

Christopher K Macgowan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

125
papers

2,465
citations

28
h-index

45
g-index

135
ext. papers

3,030
ext. citations

5
avg, IF

5.03
L-index

#	Paper	IF	Citations
125	Impact of fetal haemodynamics on surgical and neurodevelopmental outcomes in patients with Ebstein anomaly and tricuspid valve dysplasia.. <i>Cardiology in the Young</i> , 2022 , 1-12	1	0
124	Intrauterine growth restriction alters the activity of drug metabolising enzymes in the maternal-placental-fetal unit. <i>Life Sciences</i> , 2021 , 285, 120016	6.8	2
123	Sex differences in fetal Doppler parameters during gestation. <i>Biology of Sex Differences</i> , 2021 , 12, 26	9.3	1
122	An MRI approach to assess placental function in healthy humans and sheep. <i>Journal of Physiology</i> , 2021 , 599, 2573-2602	3.9	4
121	Wave reflections in the umbilical artery measured by Doppler ultrasound as a novel predictor of placental pathology. <i>EBioMedicine</i> , 2021 , 67, 103326	8.8	5
120	Determination of fetal heart rate short-term variation from umbilical artery Doppler waveforms. <i>Ultrasound in Obstetrics and Gynecology</i> , 2021 , 57, 70-74	5.8	1
119	Seeing the fetus from a DOHaD perspective: discussion paper from the advanced imaging techniques of DOHaD applications workshop held at the 2019 DOHaD World Congress. <i>Journal of Developmental Origins of Health and Disease</i> , 2021 , 12, 153-167	2.4	2
118	Understanding Early Hemophilic Arthropathy in Children and Adolescents Through MRI T Mapping. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 53, 827-837	5.6	2
117	Sex differences in modulation of fetoplacental vascular resistance in growth-restricted mouse fetuses following betamethasone administration: comparisons with human fetuses. <i>American Journal of Obstetrics & Gynecology MFM</i> , 2021 , 3, 100251	7.4	3
116	Fetal Flow Quantification in Great Vessels Using Motion-Corrected Radial Phase Contrast MRI: Comparison With Cartesian. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 53, 540-551	5.6	2
115	Human Fetal Blood Flow Quantification with Magnetic Resonance Imaging and Motion Compensation. <i>Journal of Visualized Experiments</i> , 2021 ,	1.6	1
114	Interpretation of Wave Reflections in the Umbilical Arterial Segment of the Feto-Placental Circulation: Computational Modeling of the Feto-Placental Arterial Tree. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 3647-3658	5	2
113	Sex differences in uterine artery Doppler during gestation in pregnancies complicated by placental dysfunction. <i>Biology of Sex Differences</i> , 2021 , 12, 19	9.3	3
112	Impact of resveratrol-mediated increase in uterine artery blood flow on fetal haemodynamics, blood pressure and oxygenation in sheep. <i>Experimental Physiology</i> , 2021 , 106, 1166-1180	2.4	2
111	Open or closed: Changes in ductus arteriosus flow patterns at birth using 4D flow MRI in newborn piglets. <i>Physiological Reports</i> , 2021 , 9, e14999	2.6	0
110	Redox ratio in the left ventricle of the growth restricted fetus is positively correlated with cardiac output. <i>Journal of Biophotonics</i> , 2021 , 14, e202100157	3.1	1
109	Impact of maternal late gestation undernutrition on surfactant maturation, pulmonary blood flow and oxygen delivery measured by magnetic resonance imaging in the sheep fetus. <i>Journal of Physiology</i> , 2021 , 599, 4705-4724	3.9	1

108	Normal human and sheep fetal vessel oxygen saturations by T2 magnetic resonance imaging. <i>Journal of Physiology</i> , 2020 , 598, 3259-3281	3.9	19
107	Non-Invasive Ultrasound Detection of Cerebrovascular Changes in a Mouse Model of Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2020 , 37, 2157-2168	5.4	1
106	Technique for comprehensive fetal hepatic blood flow assessment in sheep using 4D flow MRI. <i>Journal of Physiology</i> , 2020 , 598, 3555-3567	3.9	4
105	Wharton's jelly area and its association with placental morphometry and pathology. <i>Placenta</i> , 2020 , 94, 34-38	3.4	2
104	Quantification of Wave Reflection in the Human Umbilical Artery From Asynchronous Doppler Ultrasound Measurements. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 3749-3757	11.7	4
103	Differential gene responses 3 days following infarction in the fetal and adolescent sheep heart. <i>Physiological Genomics</i> , 2020 , 52, 143-159	3.6	1
102	The association between resting-state functional magnetic resonance imaging and aortic pulse-wave velocity in healthy adults. <i>Human Brain Mapping</i> , 2020 , 41, 2121-2135	5.9	12
101	Understanding Fetal Hemodynamics Using Cardiovascular Magnetic Resonance Imaging. <i>Fetal Diagnosis and Therapy</i> , 2020 , 47, 354-362	2.4	9
100	Simulation of semilunar valve function: computer-aided design, 3D printing and flow assessment with MR. <i>3D Printing in Medicine</i> , 2020 , 6, 2	5	5
99	Feasibility of ventricular volumetry by cardiovascular MRI to assess cardiac function in the fetal sheep. <i>Journal of Physiology</i> , 2020 , 598, 2557-2573	3.9	8
98	Umbilical vein infusion of prostaglandin I increases ductus venosus shunting of oxygen-rich blood but does not increase cerebral oxygen delivery in the fetal sheep. <i>Journal of Physiology</i> , 2020 , 598, 4957-4967	3.8	2
97	Motion robust respiratory-resolved 3D radial flow MRI and its application in neonatal congenital heart disease. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 535-548	4.4	5
96	The utility of MRI for measuring hematocrit in fetal anemia. <i>American Journal of Obstetrics and Gynecology</i> , 2020 , 222, 81.e1-81.e13	6.4	8
95	Ultrasound Detection of Abnormal Cerebrovascular Morphology in a Mouse Model of Sickle Cell Disease Based on Wave Reflection. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 3269-3278	3.5	4
94	Fetal hemodynamics and cardiac streaming assessed by 4D flow cardiovascular magnetic resonance in fetal sheep. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 8	6.9	29
93	Fetal XCMR: a numerical phantom for fetal cardiovascular magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 29	6.9	5
92	Differential Response to Injury in Fetal and Adolescent Sheep Hearts in the Immediate Post-myocardial Infarction Period. <i>Frontiers in Physiology</i> , 2019 , 10, 208	4.6	11
91	Reflected hemodynamic waves influence the pattern of Doppler ultrasound waveforms along the umbilical arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 316, H1105-H1112	5.2	12

90	Magnetic Resonance Imaging: A New Tool to Optimize the Prediction of Fetal Anemia?. <i>Fetal Diagnosis and Therapy</i> , 2019 , 46, 257-265	2.4	1
89	Feasibility of phase-contrast cine magnetic resonance imaging for measuring blood flow in the sheep fetus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019 , 317, R780-R792	3.2	16
88	Effect of maternal betamethasone administration on fetoplacental vascular resistance in the mouse. <i>Biology of Reproduction</i> , 2019 , 101, 823-831	3.9	5
87	Subcutaneous maternal resveratrol treatment increases uterine artery blood flow in the pregnant ewe and increases fetal but not cardiac growth. <i>Journal of Physiology</i> , 2019 , 597, 5063-5077	3.9	13
86	Non-invasive Measurement of Wave Reflections in the Human Umbilical Artery Using Ultrasound 2019 ,		1
85	Fetal Cardiac MRI: A Review of Technical Advancements. <i>Topics in Magnetic Resonance Imaging</i> , 2019 , 28, 235-244	2.3	16
84	Quantification of blood flow in the fetus with cardiovascular magnetic resonance imaging using Doppler ultrasound gating: validation against metric optimized gating. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 74	6.9	8
83	Dynamic MRI of a Large Fetal Cardiac Mass. <i>Radiology</i> , 2019 , 290, 288	20.5	6
82	Placental vascular abnormalities in the mouse alter umbilical artery wave reflections. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 316, H664-H672	5.2	12
81	Fetal brain sparing in a mouse model of chronic maternal hypoxia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019 , 39, 1172-1184	7.3	8
80	Feto- and utero-placental vascular adaptations to chronic maternal hypoxia in the mouse. <i>Journal of Physiology</i> , 2018 , 596, 3285-3297	3.9	18
79	Human umbilical cord blood relaxation times and susceptibility at 3 T. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 3194-3206	4.4	19
78	Preliminary Experience Using Motion Compensated CINE Magnetic Resonance Imaging to Visualise Fetal Congenital Heart Disease. <i>Circulation: Cardiovascular Imaging</i> , 2018 , 11, e007745	3.9	6
77	Multidimensional fetal flow imaging with cardiovascular magnetic resonance: a feasibility study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 77	6.9	16
76	Longitudinal Brain and Body Growth in Fetuses With and Without Transposition of the Great Arteries: Quantitative Volumetric Magnetic Resonance Imaging Study. <i>Circulation</i> , 2018 , 138, 1368-1370	16.7	11
75	Accelerated MRI of the fetal heart using compressed sensing and metric optimized gating. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 2125-2135	4.4	28
74	Relaxation properties of human umbilical cord blood at 1.5 Tesla. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1678-1690	4.4	35
73	Non-invasive evaluation of blood oxygen saturation and hematocrit from T and T relaxation times: In-vitro validation in fetal blood. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 2352-2359	4.4	31

72	A mouse model of antepartum stillbirth. <i>American Journal of Obstetrics and Gynecology</i> , 2017 , 217, 443.e1-443.e11		
71	Temporal and Spatial Variances in Arterial Spin-Labeling Are Inversely Related to Large-Artery Blood Velocity. <i>American Journal of Neuroradiology</i> , 2017 , 38, 1555-1561	4.4	14
70	Ultrasound detection of altered placental vascular morphology based on hemodynamic pulse wave reflection. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 312, H1021-H1029	5.2	12
69	Feasibility of detecting myocardial infarction in the sheep fetus using late gadolinium enhancement CMR imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 69	6.9	21
68	Motion compensated cine CMR of the fetal heart using radial undersampling and compressed sensing. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 29	6.9	31
67	New advances in fetal cardiovascular magnetic resonance imaging for quantifying the distribution of blood flow and oxygen transport: Potential applications in fetal cardiovascular disease diagnosis and therapy. <i>Echocardiography</i> , 2017 , 34, 1799-1803	1.5	15
66	Cerebral oxygen delivery is reduced in newborns with congenital heart disease. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016 , 152, 1095-103	1.5	47
65	Accelerated phase contrast measurements of fetal blood flow using compressed sensing. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18,	6.9	3
64	The absolute and relative sizes of the brains and bodies of fetuses with different forms of congenital heart disease and intrauterine growth restriction. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18,	6.9	2
63	High resolution multislice imaging of the fetal heart using iGRASP and MOG. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18,	6.9	78
62	Reduced combined ventricular output and increased oxygen extraction fraction in a fetus with complete heart block demonstrated by MRI. <i>HeartRhythm Case Reports</i> , 2016 , 2, 164-168	1	2
61	The hemodynamics of late-onset intrauterine growth restriction by MRI. <i>American Journal of Obstetrics and Gynecology</i> , 2016 , 214, 367.e1-367.e17	6.4	87
60	Response to Letter Regarding Article, "Reduced Fetal Cerebral Oxygen Consumption Is Associated With Smaller Brain Size in Fetuses With Congenital Heart Disease". <i>Circulation</i> , 2016 , 133, e8	16.7	1
59	MRI reveals hemodynamic changes with acute maternal hyperoxygenation in human fetuses with and without congenital heart disease. <i>Prenatal Diagnosis</i> , 2016 , 36, 274-81	3.2	27
58	Evaluation of cerebrovascular impedance and wave reflection in mouse by ultrasound. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 521-6	7.3	13
57	Cerebral oxygen delivery in newborns with congenital heart disease by phase contrast MRI. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	2
56	MRI reveals hemodynamic changes with acute maternal hyperoxygenation in human fetuses with and without congenital heart disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	3
55	Fetal blood flow measured using phase contrast MRI-comparison of image quality and flow volume at 1.5T with 3.0T. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78

54	MRI reveals increased superior vena caval blood flow in human fetuses with congenital heart disease, abnormal placental pathology and neonatal brain white matter changes. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	1
53	Reduced fetal cerebral oxygen consumption is associated with abnormal white matter in newborns with congenital heart disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	1
52	Fetal haemodynamic assessment in a case of late-onset intrauterine growth restriction by phase contrast MRI and T2 mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	3
51	Foetal blood flow measured using phase contrast cardiovascular magnetic resonance--preliminary data comparing 1.5 T with 3.0 T. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 30	6.9	18
50	Reduced fetal cerebral oxygen consumption is associated with smaller brain size in fetuses with congenital heart disease. <i>Circulation</i> , 2015 , 131, 1313-23	16.7	287
49	Maternal hyperoxygenation and foetal cardiac MRI in the assessment of the borderline left ventricle. <i>Cardiology in the Young</i> , 2015 , 25, 1214-7	1	19
48	MRI shows limited mixing between systemic and pulmonary circulations in foetal transposition of the great arteries: a potential cause of in utero pulmonary vascular disease. <i>Cardiology in the Young</i> , 2015 , 25, 737-44	1	22
47	Assessment of MRI parameters for studying brain development in newborns with congenital heart disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
46	Assessment of flow distribution in the mouse fetal circulation at late gestation by high-frequency Doppler ultrasound. <i>Physiological Genomics</i> , 2014 , 46, 602-14	3.6	16
45	Reference ranges of blood flow in the major vessels of the normal human fetal circulation at term by phase-contrast magnetic resonance imaging. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 663-70	3.9	103
44	Pulmonary artery pulsatility and effect on vessel diameter assessment in magnetic resonance imaging. <i>European Journal of Radiology</i> , 2014 , 83, 378-83	4.7	9
43	Brain sparing in fetal mice: BOLD MRI and Doppler ultrasound show blood redistribution during hypoxia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 1082-8	7.3	25
42	Cerebral arterial and venous blood flow in adolescent multiple sclerosis patients and age-matched controls using phase contrast MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 341-7	5.6	11
41	Fetal circulation in left-sided congenital heart disease measured by cardiovascular magnetic resonance: a case-control study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 65	6.9	38
40	No evidence for impairment of venous hemodynamics in children or young adults with pediatric-onset multiple sclerosis. <i>American Journal of Neuroradiology</i> , 2013 , 34, 2366-72	4.4	3
39	Dynamic imaging of the fetal heart using metric optimized gating. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 1598-607	4.4	33
38	Feasibility of quantification of the distribution of blood flow in the normal human fetal circulation using CMR: a cross-sectional study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, 79	6.9	74
37	Dynamic MRI of the fetal myocardium. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	1

36	Measurement of pulmonary arterial pulse wave reflection from single-slice phase-contrast and steady-state free precession MRI. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	78
35	Cardiopulmonary magnetic resonance imaging in children after lung transplantation: preliminary observations. <i>Journal of Heart and Lung Transplantation</i> , 2011 , 30, 1294-8	5.8	0
34	Delayed onset of tricuspid valve flow in repaired tetralogy of Fallot: an additional mechanism of diastolic dysfunction and interventricular dyssynchrony. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13, 43	6.9	14
33	Metric optimized gating for fetal cardiac MRI. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1304-14	4.4	59
32	Self-gated Fourier velocity encoding. <i>Magnetic Resonance Imaging</i> , 2010 , 28, 95-102	3.3	6
31	Phase-contrast magnetic resonance quantification of normal pulmonary venous return. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 29, 588-94	5.6	36
30	Regional pulmonary blood flow: Comparison of dynamic contrast-enhanced MR perfusion and phase-contrast MR. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 1249-54	4.4	5
29	Alteration of diffusion tensor parameters in postmortem brain. <i>Magnetic Resonance Imaging</i> , 2009 , 27, 865-70	3.3	12
28	Automated measurement and classification of pulmonary blood-flow velocity patterns using phase-contrast MRI and correlation analysis. <i>Magnetic Resonance Imaging</i> , 2009 , 27, 38-47	3.3	6
27	Imaging Pulmonary Microvascular Flow 2009 , 57-64		
26	Sildenafil acutely reverses the hypoxic pulmonary vasoconstriction response of the newborn pig. <i>Pediatric Research</i> , 2008 , 64, 251-5	3.2	7
25	Late gadolinium enhancement of the right ventricular myocardium: is it really different from the left ?. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2008 , 10, 20	6.9	24
24	Visualizing water clearance in the lung with MRI. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 230-5	4.4	1
23	Anatomical and functional evaluation of pulmonary veins in children by magnetic resonance imaging. <i>Journal of the American College of Cardiology</i> , 2007 , 49, 993-1002	15.1	75
22	Dose-related effect of sevoflurane on airway size and configuration. <i>Canadian Journal of Anaesthesia</i> , 2006 , 53, 26422-26422	3	
21	Magnetic resonance evaluation of pulmonary circulation in children. <i>Progress in Pediatric Cardiology</i> , 2006 , 22, 211-223	0.4	4
20	Three-dimensional tricuspid annular function provides insight into the mechanisms of tricuspid valve regurgitation in classic hypoplastic left heart syndrome. <i>Journal of the American Society of Echocardiography</i> , 2006 , 19, 391-402	5.8	45
19	The impact of patch augmentation on left atrioventricular valve dynamics in patients with atrioventricular septal defects: early and midterm follow-up. <i>Journal of the American Society of Echocardiography</i> , 2006 , 19, 1382-92	5.8	7

18	Effect of propofol anesthesia and continuous positive airway pressure on upper airway size and configuration in infants. <i>Anesthesiology</i> , 2006 , 105, 45-50	4.3	38
17	Extent and localization of changes in upper airway caliber with varying concentrations of sevoflurane in children. <i>Anesthesiology</i> , 2006 , 105, 1147-52; discussion 5A	4.3	33
16	Insight into normal mitral and tricuspid annular dynamics in pediatrics: a real-time three-dimensional echocardiographic study. <i>Journal of the American Society of Echocardiography</i> , 2005 , 18, 805-14	5.8	29
15	Real-time Fourier velocity encoding: an in vivo evaluation. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 21, 297-304	5.6	19
14	Hemodynamic evaluation of the peripheral pulmonary circulation by cine phase-contrast magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 22, 780-7	5.6	18
13	Optimization of 3D contrast-enhanced pulmonary magnetic resonance angiography in pediatric patients with congenital heart disease. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 207-12	4.4	12
12	In vivo MRI measurement of blood oxygen saturation in children with congenital heart disease. <i>Pediatric Radiology</i> , 2005 , 35, 179-85	2.8	28
11	Comparative imaging of differential pulmonary blood flow in patients with congenital heart disease: magnetic resonance imaging versus lung perfusion scintigraphy. <i>Pediatric Radiology</i> , 2005 , 35, 295-301	2.8	52
10	How is pulmonary arterial blood flow affected by pulmonary venous obstruction in children? A phase-contrast magnetic resonance study. <i>Pediatric Radiology</i> , 2005 , 35, 580-6	2.8	44
9	Effect of propofol and CPAP on airway size and configuration in infants. <i>Canadian Journal of Anaesthesia</i> , 2005 , 52, A58-A58	3	
8	An inductive method to measure mechanical excitation spectra for MRI elastography. <i>Concepts in Magnetic Resonance</i> , 2004 , 21B, 32-39		2
7	Observation of nonlinear shear wave propagation using magnetic resonance elastography. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 842-50	4.4	26
6	Differential regurgitation in branch pulmonary arteries after repair of tetralogy of Fallot: a phase-contrast cine magnetic resonance study. <i>Circulation</i> , 2003 , 107, 2938-43	16.7	82
5	Phase-contrast MR assessment of pulmonary venous blood flow in children with surgically repaired pulmonary veins. <i>Pediatric Radiology</i> , 2003 , 33, 607-13	2.8	37
4	Pulse-wave velocity measured in one heartbeat using MR tagging. <i>Magnetic Resonance in Medicine</i> , 2002 , 48, 115-21	4.4	29
3	Fast measurements of the motion and velocity spectrum of blood using MR tagging. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 461-9	4.4	5
2	Motion measurements from individual MR signals using volume localization. <i>Journal of Magnetic Resonance Imaging</i> , 1999 , 9, 670-8	5.6	1
1	Phase-encode reordering to minimize errors caused by motion. <i>Magnetic Resonance in Medicine</i> , 1996 , 35, 391-8	4.4	20

