵, Natalie S Fox⁹, Michael Fraser⁹, Syed Haider⁹, Lawrence E Heisler⁴⁸⁶, Vincent Huang⁹, Emilie Lalonde⁹, Julie Livingstone⁹, John D McPherson^{79,463,474}, Alice Meng⁴⁸⁷, Veronica Y Sabelnykova⁹, Adriana Salcedo⁹, Yu-Jia Shiah⁹, Theodorus Van der Kwast⁴⁸⁸ and Takafumi N Yamaguchi⁹

Tumor Specific Providers – China (Gastric cancer)

Shuai Ding⁴⁸⁹, Daiming Fan⁴⁹⁰, Yong Hou^{39,249}, Yi Huang^{153,154}, Lin Li³⁹, Siliang Li^{39,249}, Dongbing Liu^{39,249}, Xingmin Liu^{39,249}, **Youyong Lu#**^{28,29,30}, Yongzhan Nie^{490,491}, Hong Su^{39,249}, Jian Wang³⁹, Kui Wu^{39,249}, Xiao Xiao¹⁵⁴, Rui Xing^{29,492}, **Huanming Yang#**³⁹, Shanlin Yang⁴⁸⁹, Yingyan Yu^{493, 230}, Xiuqing Zhang³⁹, Yong Zhou³⁹ and Shida Zhu^{39,249}

Tumor Specific Providers – EU: France (Renal cancer)

Rosamonde E Banks⁴⁹⁴, Guillaume Bourque^{495,496}, Alvis Brazma⁷, Paul Brennan⁴⁹⁷, **Mark Lathrop#**⁴⁹⁶, Louis Letourneau⁴⁹⁸, Yasser Riazalhosseini⁴⁹⁶, Ghislaine Scelo⁴⁹⁷, **Jörg Tost#**⁴⁹⁹, Naveen Vasudev⁵⁰⁰ and Juris Viksna⁵⁰¹

Tumor Specific Providers – EU: United Kingdom (Breast cancer)

Sung-Min Ahn⁵⁰², Ludmil B Alexandrov^{2,317}, Samuel Aparicio⁵⁰³, Laurent Arnould⁵⁰⁴, MR Aure⁵⁰⁵, Shriram G Bhosle², E Birney⁷, Ake Borg⁵⁰⁶, S Boyault⁵⁰⁷, AB Brinkman⁵⁰⁸, JE Brock⁵⁰⁹, A Broeks⁵¹⁰, Adam P Butler², AL Børresen-Dale⁵⁰⁵, C Caldas^{511,512}, Peter J Campbell^{1,2}, Suet-Feung Chin^{511,512}, Helen Davies², C Desmedt⁵¹³, L Dirix⁵¹⁴, S Dronov², Anna Ehinger⁵¹⁵, JE Eyfjord⁵¹⁶, GG Van den Eynden⁵¹⁷, A Fatima²¹⁷, Jorge Reis Filho⁵¹⁸, JA Foekens⁵¹⁹, PA Futreal⁵²⁰, Øystein Garred^{521,522}, Moritz Gerstung^{7,8}, Dilip D Giri⁵¹⁸, D Glodzik², Dorthe Grabau⁵²³, Holmfridur Hilmarsdottir⁵¹⁶, GK Hooijer⁵²⁴, Jocelyne Jacquemier⁵²⁵, SJ Jang⁵²⁶, Jon G Jonasson⁵¹⁶, Jos Jonkers⁵²⁷, HY Kim⁵²⁵, Tari A King^{528,529}, Stian Knappskog², G Kong⁵²⁵, S Krishnamurthy⁵³⁰, S Van Laere⁵¹⁴, SR Lakhani⁵³¹, A Langerød⁵⁰⁵, Denis Larsimont⁵³², HJ Lee⁵²⁶, JY Lee⁵³³, Ming Ta Michael Lee⁵²⁰, Yilong Li², Ole Christian Lingjærde⁵³⁴, Gaetan MacGrogan⁵³⁵, JW Martens⁵³⁶, Sancha Martin^{2,369}, Iñigo Martincorena², Andrew Menzies², Sandro Morganella², Ville Mustonen^{320,321,322}, Serena Nik-Zainal^{2,324,325,326}, Sarah O'Meara², I Pauporté¹⁸, Sarah Pinder⁵³⁷, X Pivot⁵³⁸, Elena Provenzano⁵³⁹, CA Purdie⁵⁴⁰, Keiran M Raine², M Ramakrishna², K Ramakrishnan², AL Richardson²¹⁷, M Ringnér⁵⁰⁶, Javier Bartolomé Rodríguez¹⁰⁵, FG Rodríguez-González¹⁷⁵, G Romieu⁵⁴¹, Roberto Salgado²⁵³, Torill Sauer⁵³⁴, R Shepherd², AM Sieuwerts¹⁷⁷, PT Simpson⁵³¹, M Smid⁵⁴², C Sotiriou⁵⁵, PN Span⁵⁴³, J Staaf⁵⁰⁶, Lucy Stebbings², Ólafur Andri Stefánsson⁵⁴⁴, Alasdair Stenhouse⁵⁴⁵, **Michael Rudolf Stratton#**², HG Stunnenberg^{249,546}, Fred Sweep⁵⁴⁷, BK Tan⁵⁴⁸, Jon W Teague², Gilles Thomas⁵⁴⁹, AM Thompson⁵⁴⁵, S Tommasi⁵⁵⁰, I Treilleux^{551,552}, Andrew Tutt²¹⁷, NT Ueno³⁹³, Peter Van Looy^{63,64}, P Vermeulen⁵¹⁴, Alain Viari⁴²⁸, MJ van de Vijver²⁵³, A Vincent-Salomon⁵⁴⁶, David C Wedge^{2,354,355}, Bernice Huimin Wong⁵⁵³, Lucy Yates², X Zou², CHM van Deurzen⁵³⁶ and L van't Veer^{554,555}

Tumor Specific Providers – Germany (Malignant lymphoma)

Ole Ammerpohl^{556,557}, Sietse Aukema^{558,559}, Anke K Bergmann⁵⁶⁰, Stephan H Bernhart^{276,277,281}, Hans Binder^{276,277}, Arndt Borkhardt⁵⁶¹, Christoph Borst⁵⁶², Benedikt Brors^{82,119,278}, Birgit Burkhardt⁵⁶³, Alexander Claviez⁵⁶⁴, Roland Eils^{52,54,66,67}, Maria Elisabeth Goebler⁵⁶⁵, Andrea Haake⁵⁵⁶, Siegfried Haas⁵⁶², Martin Hansmann⁵⁶⁶, Jessica I Hoell⁵⁶¹, Steve Hoffmann^{277,279,280,281}, Michael Hummel⁵⁶⁷, Daniel Hübschmann^{54,66,83,84,85}, Dennis Karsch⁵⁶⁸, Wolfram Klapper⁵⁵⁹, Kortine Kleinheinz^{52,54}, Michael Kneba⁵⁶⁸, Jan O Korbel^{7,8}, Helene Kretzmer^{277,281}, Markus Kreuz⁵⁶⁹, Dieter Kube⁵⁷⁰, Ralf Küppers⁵⁷¹, Chris Lawerenz⁶⁷, Dido Lenze⁵⁶⁷, Peter Lichter⁴⁰⁸, Markus Loeffler⁵⁶⁹, Cristina López^{262,556}, Luisa Mantovani-Löffler⁵⁷², Peter Möller⁵⁷³, German Ott⁵⁷⁴, Bernhard Radlwimmer⁴⁰⁸, Julia Richter^{556,559}, Marius Rohde⁵⁷⁵, Philip C Rosenstiel⁵⁷⁶, Andreas Rosenwald⁵⁷⁷, Markus B Schilhabel⁵⁷⁶, Matthias Schlesner^{52,110}, Stefan Schreiber⁵⁷⁸, **Reiner Siebert#**^{261,262}, Peter F Stadler^{276,277,281}, Peter Staib⁵⁷⁹, Stephan Stilgenbauer⁵⁸⁰, Stephanie Sungalee⁸, Monika Szczepanowski⁵⁵⁹, Umut H Toprak^{54,581}, Lorenz HP Trümper⁵⁷⁰, Rabea Wagener^{262,556} and Thorsten Zenz⁸²

Tumor Specific Providers – Germany (Pediatric Brain cancer)

Ivo Buchhalter^{52,53,54}, Juergen Eils^{66,67}, Roland Eils^{52,54,66,67}, Volker Hovestadt⁴⁰⁸, Barbara Hutter^{80,81,82}, David TW Jones^{301,302}, Natalie Jäger⁵², Christof von Kalle⁸⁴, Marcel Kool^{98,301}, Jan O Korbel^{7,8}, Andrey Korshunov⁹⁸, Pablo Landgraf⁵⁸², Chris Lawerenz⁶⁷, Hans Lehrach⁵⁸³, **Peter Lichter#**⁴⁰⁸, Paul A Northcott⁵⁸⁴, Stefan M Pfister^{98,301,585}, Bernhard Radlwimmer⁴⁰⁸, Guido Reifenberger⁵⁸², Matthias Schlesner^{52,110}, Hans-Jörg Warnatz⁵⁸³, Joachim Weischenfeldt^{8,113,114}, Stephan Wolf⁵⁸⁶, Marie-Laure Yaspo⁵⁸³ and Marc Zapatka⁴⁰⁸

Tumor Specific Providers – Germany (Prostate cancer)

Yassen Assenov⁵⁸⁷, Benedikt Brors^{82,119,278}, Juergen Eils^{66,67}, Roland Eils^{52,54,66,67}, Lars Feuerbach¹¹⁹, Clarissa Gerhäuser²⁸⁵, Jan O Korbel^{7,8}, Chris Lawerenz⁶⁷, Hans Lehrach⁵⁸³, Sarah Minner⁵⁸⁸, Christoph Plass²⁸⁵, **Guido Sauter#**⁵⁸⁹, Thorsten Schlomm^{114,590}, Nikos Sidiropoulos¹¹³, Ronald Simon⁵⁸⁹, **Holger Sültmann#**^{482,591}, Hans-Jörg Warnatz⁵⁸³, Dieter Weichenhan²⁸⁵, Joachim Weischenfeldt^{8,113,114} and Marie-Laure Yaspo⁵⁸³

Tumor Specific Providers – India (Oral cancer)

Nidhan K Biswas⁵⁹², Luca Landoni⁴²⁴, Arindam Maitra⁵⁹², **Partha P Majumder#**⁵⁹² and **Rajiv Sarin#**⁵⁹³

Tumor Specific Providers – Italy (Pancreatic cancer)

Davide Antonello⁴²⁴, Stefano Barbi⁴³¹, Claudio Bassi⁴²⁴, Samantha Bersani⁴²⁷, Giada Bonizzato⁴²⁸, Cinzia Cantù⁴²⁸, Ivana Cataldo^{427,428}, Sara Cingarlini³⁷, Vincenzo Corbo^{428,431, 432}, Angelo P Dei Tos⁵⁹⁴, Matteo Fassan⁵⁹⁵, Sonia Grimaldi⁴²⁸, Luca Landoni⁴²⁴, Rita T Lawlor⁴²⁸, Claudio Luchini⁴²⁷, Andrea Mafficini⁴²⁸, Giuseppe Malleo⁴²⁴, Giovanni Marchegiani⁴²⁴, Michele Milella³⁷, Marco Miotto⁴²⁴, Salvatore Paiella⁴²⁴, Antonio Pea⁴²⁴, Paolo Pederzoli⁴²⁴, Borislav C Rusev⁴²⁸, Andrea Ruzzenente⁴²⁴, Roberto Salvia⁴²⁴, Maria Scardoni⁴²⁷, **Aldo Scarpa**^{#428}, Elisabetta Sereni⁴²⁴, Michele Simbolo⁴³¹, Nicola Sperandio⁴²⁸, Giampaolo Tortora^{37,38} and Caterina Vicentini⁴²⁸

Tumor Specific Providers – Japan (Biliary tract cancer)

Yasuhito Arai³³, Natsuko Hama³³, Nobuyoshi Hiraoka⁵⁹⁶, Fumie Hosoda^{33,597}, Mamoru Kato³⁶⁶, Hiromi Nakamura³³, Hidenori Ojima⁵⁹⁸, Takuji Okusaka⁵⁹⁹, **Tatsuhiko Shibata**^{#33,34}, Yasushi Totoki³³ and Tomoko Urushidate³⁴

Tumor Specific Providers – Japan (Gastric cancer)

Hiroyuki Aburatani^{#272}, Yasuhito Arai³³, Masashi Fukayama⁶⁰⁰, Natsuko Hama³³, Fumie Hosoda^{33,597}, Shumpei Ishikawa⁶⁰¹, Hitoshi Katai⁶⁰², Mamoru Kato³⁶⁶, Hiroto Katoh⁶⁰³, Daisuke Komura⁶⁰¹, Genta Nagae^{272,284}, Hiromi Nakamura³³, Hirofumi Rokutan⁶⁰⁴, Mihoko Saito-Adachi³³, **Tatsuhiko Shibata**^{#33,34}, Akihiro Suzuki^{272,605}, Hirokazu Taniguchi⁶⁰⁶, Kenji Tatsuno²⁷², Yasushi Totoki³³, Tetsuo Ushiku⁶⁰⁰, Shinichi Yachida^{33,607} and Shogo Yamamoto²⁷²

Tumor Specific Providers – Japan (Liver cancer)

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Tumor Specific Providers – Singapore (Biliary tract cancer)

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Tumor Specific Providers – South Korea (Blood cancer)

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Tumor Specific Providers – Spain (Chronic Lymphocytic Leukemia)

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Tumor Specific Providers – United Kingdom (Bone cancer)

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Tumor Specific Providers – United Kingdom (Esophageal cancer)

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Tumor Specific Providers – United Kingdom (Prostate cancer)

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