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Germline and somatic FGFR1 abnormalities in dysembryoplastic neuroepithelial tumors

Barbara Rivera^{1,2} · Tenzin Gayden² · Jian Carrot-Zhang^{2,3} · Javad Nadaf^{2,3} · Talia Boshari⁴ · Damien Faury² · Michele Zeinieh² · Romeo Blanc⁵ · David L. Burk⁶ · Somayyeh Fahiminiya^{2,3} · Eric Bareke^{2,3} · Ulrich Schüller⁷ · Camelia M. Monoranu,⁸ Ronald Sträter⁹ · Kornelius Kerl⁹ · Thomas Niederstadt¹⁰ · Gerhard Kurlemann¹¹ · Benjamin Ellezam¹² · Zuzanna Michalak^{13,14} · Maria Thom^{13,14} · Paul J. Lockhart^{15,16} · Richard J. Leventer^{15,17,18} · Milou Ohm¹⁹ · Duncan MacGregor²⁰ · David Jones^{21,22} · Jason Karamchandani²³ · Celia MT Greenwood^{2,24} · Albert M. Berghuis⁶ · Susanne Bens²⁵ · Reiner Siebert²⁵ · Magdalena Zakrzewska²⁶ · Pawel P. Liberski²⁶ · Krzysztof Zakrzewski²⁷ · Sanjay M. Sisodiya^{14,28} · Werner Paulus²⁹ · Steffen Albrecht³⁰ · Martin Hasselblatt²⁹ · Nada Jabado^{2,31} · William D Foulkes^{1,2,4,32} · Jacek Majewski^{2,3}

¹Program in Cancer Genetics, Department of Oncology and Human Genetics, McGill University, Montreal, Quebec, Canada

²Department of Human Genetics, McGill University, Montreal, Quebec, Canada

³McGill University and Génome Québec Innovation Centre, Montreal, Quebec, Canada; ⁴Department of Medical Genetics, Lady Davis Institute and Segal Cancer Centre, Jewish General Hospital, McGill University, Montreal, Quebec, Canada.

⁵Bloomfield Center for Research on Aging, Lady Davis Institute for Medical Research, McGill University, Jewish General Hospital, Montréal, Quebec, Canada

⁶Department of Biochemistry and Groupe de Recherche Axé sur la Structure des Protéines, McGill University, Montreal, Quebec, Canada

⁷Center for Neuropathology, Ludwig-Maximilians-University, Munich, Germany

⁸Department of Neuropathology, Institute of Pathology, University of Würzburg, Comprehensive Cancer Center Mainfranken, Würzburg, Germany

⁹Pediatric Hematology and Oncology, University Children's Hospital Münster, Münster, Germany

- ¹⁰Department of Radiology, University Hospital Münster, Münster, Germany
- ¹¹Division of Pediatric Neurology, University Children's Hospital, Münster, Germany
- ¹²Department of Pathology, CHU Sainte-Justine, Montreal, Canada
- ¹³Division of Neuropathology, UCL Institute of Neurology, London, UK
- ¹⁴Department of Clinical and Experimental Epilepsy, UCL Institute of Neurology, London, UK
- ¹⁵Department of Pediatrics, The University of Melbourne, Melbourne, Australia
- ¹⁶Bruce Lefroy Centre for Genetic Health Research, Murdoch Childrens Research Institute, Melbourne, Australia
- ¹⁷Department of Neurology, The Royal Children's Hospital, Melbourne, Australia
- ¹⁸Murdoch Childrens Research Institute, Melbourne, Australia
- ¹⁹VUMC School of Medical Sciences, Amsterdam, The Netherlands
- ²⁰Department of Anatomical Pathology, Royal Children's Hospital, Melbourne, Australia; ²¹German Cancer Consortium (DKTK), German Cancer Research Center (DKFZ), Heidelberg, Germany
- ²²Division of Pediatric Neurooncology (B062), German Cancer Research Center (DKFZ), Heidelberg, Germany
- ²³Department of Pathology, McGill University, Montreal Neurological Institute, Montreal, Quebec, Canada
- ²⁴Departments of Oncology and Epidemiology, Biostatistics & Occupational Health, McGill University, Montreal, Quebec, Canada
- ²⁵Institute of Human Genetics, Christian-Albrechts-University Kiel & University Hospital Schleswig-Holstein, Campus Kiel, Kiel, Germany
- ²⁶Department of Molecular Pathology and Neuropathology, Medical University of Lodz, Lodz, Poland
- ²⁷Department of Neurosurgery, Polish Mother's Memorial Hospital Research Institute, Lodz, Poland
- ²⁸Epilepsy Society, Bucks, UK
- ²⁹Institute of Neuropathology, University Hospital Münster, Münster, Germany
- ³⁰Department of Pathology, Montreal Children's Hospital, McGill University Health Centre, McGill University, Montreal, Quebec, Canada

³¹Department of Pediatrics, Montreal Children's Hospital, McGill University Health Centre, Montreal, Quebec, Canada

³²Department of Medical Genetics and Cancer Research Program, Research Institute McGill University Health Centre, Montreal, Quebec, Canada

Correspondence to: Martin Hasselblatt, William D Foulkes or Jacek Majewski

martin.hasselblatt@ukmuenster.de, william.foulkes@mcgill.ca, jacek.majewski@mcgill.ca

Suppl. Table 1 Complete series of cases in the study and their diagnoses, age, sex, and location

Case	Diagnosis (dx)	Sex	Age	Location	Mutation Status	Clinical Details and Outcome	Comments
1	DNET	female	49	Temporo-mesial	-	Complex-focal seizures since several years	
2	DNET	male	17	Temporal	-	Focal seizures	
3	DNET	male	27	Midline (septum pellucidum)	<i>FGFR1</i> full gene duplication	-	
4	DNET	male	21	R, Temporo-frontal	p.K656D	Complex-focal seizure	
5	DNET	female	38	R, Temporal	TKD	Generalized seizures	
6	DNET	male	42	R, Temporo-mesial	p.K656E	Complex-focal seizures since several years	
7	DNET	male	26	R, Temporo-parietal	p.N546K	Seizures	
8	DNET	female	43	R, Temporo-mesial	TKD	Reported recurrence	Recurrence sample
9	DNET	male	18	R, Parietal	p.K656E+ p.K655V	Incidental finding after accident	
10	DNET	male	12	R, Parietal	p.K656E+p.E633A+ p.D652G+p.A640A	Seizures, reported recurrence	
11*	DNET	male	12	R, Parietal	p.K656E+p.E633A+ p.D652G+p.A640A	-	Recurrence sample of case 10
12	Unclear	female	9	Parietal	-	-	
13	Pilocytic astrocytoma	female	23	Parieto-occipital	-	Single seizure	
14	DNET	male	8	L, Temporal	TKD	Daily seizures in the early morning	
15	DNET	male	14	R, Occipital	TKD	Seizures with visual hallucinations	
16	DNET	male	30	L, Frontal	p.K656D	Seizures	
17	DNET	male	11	L, Temporal	-	Generalized seizures	
18	DNET	male	6	R, Frontal	TKD	Complex-focal seizures since several weeks	
19	DNET	female	18	R, Frontal	<i>FGFR1-TACCD1</i> fusion		
20	DNET	female	1mo	L, Temporal	<i>FGFR1</i> breakpoint	Complex-focal seizures since 4 weeks of age	
21	Unclear	male	8	R, Parietal	-	Seizures	

Case	Diagnosis (dx)	Sex	Age	Location	Mutation Status	Clinical Details and Outcome	Comments
22	DNET	male	11	R, Occipital	-	Seizures	
23	DNET	male	13	L, Temporal	<i>FGFR1</i> breakpoint	-	
24	Low grade glioma	male	2	L, Temporal	BRAF p.V600E	-	
25	DNET	male	2	L, Temporal	-	Seizures since 2 y/o	
26	Unclear	male	31	R, Temporal	p.K656E	Seizures	
27	DNET	male	1	L, Temporal	-	Absence seizures & complex-focal seizures since several months	
28	Unclear	female	3mo	R, Temporal	-	Seizures since 3mo of age	
29	DNET	female	43	R, Temporo-mesial	-	Seizures	
30	Low grade glioma	male	4mo	R, Frontal	-	Seizures since 4mo of age, no recurrence at 4-yr F/U	
31	Oligodendroglial tumor	female	1.5	R, Temporal	-	Generalized seizures since 18 mo of age, no recurrence at 1-yr F/U	
32	DNET	female	12	L, Temporo-mesial	p.K656E; p.K655I	Seizures, recurrence at 5-yr F/U	
33*	DNET	female	17	L, Temporo-mesial	p.K656E; p.K655I	Seizures, no recurrence at 1-yr F/U	Recurrence sample of case 32
34	DNET	female	20	R, Temporal	-	Seizures	
35	DNET	female	28	R, Fronto-temporal	-	Seizures, no recurrence at 3-yr F/U	
36	DNET	male	5	L, Temporo-mesial	p.K656D	Generalized seizures since 5 y/o, no recurrence at 1-yr F/U	
37	DNET	male	11	L, Temporal	-	Absence seizures	
38	DNET	male	13	R, Temporal	p.N546K	Complex-focal seizures with aura since 13 y/o, recurrence at 4-yr F/U, 1 yr after no evidence of disease	
39	Oligodendroglial tumor	female	12	Temporal	-	No recurrence at 2-mo F/U	
40	Unclear	female	38	-	N546K+ <i>FGFR1</i> breakpoint	-	
41	Cortical dysplasia	female	18	L, Anterior temporal	-	-	
42	Unclear	female	20	L, Frontal operculum	p.K656E+p.D652G	Reported recurrence	Low tumor content
43	Ganglioglioma	male	5	L, Parieto-occipital	-	-	

Case	Diagnosis (dx)	Sex	Age	Location	Mutation Status	Clinical Details and Outcome	Comments
44	Pilocytic astrocytoma	female	3mo	L, Frontal	-	Reported recurrence as PA	Low tumor content
45*	Pilocytic astrocytoma	female	3mo	L, Frontal	TKD	-	Recurrence sample of case 44
46	Diffuse astrocytic tumor	female	6days	L, Temporal	-	-	
47	Unclear	male	2	R, Temporal	-	-	
48	Unclear	male	1	R, Temporal	<i>FGFR3-TACCD3</i>	-	
49	Unclear	male	12	L, Temporal	-	-	
50	DNET	female	1	R, Occipital	TKD	-	
51	DNET	female	4mo	L, Frontal	TKD	-	
52	DNET	female	6mo	R, Temporal	TKD	Reported recurrence	
53	Ganglioglioma	female	4mo	L, Temporal	-	-	
54	Unclear	male	6mo	R, Temporal	-	-	
55	DNET	male	2mo	L, Temporal	-	-	
56	Meningo-angiomas	female	5mo	L, Parietal	-	Reported recurrence	
57	Unclear	male	8	L, Temporal	-	-	
58	Gliosis	male	6mo	R, Temporal	-	-	Low tumor content
59	DNET	male	1mo	R, Parieto-occipital	TKD	Reported recurrence	
60*	DNET	male	14	R, Parieto-occipital	TKD+ chromosomal 8 gain	-	Recurrence sample of case 59. See supplementary figure 4
61	DNET	female	1mo	L, Frontal	TKD	No recurrence reported	
62	DNET	female	1mo	R, Temporo-parietal	TKD	-	
63	Unclear	male	2	L, Temporal	-	-	
64	Diffuse astrocytic tumor	male	4mo	L, Fronto-parietal	-	Reported recurrence & death with no further surgery	
65	Unclear	male	5	L, Occipital	-	-	
66	DNET	male	1mo	R, Parieto-occipital	p.K656D	-	

Case	Diagnosis (dx)	Sex	Age	Location	Mutation Status	Clinical Details and Outcome	Comments
67	Diffuse astrocytic tumor	male	1mo	L, Fronto-parietal	-	-	
68	Diffuse astrocytic tumor	male	17	Temporal	p.K656D	Residual tumor seen at 15-yr F/U MRI, no increase in size	
69	Diffuse astrocytic tumor	male	31	Temporal	BRAF p.V600E	-	
70	Cortical dysplasia	male	22	Medial temporal	BRAF p.V600E	-	
71	Unclear	female	7	Temporal	BRAF p.V600E	No recurrence at 12-yr F/U	
72	DNET	female	24	Temporal	-	-	
73	Unclear	male	30	Temporal	BRAF p.V600E	-	
74	Unclear	female	21	Temporal	BRAF p.V600E	No recurrence at 8-yr F/U MRI	
75	Ganglioglioma	female	22	Temporal	-	No recurrence at 1-yr F/U	
76	Ganglioglioma	male	11	Temporal	-	No recurrence at 7-yr F/U	
77	Ganglioglioma	female	7	Temporal	BRAF p.V600E	-	
78	Unclear	male	15	Temporal	-	No recurrence at 1-yr F/U MRI	
79	Unclear	male	36	Temporal	BRAF p.V600E	No recurrence at 3.5-yr F/U	
80	Unclear	male	6	Temporal	BRAF p.V600E	Local F/U for 1.5 yrs, no recurrence	
81	Unclear	male	3	Temporal	BRAF p.V600E	No change on MRI at 6-yr post-op F/U	
82	Unclear	female	15	Temporal	-	No recurrence after 6 yrs	
83	Ganglioglioma	male	42	Temporal	-	No recurrence at 3 yrs	
84	DNET	female	16	Frontal	-	No recurrence at 3-yr post-op F/U	
85	Unclear	male	1	Medial temporal	-	No recurrence at 4-yr F/U	
86	DNET	male	27	Temporal	-	No recurrence at 4-yr F/U	
87	Pilocytic astrocytoma	female	31	Temporal	p.K656E	No recurrence at 5-yr F/U	
88	Ganglioglioma	male	4	Frontal	BRAF p.V600E	No recurrence at 1-yr F/U	
89	Unclear	female	8	Medial temporal	BRAF p.V600E	No recurrence at 2.5-yr F/U MRI	
90	Unclear	female	21	Temporal	-	No recurrence at 5-yr F/U MRI	
91	DNET	female	17	Temporal	-	MRI scan 'stable' at 2.5-yr F/U	
92	DNET	female	23	Temporal	-	No recurrence at 2-yr F/U MRI	

Case	Diagnosis (dx)	Sex	Age	Location	Mutation Status	Clinical Details and Outcome	Comments
93	Unclear	male	42	Temporal	-	Seizure free; no recurrence at 1-yr post-op F/U	
94	Unclear	male	32	Temporal	-	Seizure free after 3 yrs; no recurrence or residual tumor at 1-yr F/U	Low tumor content
95	DNET	male	27	Temporal	-	No recurrence at 1-yr F/U MRI	
96	DNET	female	45	Parietal	-	No recurrence at 1-yr F/U MRI; nocturnal seizures	
97	Unclear	male	30	Temporal	p.N546K	-	
98	Unclear	female	13	L, Medial temporal	p.N546 K	Reported recurrence	
99	Unclear	female	12	R, Parieto-occipital	-	No recurrence reported	
100	Unclear	female	4	Posterior insula, L temporal lobe	p.N546K+p.K656N	Reported recurrence	

*indicates recurrence of previous case

“F/U” = follow-up

Age indicated is first reported seizure or first reported tumor diagnosis, when the former data was unavailable

Age of relapse is age at which second tumor was diagnosed

"Unclear" used to designate cases in which the diagnosis remains unclear because (1) material is sparse, or (2) some elements of DNET (such as nodular growth) are present but no glioneuronal element is encountered, or (3) there is disagreement between pathologists and a more definite diagnosis would require an extensive immunohistochemical /molecular work-up, for which no material was available. For statistical purposes, these unclear diagnosis cases were all included in the non-DNET group.