

# Sophie Erhardt

## List of Publications by Year in descending order

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119  
papers

7,747  
citations

57758

44  
h-index

54911

84  
g-index

129  
all docs

129  
docs citations

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times ranked

8491  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cortical Brain Abnormalities in 4474 Individuals With Schizophrenia and 5098 Control Subjects via the Enhancing Neuro Imaging Genetics Through Meta Analysis (ENIGMA) Consortium. <i>Biological Psychiatry</i> , 2018, 84, 644-654.	1.3	627
2	Skeletal Muscle PGC-1 $\beta$ Modulates Kynurenine Metabolism and Mediates Resilience to Stress-Induced Depression. <i>Cell</i> , 2014, 159, 33-45.	28.9	581
3	Interleukin-6 Is Elevated in the Cerebrospinal Fluid of Suicide Attempters and Related to Symptom Severity. <i>Biological Psychiatry</i> , 2009, 66, 287-292.	1.3	436
4	Kynurenic acid levels are elevated in the cerebrospinal fluid of patients with schizophrenia. <i>Neuroscience Letters</i> , 2001, 313, 96-98.	2.1	411
5	Connecting inflammation with glutamate agonism in suicidality. <i>Neuropsychopharmacology</i> , 2013, 38, 743-752.	5.4	287
6	Increased Levels of Kynurenine and Kynurenic Acid in the CSF of Patients With Schizophrenia. <i>Schizophrenia Bulletin</i> , 2012, 38, 426-432.	4.3	248
7	A role for inflammatory metabolites as modulators of the glutamate N-methyl-d-aspartate receptor in depression and suicidality. <i>Brain, Behavior, and Immunity</i> , 2015, 43, 110-117.	4.1	240
8	Elevated levels of kynurenic acid in the cerebrospinal fluid of male patients with schizophrenia. <i>Schizophrenia Research</i> , 2005, 80, 315-322.	2.0	214
9	The kynurenine pathway in schizophrenia and bipolar disorder. <i>Neuropharmacology</i> , 2017, 112, 297-306.	4.1	187
10	Increased levels of IL-6 in the cerebrospinal fluid of patients with chronic schizophrenia "significance for activation of the kynurenine pathway. <i>Journal of Psychiatry and Neuroscience</i> , 2015, 40, 126-133.	2.4	173
11	Endogenous kynurenic acid disrupts prepulse inhibition. <i>Biological Psychiatry</i> , 2004, 56, 255-260.	1.3	164
12	Elevation of cerebrospinal fluid interleukin-1 $\beta$ in bipolar disorder. <i>Journal of Psychiatry and Neuroscience</i> , 2011, 36, 114-118.	2.4	151
13	The kynurenic acid hypothesis of schizophrenia. <i>Physiology and Behavior</i> , 2007, 92, 203-209.	2.1	148
14	Activation of brain interleukin-1 $\beta$ in schizophrenia. <i>Molecular Psychiatry</i> , 2009, 14, 1069-1071.	7.9	147
15	An enzyme in the kynurenine pathway that governs vulnerability to suicidal behavior by regulating excitotoxicity and neuroinflammation. <i>Translational Psychiatry</i> , 2016, 6, e865-e865.	4.8	141
16	Pharmacological Manipulation of Kynurenic Acid. <i>CNS Drugs</i> , 2009, 23, 91-101.	5.9	138
17	The role of inflammation in suicidal behaviour. <i>Acta Psychiatrica Scandinavica</i> , 2015, 132, 192-203.	4.5	137
18	Endurance exercise increases skeletal muscle kynurenine aminotransferases and plasma kynurenic acid in humans. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 310, C836-C840.	4.6	119

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19	GABA B receptor-mediated modulation of the firing pattern of ventral tegmental area dopamine neurons in vivo. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2002, 365, 173-180.	3.0	101
20	Imbalanced Kynurenine Pathway in Schizophrenia. <i>International Journal of Tryptophan Research</i> , 2014, 7, IJTR.S16800.	2.3	95
21	Lower levels of the glial cell marker TSPO in drug-naive first-episode psychosis patients as measured using PET and [11C]PBR28. <i>Molecular Psychiatry</i> , 2017, 22, 850-856.	7.9	94
22	The KMO allele encoding Arg452 is associated with psychotic features in bipolar disorder type 1, and with increased CSF KYNA level and reduced KMO expression. <i>Molecular Psychiatry</i> , 2014, 19, 334-341.	7.9	91
23	Elevated levels of kynurenic acid in the cerebrospinal fluid of patients with bipolar disorder. <i>Journal of Psychiatry and Neuroscience</i> , 2010, 35, 195-199.	2.4	87
24	Prostaglandin-mediated control of rat brain kynurenic acid synthesis – opposite actions by COX-1 and COX-2 isoforms. <i>Journal of Neural Transmission</i> , 2005, 112, 863-872.	2.8	77
25	Clozapine interacts with the glycine site of the NMDA receptor: Electrophysiological studies of dopamine neurons in the rat ventral tegmental area. <i>Life Sciences</i> , 2008, 83, 170-175.	4.3	74
26	Increased phasic activity of dopaminergic neurones in the rat ventral tegmental area following pharmacologically elevated levels of endogenous kynurenic acid. <i>Acta Physiologica Scandinavica</i> , 2002, 175, 45-53.	2.2	73
27	Excitatory and inhibitory responses of dopamine neurons in the ventral tegmental area to nicotine. <i>Synapse</i> , 2002, 43, 227-237.	1.2	71
28	A genome-wide association study of kynurenic acid in cerebrospinal fluid: implications for psychosis and cognitive impairment in bipolar disorder. <i>Molecular Psychiatry</i> , 2016, 21, 1342-1350.	7.9	71
29	Cerebrospinal fluid kynurenic acid is associated with manic and psychotic features in patients with bipolar I disorder. <i>Bipolar Disorders</i> , 2012, 14, 719-726.	1.9	70
30	Electroconvulsive therapy suppresses the neurotoxic branch of the kynurenine pathway in treatment-resistant depressed patients. <i>Journal of Neuroinflammation</i> , 2016, 13, 51.	7.2	69
31	CSF biomarkers in suicide attempters – a principal component analysis. <i>Acta Psychiatrica Scandinavica</i> , 2011, 124, 52-61.	4.5	65
32	Kynurenine 3-monooxygenase polymorphisms: relevance for kynurenic acid synthesis in patients with schizophrenia and healthy controls. <i>Journal of Psychiatry and Neuroscience</i> , 2012, 37, 53-57.	2.4	65
33	Kynurenic Acid And Schizophrenia. <i>Advances in Experimental Medicine and Biology</i> , 2003, 527, 155-165.	1.6	65
34	Oxytocin increases locus coeruleus alpha 2-adrenoreceptor responsiveness in rats. <i>Neuroscience Letters</i> , 1998, 255, 115-118.	2.1	62
35	Low IL-8 is associated with anxiety in suicidal patients: genetic variation and decreased protein levels. <i>Acta Psychiatrica Scandinavica</i> , 2015, 131, 269-278.	4.5	62
36	Pharmacological elevation of endogenous kynurenic acid levels activates nigral dopamine neurons. <i>Amino Acids</i> , 2001, 20, 353-362.	2.7	60

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37	Clozapine modulates midbrain dopamine neuron firing via interaction with the NMDA receptor complex. <i>Synapse</i> , 2004, 52, 114-122.	1.2	60
38	Inhibition of firing rate and changes in the firing pattern of nigral dopamine neurons by $\beta$ -hydroxybutyric acid (GHBA) are specifically induced by activation of GABAB receptors. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1998, 357, 611-619.	3.0	59
39	Effects of COX-1 and COX-2 inhibitors on the firing of rat midbrain dopaminergic neurons—Possible involvement of endogenous kynurenic acid. <i>Synapse</i> , 2006, 59, 290-298.	1.2	58
40	Adaptive and Behavioral Changes in Kynurenine 3-Monooxygenase Knockout Mice: Relevance to Psychotic Disorders. <i>Biological Psychiatry</i> , 2017, 82, 756-765.	1.3	57
41	Cerebrospinal fluid kynurenines in multiple sclerosis; relation to disease course and neurocognitive symptoms. <i>Brain, Behavior, and Immunity</i> , 2016, 51, 47-55.	4.1	56
42	Altered chemokine levels in the cerebrospinal fluid and plasma of suicide attempters. <i>Psychoneuroendocrinology</i> , 2013, 38, 853-862.	2.7	53
43	Subchronic treatment with kynurenine and probenecid: effects on prepulse inhibition and firing of midbrain dopamine neurons. <i>Journal of Neural Transmission</i> , 2006, 113, 557-571.	2.8	51
44	Peripheral and central levels of kynurenic acid in bipolar disorder subjects and healthy controls. <i>Translational Psychiatry</i> , 2019, 9, 37.	4.8	51
45	Elevated levels of kynurenic acid change the dopaminergic response to amphetamine: implications for schizophrenia. <i>International Journal of Neuropsychopharmacology</i> , 2009, 12, 501.	2.1	47
46	Neonatal infection with neurotropic influenza A virus induces the kynurenine pathway in early life and disrupts sensorimotor gating in adult <i>Tap1</i> <sup>-/-</sup> mice. <i>International Journal of Neuropsychopharmacology</i> , 2010, 13, 475.	2.1	46
47	Peripheral and central kynurenine pathway abnormalities in major depression. <i>Brain, Behavior, and Immunity</i> , 2022, 101, 136-145.	4.1	46
48	CSF GABA is reduced in first-episode psychosis and associates to symptom severity. <i>Molecular Psychiatry</i> , 2018, 23, 1244-1250.	7.9	44
49	Prenatal Dexamethasone Impairs Behavior and the Activation of the BDNF Exon IV Promoter in the Paraventricular Nucleus in Adult Offspring. <i>Endocrinology</i> , 2008, 149, 6356-6365.	2.8	43
50	Activation of rat ventral tegmental area dopamine neurons by endogenous kynurenic acid: A pharmacological analysis. <i>Neuropharmacology</i> , 2007, 53, 918-924.	4.1	42
51	Direct effects of exercise on kynurenine metabolism in people with normal glucose tolerance or type 2 diabetes. <i>Diabetes/Metabolism Research and Reviews</i> , 2016, 32, 754-761.	4.0	39
52	Behavioral disturbances in adult mice following neonatal virus infection or kynurenine treatment—Role of brain kynurenic acid. <i>Brain, Behavior, and Immunity</i> , 2014, 36, 80-89.	4.1	37
53	Kynurenic Acid Levels in Cerebrospinal Fluid from Patients with Alzheimer's Disease or Dementia with Lewy Bodies. <i>International Journal of Tryptophan Research</i> , 2014, 7, IJTR.S13958.	2.3	36
54	Bioenergetics and synaptic plasticity as potential targets for individualizing treatment for depression. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 90, 212-220.	6.1	34

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55	Inhibitory Action of Clozapine on Rat Ventral Tegmental Area Dopamine Neurons Following Increased Levels of Endogenous Kynurenic Acid. <i>Neuropsychopharmacology</i> , 2003, 28, 1770-1777.	5.4	33
56	Inhibition of kynurenine aminotransferase II reduces activity of midbrain dopamine neurons. <i>Neuropharmacology</i> , 2016, 102, 42-47.	4.1	33
57	Nicotine-induced excitation of locus coeruleus neurons is blocked by elevated levels of endogenous kynurenic acid. <i>Synapse</i> , 2000, 37, 104-108.	1.2	32
58	Pharmacologically elevated levels of endogenous kynurenic acid prevent nicotine-induced activation of nigral dopamine neurons. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2001, 363, 21-27.	3.0	32
59	Tryptophan Metabolism Along the Kynurenine Pathway Downstream of Tollâ€like Receptor Stimulation in Peripheral Monocytes. <i>Scandinavian Journal of Immunology</i> , 2016, 84, 262-271.	2.7	32
60	Tryptophan, kynurenine, and kynurenine metabolites: Relationship to lifetime aggression and inflammatory markers in human subjects. <i>Psychoneuroendocrinology</i> , 2016, 71, 189-196.	2.7	32
61	The anaesthetic agent propofol interacts with GABAB-receptors: an electrophysiological study in rat. <i>Life Sciences</i> , 2003, 72, 2793-2801.	4.3	31
62	Cerebrospinal fluid kynurenic acid in male and female controls â€ Correlation with monoamine metabolites and influences of confounding factors. <i>Journal of Psychiatric Research</i> , 2007, 41, 144-151.	3.1	31
63	Twelve-week physical exercise does not have a long-lasting effect on kynurenines in plasma of depressed patients. <i>Neuropsychiatric Disease and Treatment</i> , 2017, Volume 13, 967-972.	2.2	30
64	Activation of noradrenergic locus coeruleus neurons by clozapine and haloperidol: involvement of glutamatergic mechanisms. <i>International Journal of Neuropsychopharmacology</i> , 2005, 8, 329-339.	2.1	29
65	Activation of nigral dopamine neurons by the selective GABA B -receptor antagonist SCH 50911. <i>Journal of Neural Transmission</i> , 1999, 106, 383-394.	2.8	28
66	Brain Age Prediction Reveals Aberrant Brain White Matter in Schizophrenia and Bipolar Disorder: A Multisample Diffusion Tensor Imaging Study. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2020, 5, 1095-1103.	1.5	28
67	A novel, robust method for quantification of multiple kynurenine pathway metabolites in the cerebrospinal fluid. <i>Bioanalysis</i> , 2020, 12, 379-392.	1.5	28
68	Repeated LPS Injection Induces Distinct Changes in the Kynurenine Pathway in Mice. <i>Neurochemical Research</i> , 2016, 41, 2243-2255.	3.3	27
69	The CD44 ligand hyaluronic acid is elevated in the cerebrospinal fluid of suicide attempters and is associated with increased bloodâ€brain barrier permeability. <i>Journal of Affective Disorders</i> , 2016, 193, 349-354.	4.1	27
70	CSF kynurenic acid and suicide risk in schizophrenia spectrum psychosis. <i>Psychiatry Research</i> , 2013, 205, 165-167.	3.3	26
71	Importance of kynurenine 3-monooxygenase for spontaneous firing and pharmacological responses of midbrain dopamine neurons: Relevance for schizophrenia. <i>Neuropharmacology</i> , 2018, 138, 130-139.	4.1	25
72	Acyclovir inhibition of IDO to decrease Tregs as a glioblastoma treatment adjunct. <i>Journal of Neuroinflammation</i> , 2010, 7, 44.	7.2	24

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73	Subchronic elevation of brain kynurenic acid augments amphetamine-induced locomotor response in mice. <i>Journal of Neural Transmission</i> , 2012, 119, 155-163.	2.8	24
74	Central levels of tryptophan metabolites in subjects with bipolar disorder. <i>European Neuropsychopharmacology</i> , 2021, 43, 52-62.	0.7	24
75	Increased number of monocytes and plasma levels of MCP-1 and YKL-40 in first-episode psychosis. <i>Acta Psychiatrica Scandinavica</i> , 2018, 138, 432-440.	4.5	20
76	Kynurenine 3-monooxygenase (KMO) polymorphisms in schizophrenia: An association study. <i>Schizophrenia Research</i> , 2011, 127, 270-272.	2.0	19
77	Screening for pathogenic neuronal autoantibodies in serum and CSF of patients with first-episode psychosis. <i>Translational Psychiatry</i> , 2021, 11, 566.	4.8	19
78	Kynurenic acid and psychotic symptoms and personality traits in twins with psychiatric morbidity. <i>Psychiatry Research</i> , 2017, 247, 105-112.	3.3	18
79	Differential effects on blood and cerebrospinal fluid immune protein markers and kynurenine pathway metabolites from aerobic physical exercise in healthy subjects. <i>Scientific Reports</i> , 2021, 11, 1669.	3.3	18
80	Effects of IDO1 and TDO2 inhibition on cognitive deficits and anxiety following LPS-induced neuroinflammation. <i>Acta Neuropsychiatrica</i> , 2020, 32, 43-53.	2.1	17
81	Quantification of Plasma Kynurenine Metabolites Following One Bout of Sprint Interval Exercise. <i>International Journal of Tryptophan Research</i> , 2020, 13, 117864692097824.	2.3	17
82	Inhibition of glucose-induced insulin secretion by a peripheral-type benzodiazepine receptor ligand (PK) Tj ETQq0 0.0 r gBT /Overlock 10	3.0	15
83	Chronic Antipsychotic Treatment in the Rat – Effects on Brain Interleukin-8 and Kynurenic Acid. <i>International Journal of Tryptophan Research</i> , 2015, 8, IJTR.S25915.	2.3	15
84	First-episode psychosis patients display increased plasma IL-18 that correlates with cognitive dysfunction. <i>Schizophrenia Research</i> , 2018, 195, 406-408.	2.0	15
85	Cerebrospinal fluid kynurenic acid in male patients with schizophrenia – correlation with monoamine metabolites. <i>Acta Neuropsychiatrica</i> , 2007, 19, 45-52.	2.1	14
86	Role of the NMDA-receptor in Prepulse Inhibition in the Rat. <i>International Journal of Tryptophan Research</i> , 2010, 3, IJTR.S4260.	2.3	14
87	Long distance ski racing is associated with lower long-term incidence of depression in a population based, large-scale study. <i>Psychiatry Research</i> , 2019, 281, 112546.	3.3	14
88	Excitation of nigral dopamine neurons by the GABAA receptor agonist muscimol is mediated via release of glutamate. <i>Life Sciences</i> , 2000, 67, 1901-1911.	4.3	13
89	Decreased levels of kynurenic acid in prefrontal cortex in a genetic animal model of depression. <i>Acta Neuropsychiatrica</i> , 2017, 29, 54-58.	2.1	13
90	Thalamic dopamine D2-receptor availability in schizophrenia: a study on antipsychotic-naive patients with first-episode psychosis and a meta-analysis. <i>Molecular Psychiatry</i> , 2022, 27, 1233-1240.	7.9	13

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91	LPS-induced cortical kynurenic acid and neurogranin-NFAT signaling is associated with deficits in stimulus processing during Pavlovian conditioning. <i>Journal of Neuroimmunology</i> , 2017, 313, 1-9.	2.3	12
92	GRK3 deficiency elicits brain immune activation and psychosis. <i>Molecular Psychiatry</i> , 2021, 26, 6820-6832.	7.9	12
93	EWS&EFLI1 impairs aryl hydrocarbon receptor activation by blocking tryptophan breakdown via the kynurenine pathway. <i>FEBS Letters</i> , 2016, 590, 2063-2075.	2.8	11
94	Physical Activity Is Associated With Lower Long-Term Incidence of Anxiety in a Population-Based, Large-Scale Study. <i>Frontiers in Psychiatry</i> , 2021, 12, 714014.	2.6	11
95	Plasma bilirubin levels are reduced in first-episode psychosis patients and associates to working memory and duration of untreated psychosis. <i>Scientific Reports</i> , 2021, 11, 7527.	3.3	9
96	Elevated endogenous GDNF induces altered dopamine signalling in mice and correlates with clinical severity in schizophrenia. <i>Molecular Psychiatry</i> , 2022, 27, 3247-3261.	7.9	9
97	Cerebrospinal fluid levels of sphingolipids associate with disease severity in first episode psychosis patients. <i>Schizophrenia Research</i> , 2018, 199, 438-441.	2.0	8
98	Lipopolysaccharide Increases Cortical Kynurenic Acid and Deficits in Reference Memory in Mice. <i>International Journal of Tryptophan Research</i> , 2019, 12, 117864691989116.	2.3	8
99	Increased peripheral levels of TARC/CCL17 in first episode psychosis patients. <i>Schizophrenia Research</i> , 2019, 210, 221-227.	2.0	8
100	Repeated administration of LPS exaggerates amphetamine-induced locomotor response and causes learning deficits in mice. <i>Journal of Neuroimmunology</i> , 2020, 349, 577401.	2.3	8
101	Synthesis and Preclinical Evaluation of 6- <sup>18</sup> F-Fluorine- $\beta$ -methyl-tryptophan, a Novel PET Tracer for Measuring Tryptophan Uptake. <i>ACS Chemical Neuroscience</i> , 2020, 11, 1756-1761.	3.5	8
102	Disrupted sensorimotor gating in first-episode psychosis patients is not affected by short-term antipsychotic treatment. <i>Schizophrenia Research</i> , 2021, 228, 118-123.	2.0	7
103	Identification of cerebrospinal fluid and serum metabolomic biomarkers in first episode psychosis patients. <i>Translational Psychiatry</i> , 2022, 12, .	4.8	6
104	Neurogranin as a potential synaptic marker in the cerebrospinal fluid of patients with a first episode psychosis. <i>Schizophrenia Research</i> , 2019, 208, 490-492.	2.0	5
105	Reply to: New Meta- and Mega-analyses of Magnetic Resonance Imaging Findings in Schizophrenia: Do They Really Increase Our Knowledge About the Nature of the Disease Process?. <i>Biological Psychiatry</i> , 2019, 85, e35-e39.	1.3	5
106	CSF levels of synaptosomal-associated protein 25 and synaptotagmin-1 in first-episode psychosis subjects. <i>IBRO Reports</i> , 2020, 8, 136-142.	0.3	5
107	Blockade of KAT II Facilitates LTP in Kynurenine 3-Monooxygenase Depleted Mice. <i>International Journal of Tryptophan Research</i> , 2021, 14, 117864692110413.	2.3	5
108	Twin study shows association between monocyte chemoattractant protein-1 and kynurenic acid in cerebrospinal fluid. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2020, 270, 933-938.	3.2	4

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109	Two-day fasting affects kynurenine pathway with additional modulation of short-term whole-body cooling: a quasi-randomised crossover trial. <i>British Journal of Nutrition</i> , 2023, 129, 992-999.	2.3	4
110	No association between cortical dopamine D2 receptor availability and cognition in antipsychotic-naïve first-episode psychosis. <i>NPJ Schizophrenia</i> , 2021, 7, 46.	3.6	3
111	P.3.b.004 Subchronic elevation of endogenous levels of kynurenic acid increase dopamine release in rat nucleus accumbens. <i>European Neuropsychopharmacology</i> , 2007, 17, S419-S420.	0.7	1
112	658. Metformin Enhances Antidepressant Response Rate to Ketamine in a Rodent Model of Antidepressant Treatment Resistance. <i>Biological Psychiatry</i> , 2017, 81, S266-S267.	1.3	1
113	Vitamin C and E Treatment Blocks Changes in Kynurenine Metabolism Triggered by Three Weeks of Sprint Interval Training in Recreationally Active Elderly Humans. <i>Antioxidants</i> , 2021, 10, 1443.	5.1	1
114	Nicotine-induced excitation of locus coeruleus neurons is blocked by elevated levels of endogenous kynurenic acid. <i>Synapse</i> , 2000, 37, 104-108.	1.2	1
115	P.3.d.012 The response of clozapine on midbrain dopamine neurons depends on endogenous concentration of kynurenic acid. <i>European Neuropsychopharmacology</i> , 2006, 16, S435-S436.	0.7	0
116	P.1.c.039 Increased midbrain dopaminergic firing by the competitive N-methyl-D-aspartate receptor antagonist SDZ 220581. <i>European Neuropsychopharmacology</i> , 2007, 17, S264-S265.	0.7	0
117	S.03.01 Do virus infections cause schizophrenia?. <i>European Neuropsychopharmacology</i> , 2009, 19, S178.	0.7	0
118	P.2.014 Neonatal influenza A infection potentiates amphetamine induced increase in locomotor activity in the adult mouse. <i>European Neuropsychopharmacology</i> , 2010, 20, S40.	0.7	0
119	Abstract 1162: Investigating the NAD metabolome in Ewing Sarcoma. , 2015, , .		0