

CITATION REPORT

List of articles citing

Investigation of human mitochondrial myopathies by phosphorus magnetic resonance spectroscopy

DOI: 10.1002/ana.410180205
Annals of Neurology, 1985, 18, 189-96.

Source: <https://exaly.com/paper-pdf/17683766/citation-report.pdf>

Version: 2024-04-25

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
262	The role of magnetic resonance spectroscopy in clinical medicine. <i>Magnetic Resonance Imaging</i> , 1985 , 3, 407-13	3.3	7
261	A mitochondrial encephalomyopathy. A combined 31P magnetic resonance and biochemical investigation. 1985 , 71, 105-18		61
260	The use of NMR spectroscopy for the understanding of disease. 1986 , 233, 640-5		243
259	Energetics of human muscle: exercise-induced ATP depletion. 1986 , 3, 44-54		299
258	Progressive myoclonus epilepsies: specific causes and diagnosis. 1986 , 315, 296-305		267
257	Phosphorus magnetic resonance spectroscopy of partially blocked muscle glycolysis. An in vivo study of phosphoglycerate mutase deficiency. <i>Archives of Neurology</i> , 1987 , 44, 614-7		33
256	An unusual metabolic myopathy: a malate-aspartate shuttle defect. 1987 , 82, 27-39		33
255	The biochemistry of human diseases as studied by 31P NMR in man and animal models. <i>Annals of the New York Academy of Sciences</i> , 1987 , 508, 300-8	6.5	13
254	The Value of 31P NMR in the Diagnosis and Monitoring the Course of Human Myopathies. <i>Annals of the New York Academy of Sciences</i> , 1987 , 508, 448-450	6.5	11
253	Genetic disorders of mitochondrial function. 1987 , 110, 255-9		9
252	Leigh syndrome, a mitochondrial encephalo(myo)pathy. A review of the literature. 1987 , 89, 217-30		89
251	Hypophosphatemia and respiratory failure: prolonged abnormal energy metabolism demonstrated by nuclear magnetic resonance spectroscopy. 1987 , 83, 1139-43		21
250	Magnetic resonance spectroscopy in the recognition of metabolic disease. 1987 , 10 Suppl 1, 147-58		4
249	Remarkable resistance of the nerve to ischemia: a reply. 1987 , 10, 183		2
248	Muscle energy metabolism in human phosphofructokinase deficiency as recorded by 31P nuclear magnetic resonance spectroscopy. <i>Annals of Neurology</i> , 1987 , 22, 46-51	9.4	56
247	Alterations of skeletal muscle metabolism in humans studied by phosphorus 31 magnetic resonance spectroscopy in congestive heart failure. 1988 , 62, 53E-57E		24
246	Applications of NMR spectroscopy to biological systems. 1988 , 8, 57-76		6

245	Metabolic changes in human muscle denervation: topical ³¹ P NMR spectroscopy studies. 1988 , 7, 373-83	48
244	Metabolic myopathy in canine muscle-type phosphofructokinase deficiency. 1988 , 11, 1260-5	39
243	Impact of hyperthermic regional perfusion therapy on cell metabolism of malignant melanoma monitored by ³¹ P MR spectroscopy. <i>Magnetic Resonance Imaging</i> , 1988 , 6, 335-40	3:3 29
242	The biochemical basis of mitochondrial diseases. 1988 , 20, 161-91	76
241	Chronic administration of the oral hypoglycaemic agent diphenyleioidonium to rats. An animal model of impaired oxidative phosphorylation (mitochondrial myopathy). 1988 , 37, 687-94	30
240	An animal model of mitochondrial myopathy: a biochemical and physiological investigation of rats treated in vivo with the NADH-CoQ reductase inhibitor, diphenyleioidonium. 1988 , 83, 335-47	23
239	Changes in cellular bioenergetic state following graded traumatic brain injury in rats: determination by phosphorus 31 magnetic resonance spectroscopy. 1988 , 5, 315-30	83
238	Ca ²⁺ -ATPase deficiency in a patient with an exertional muscle pain syndrome. 1988 , 51, 1425-33	40
237	Strategies for Obtaining Biochemical and Clinically Diagnostic Information from Human Subjects Using ³¹ P Magnetic Resonance Spectroscopy. 1988 , 28, 329-336	
236	Bioenergetic changes during contraction and recovery in diabetic rat skeletal muscle. 1989 , 256, E129-37	23
235	Mitochondrial dysfunction in myasthenia gravis. Report of a case. 1989 , 47, 355-8	6
234	Screening for mitochondrial cytopathies: the sub-anaerobic threshold exercise test (SATET). 1989 , 52, 1090-4	36
233	Brain phosphorus magnetic resonance spectroscopy in acute bacterial meningitis. <i>Archives of Neurology</i> , 1989 , 46, 994-6	11
232	Histochemische \square nderungen in Skelettmuskeln von rhabdomyolyse-empfindlichen Trabrennpferden nach Grenzbelastung. 1989 , 87, 1-11	11
231	Myoclonus epilepsy and ragged-red fibres (MERRF). 1. A clinical, pathological, biochemical, magnetic resonance spectrographic and positron emission tomographic study. 1989 , 112 (Pt 5), 1231-60	199
230	Evidence for abnormal Na ⁺ /H ⁺ antiport activity detected by phosphorus nuclear magnetic resonance spectroscopy in exercising skeletal muscle of patients with essential hypertension. 1990 , 79, 491-7	56
229	Complicated migraine studied by phosphorus magnetic resonance spectroscopy. 1990 , 10, 263-72	74
228	Phosphorus magnetic resonance spectroscopy of patients with mitochondrial cytopathies demonstrates decreased levels of brain phosphocreatine. <i>Annals of Neurology</i> , 1990 , 27, 626-30	9:4 86

227	Discriminant factor analysis of ³¹ P NMR spectroscopic data in myopathies. 1990 , 13, 216-27		9
226	Cytochrome c oxidase deficiency with acute onset and rapid recovery. 1990 , 6, 330-2		2
225	[Spectroscopy of phosphorus in nuclear magnetic resonance. General review of clinical applications to the study of human skeletal muscle]. 1991 , 12, 128-30, 133-8		
224	Denervation of the rabbit hind limb studied by ³¹ -phosphorus magnetic resonance spectroscopy. 1991 , 16, 537-45		13
223	Diagnosis of muscular glycogenosis by in vivo natural abundance ¹³ C NMR spectroscopy. 1991 , 1, 99-101		18
222	Kinetics of post-exercise phosphate transport in human skeletal muscle: an in vivo ³¹ P-MR spectroscopy study. 1991 , 176, 1204-9		19
221	The rate of phosphate transport during recovery from muscular exercise depends on cytosolic [H ⁺]. A ³¹ P-MR spectroscopy study in humans. 1991 , 178, 871-7		10
220	³¹ P-NMR study of different hypothyroid states in rat leg muscle. 1991 , 261, E706-12		2
219	Effect of insulin on intracellular pH and phosphate metabolism in human skeletal muscle in vivo. 1991 , 81, 123-8		22
218	Nuclear magnetic resonance spectroscopic investigations of the human myocardium. 1991 , 1, 300-4		5
217	In vivo magnetic resonance spectroscopy of brain and muscle in a type of mitochondrial encephalomyopathy (MERRF). <i>Annals of Neurology</i> , 1991 , 29, 435-8	9-4	29
216	Phosphorus magnetic resonance spectroscopy (³¹ P MRS) in neuromuscular disorders. <i>Annals of Neurology</i> , 1991 , 30, 90-7	9-4	102
215	Energetic metabolism in hypothyroid skeletal muscle, as studied by phosphorus magnetic resonance spectroscopy. 1992 , 74, 124-9		36
214	Proton efflux from rat skeletal muscle in vivo: changes in hypertension. 1992 , 82, 489-91		15
213	Chapter 19 The study of bioenergetics in vivo using nuclear magnetic resonance. 1992 , 463-481		1
212	TREATMENT OF EXPERIMENTAL NADH UBIQUINONE REDUCTASE DEFICIENCY WITH MENADIONE. 1992 , 115, 991-1000		5
211	TREATMENT OF EXPERIMENTAL NADH UBIQUINONE REDUCTASE DEFICIENCY WITH MENADIONE. 1992 , 115, 991-1000		8
210	Oral glucose lactate stimulation test in mitochondrial disease. 1992 , 8, 445-9		30

209	31P-NMR spectroscopy of skeletal muscle in Becker dystrophy and DMD/BMD carriers. Altered rate of phosphate transport. 1992 , 109, 188-95	47
208	A 31P-NMR study of muscle exercise metabolism in mdx mice: evidence for abnormal pH regulation. 1992 , 113, 108-13	30
207	Two-dimensional 31P-chemical shift imaging of intramuscular heterogeneity in exercising human forearm muscle. 1992 , 263, C357-64	26
206	Forearm P-31 Nuclear Magnetic Resonance Spectroscopy Studies in Oculopharyngeal Muscular Dystrophy. 1992 , 19, 174-179	10
205	No Effect of Blood Transfusion on Muscle Metabolism. 1992 ,	
204	In vivo 13C-NMR evaluation of glycogen content in a patient with glycogen storage disease. 1992 , 15, 723-6	8
203	Cellular energetics in hypothyroid muscle. 1992 , 22, 358-65	46
202	Bio-energetic changes in human gastrocnemius muscle 1-2 days after strenuous exercise. 1992 , 146, 11-4	6
201	Changes in high-energy phosphates in rat skeletal muscle during acute respiratory acidosis. 1992 , 146, 15-9	7
200	Brain energy metabolism studied by 31P-MR spectroscopy in a case of migraine with prolonged aura. 1992 , 86, 376-80	20
199	Muscle energy metabolism in female DMD/BMD carriers: a 31P-MR spectroscopy study. 1992 , 15, 344-8	35
198	Metabolic changes in reflex sympathetic dystrophy: a 31P NMR spectroscopy study. 1993 , 16, 367-73	74
197	Control of phosphocreatine resynthesis during recovery from exercise in human skeletal muscle. 1993 , 6, 66-72	177
196	The production, buffering and efflux of protons in human skeletal muscle during exercise and recovery. 1993 , 6, 73-83	109
195	In vivo assessment of mitochondrial functionality in human gastrocnemius muscle by 31P MRS. The role of pH in the evaluation of phosphocreatine and inorganic phosphate recoveries from exercise. 1993 , 6, 248-53	116
194	Quantitative analysis by 31P magnetic resonance spectroscopy of abnormal mitochondrial oxidation in skeletal muscle during recovery from exercise. 1993 , 6, 302-10	147
193	Evidence for mitochondrial dysfunction in patients with alternating hemiplegia of childhood. <i>Annals of Neurology</i> , 1993 , 33, 604-7	9-4 32
192	Experimental design of 31P MRS assessment of human forearm muscle function: restrictions imposed by functional anatomy. 1993 , 30, 634-40	17

191	31P NMR spectroscopy investigation of muscle metabolism in hemodialysis patients. 1993 , 43, 885-92	34
190	No evidence of mitochondrial abnormality in skeletal muscle of patients with iron-deficient anaemia. 1993 , 234, 149-54	10
189	Energy metabolism in muscle paresis and recovery studied by 31P-MR spectroscopy: a case report. 1993 , 14, 263-7	
188	Defect in the lipoyl-bearing protein X subunit of the pyruvate dehydrogenase complex in two patients with encephalomyelopathy. 1993 , 123, 915-20	30
187	Oral phosphate supplements reverse skeletal muscle abnormalities in a case of chronic fatigue with idiopathic renal hypophosphatemia. 1993 , 3, 223-5	12
186	Further impairment of muscle phosphate kinetics by lengthening exercise in DMD/BMD carriers. An in vivo 31P-NMR spectroscopy study. 1993 , 119, 65-73	26
185	Skeletal muscle bioenergetics in myotonic dystrophy. 1993 , 116, 193-200	31
184	Cellular energetics of dystrophic muscle. 1993 , 116, 201-6	110
183	Skeletal muscle metabolism during exercise and recovery in patients with respiratory failure. 1993 , 48, 486-90	34
182	Skeletal muscle bioenergetics in the chronic fatigue syndrome. 1993 , 56, 679-83	54
181	Calf Muscle Metabolism in Venous Insufficiency. 1993 , 8, 58-61	
180	Effect of tri-iodothyronine administration on skeletal muscle intracellular pH in the rat. 1993 , 84, 645-9	1
179	Control of intracellular concentrations of 'bioenergetic' metabolites in skeletal muscle. 1993 , 21, 177S	
178	Effect of chronic uraemia on skeletal muscle metabolism in man. 1993 ,	
177	Effects of cardiac transplantation on bioenergetic abnormalities of skeletal muscle in congestive heart failure. 1994 , 89, 1624-31	92
176	Brain and muscle energy metabolism studied in vivo by 31P-magnetic resonance spectroscopy in NARP syndrome. 1994 , 57, 1492-6	18
175	Comparisons of ATP turnover in human muscle during ischemic and aerobic exercise using 31P magnetic resonance spectroscopy. 1994 , 31, 248-58	107
174	Bioenergetics of skeletal muscle in mitochondrial myopathy. 1994 , 127, 198-206	85

173	A 31P magnetic resonance spectroscopy study of mitochondrial function in skeletal muscle of patients with Parkinson's disease. 1994 , 125, 77-81		58
172	Hypernatremic myopathy. 1994 , 122, 144-7		9
171	Spettroscopia RM del fosforo nello studio del metabolismo delle neoplasie intracraniche primitive. 1994 , 7, 145-150		
170	Metabolic acidosis is a potent stimulus for cellular inorganic phosphate generation in uraemia. 1995 , 88, 405-12		19
169	Skeletal muscle mitochondrial dysfunction in alternating hemiplegia of childhood. <i>Annals of Neurology</i> , 1995 , 38, 681-4	9.4	22
168	ATP production and mechanical work in exercising skeletal muscle: a theoretical analysis applied to 31P magnetic resonance spectroscopic studies of dialyzed uremic patients. 1995 , 33, 601-9		34
167	Twitch response of striated muscle in patients with progressive external ophthalmoplegia, mitochondrial myopathy and focal cytochrome c-oxidase deficiency. 1995 , 16, 159-66		3
166	Lipoic (thioctic) acid increases brain energy availability and skeletal muscle performance as shown by in vivo 31P-MRS in a patient with mitochondrial cytopathy. <i>Journal of Neurology</i> , 1995 , 242, 472-7	5.5	51
165	A relationship between impaired fetal growth and reduced muscle glycolysis revealed by 31P magnetic resonance spectroscopy. 1995 , 38, 1205-12		67
164	Bryostatins 1, a novel antineoplastic agent and protein kinase C activator, induces human myalgia and muscle metabolic defects: a 31P magnetic resonance spectroscopic study. 1995 , 72, 998-1003		35
163	Quasi-linear relationship between Gibbs free energy of ATP hydrolysis and power output in human forearm muscle. 1995 , 268, C1474-84		62
162	Short-term dichloroacetate treatment improves indices of cerebral metabolism in patients with mitochondrial disorders. <i>Neurology</i> , 1995 , 45, 1193-8	6.5	152
161	Familial myopathy with conspicuous depletion of mitochondria in muscle fibers: a morphologically distinct disease. 1995 , 5, 139-44		11
160	Epilepsia partialis continua associated with NADH-coenzyme Q reductase deficiency. 1995 , 129, 152-61		23
159	Abnormal brain and muscle energy metabolism shown by 31P-MRS in familial hemiplegic migraine. 1995 , 129, 214-22		60
158	In vivo evidence of abnormal mechanical and oxidative functions in the exercised muscle of dystrophic hamsters by 31P-NMR. 1995 , 133, 16-23		8
157	Reinnervation in clinically unaffected muscles of patients with prior paralytic poliomyelitis. Correlation between macroelectromyography and histology. <i>Annals of the New York Academy of Sciences</i> , 1995 , 753, 394-6	6.5	2
156	Autosomal dominant limb girdle myopathy with ragged-red fibers and cardiomyopathy. A pedigree study by in vivo 31P-MR spectroscopy indicating a multisystem mitochondrial defect. 1996 , 137, 20-7		9

155	Peripheral Muscle Metabolism Studied by MRS. 1996 ,		1
154	Effect of anaemia correction on skeletal muscle metabolism in patients with end-stage renal disease: 31P magnetic resonance spectroscopy assessment. 1996 , 73, 436-41		16
153	Effect of parathyroid hormone on rat skeletal muscle in vivo. 1996 , 72, 253-6		
152	Changes in energy metabolism of calf muscle in patients with intermittent claudication assessed by 31P magnetic resonance spectroscopy: a phase II open study. 1996 , 1, 241-5		24
151	Combined aerobic training and dichloroacetate improve exercise capacity and indices of aerobic metabolism in muscle cytochrome oxidase deficiency. <i>Neurology</i> , 1996 , 47, 529-34	6.5	68
150	Modification of carbonic anhydrase III activity by phosphate and phosphorylated metabolites. 1996 , 114, 283-289		8
149	The treatment of congenital lactic acidoses. 1996 , 19, 573-80		15
148	ADP recovery after a brief ischemic exercise in normal and diseased human muscle--a 31P MRS study. 1996 , 9, 165-72		57
147	Localization and amount of myoglobin and myoglobin mRNA in ragged-red fiber of patients with mitochondrial encephalomyopathy. 1996 , 19, 175-82		5
146	Impairment of muscle mitochondrial oxidative metabolism in McArdles's disease. 1996 , 19, 764-9		37
145	Magnetic resonance spectroscopy in congenital heart disease. 1996 , 75, 614-9		7
144	Inflammatory myopathies: issues in diagnosis and management. 1997 , 10, 200-7		17
143	Correlative MR imaging and 31P-MR spectroscopy study in sarcoglycan deficient limb girdle muscular dystrophy. 1997 , 7, 505-11		37
142	Abnormal oxidative metabolism in exercise intolerance of undetermined origin. 1997 , 7, 99-104		22
141	Skeletal muscle metabolism in myotonic dystrophy A 31P magnetic resonance spectroscopy study. 1997 , 120 (Pt 10), 1699-711		31
140	Ageing: Effects on oxidative function of skeletal muscle in vivo. <i>Molecular and Cellular Biochemistry</i> , 1997 , 174, 321-324	4.2	103
139	Magnetic resonance spectroscopy in vivo: applications in neurological disorders. 1997 , 18, 321-9		18
138	Muscle high-energy phosphates in central nervous system disorders. The phosphorus MRS experience. 1997 , 18, 353-7		7

137	In vivo skeletal muscle mitochondrial function in Leber's hereditary optic neuropathy assessed by 31P magnetic resonance spectroscopy. <i>Annals of Neurology</i> , 1997 , 42, 573-9	9.4	81
136	A 31P-magnetic resonance spectroscopy and biochemical study of the mo(vbr) mouse: potential model for the mitochondrial encephalomyopathies. 1997 , 20, 1352-9		7
135	A randomized, controlled trial of creatine monohydrate in patients with mitochondrial cytopathies. 1997 , 20, 1502-9		190
134	Use of P-31 magnetic resonance spectroscopy to detect metabolic abnormalities in muscles of patients with fibromyalgia. 1998 , 41, 406-13		94
133	Clinical, physiological, and histological features in a kindred with the T3271C melas mutation. 1998 , 21, 25-33		28
132	Heterogeneity in chronic fatigue syndrome: evidence from magnetic resonance spectroscopy of muscle. 1998 , 8, 204-9		52
131	Impaired aerobic glycolysis in muscle phosphofructokinase deficiency results in biphasic post-exercise phosphocreatine recovery in 31P magnetic resonance spectroscopy. 1998 , 8, 480-8		20
130	Functional evaluation techniques in mitochondrial disorders. 1998 , 39, 65-71		26
129	Skeletal Muscle Abnormalities in Patients With Fibromyalgia. <i>American Journal of the Medical Sciences</i> , 1998 , 315, 351-358	2.2	
128	Normal in vivo skeletal muscle oxidative metabolism in sporadic inclusion body myositis assessed by 31P-magnetic resonance spectroscopy. 1998 , 121 (Pt 11), 2119-26		33
127	Phase I trial of the selective mitochondrial toxin MKT077 in chemo-resistant solid tumours. 1999 , 10, 923-7		84
126	Skeletal muscle phosphocreatine recovery in exercise-trained humans is dependent on O ₂ availability. 1999 , 86, 2013-8		228
125	Reduced cytosolic acidification during exercise suggests defective glycolytic activity in skeletal muscle of patients with Becker muscular dystrophy. An in vivo 31P magnetic resonance spectroscopy study. 1999 , 122 (Pt 1), 121-30		53
124	Direct measurement of high-energy phosphate compounds in patients with neuromuscular disease. 1999 , 22, 1228-33		98
123	Fitting cytosolic ADP recovery after exercise with a step response function. 1999 , 41, 926-32		13
122	31P MRS studies of exercising human muscle at high temporal resolution. 1999 , 41, 1145-51		16
121	[Muscle, fatigue, sports and infection]. 1999 , 20, 794-803		2
120	Molecular aspects of magnetic resonance imaging and spectroscopy. 1999 , 20, 185-318		23

119	Spinocerebellar ataxia type 6: evidence for a strong founder effect among German families. <i>Neurology</i> , 1999 , 52, 849-51	6.5	29
118	Skeletal Muscle Dysfunction in Chronic Obstructive Pulmonary Disease. 1999 , 159, S2-S40		46
117	Insights into muscle diseases gained by phosphorus magnetic resonance spectroscopy. 2000 , 23, 1316-34		89
116	Sympathetic denervation of the upper limb improves forearm exercise performance and skeletal muscle bioenergetics. 2000 , 101, 2716-20		15
115	Clinical utility of muscle MR spectroscopy. 2000 , 4, 481-502		36
114	Regional differences of metabolism in human masseter muscle by two-dimensional ³¹ P-chemical shift imaging. 2000 , 79, 85-9		8
113	Muscle responses to exercise in health and disease. 2000 , 18, 15-34		7
112	MR spectroscopy and imaging in metabolic myopathies. 2000 , 18, 35-52		29
111	ATP, phosphocreatine and lactate in exercising muscle in mitochondrial disease and McArdle's disease. 2001 , 11, 370-5		15
110	[Peripheral muscles in COPD: deconditioning or myopathy?]. 2001 , 37, 82-7		3
109	[Assessment of peripheral muscle function]. 2001 , 37, 317-23		1
108	Modeling in vivo recovery of intracellular pH in muscle to provide a novel index of proton handling: application to the diagnosis of mitochondrial myopathy. 2001 , 46, 870-8		15
107	Creatine transporter and mitochondrial creatine kinase protein content in myopathies. 2001 , 24, 682-8		71
106	Mitochondrial dysfunction and neuromuscular disease. 2001 , 24, 170-91		77
105	Time averaging and fitting of nonlinear metabolic changes: the issue of the time index choice applied to ³¹ P MRS investigation of muscle energetics. 2001 , 149, 1-7		5
104	Brain activation in normal subjects and in patients affected by mitochondrial disease without clinical central nervous system involvement: a phosphorus magnetic resonance spectroscopy study. 2001 , 21, 85-91		53
103	Skeletal muscle metabolism in overweight and post-overweight women: an isometric exercise study using (³¹)P magnetic resonance spectroscopy. 2001 , 25, 1309-15		40
102	Mitochondrial disease: a pulmonary and critical-care medicine perspective. 2001 , 120, 634-48		42

101	Mitochondrial dysfunction in Friedreich's ataxia. 2001 , 10, 263-70		14
100	Mitochondrial dysfunction in Friedreich's ataxia: from pathogenesis to treatment perspectives. 2002 , 36, 461-6		24
99	Metabolic myopathies and physical activity: when fatigue is more than simple exertion. 2002 , 30, 37-46		3
98	Resting oxygen consumption and in vivo ADP are increased in myopathy due to complex I deficiency. <i>Neurology</i> , 2002 , 58, 1088-93	6.5	11
97	Reduced oxidative phosphorylation and proton efflux suggest reduced capillary blood supply in skeletal muscle of patients with dermatomyositis and polymyositis: a quantitative ³¹ P-magnetic resonance spectroscopy and MRI study. 2002 , 125, 1635-45		75
96	A forearm exercise screening test for mitochondrial myopathy. <i>Neurology</i> , 2002 , 58, 1533-8	6.5	45
95	Chapter 7 Current and Future Prospects for the Treatment of Mitochondrial Disorders. 2002 , 26, 213-227		1
94	Triacylglycerol infusion does not improve hyperlactemia in resting patients with mitochondrial myopathy due to complex I deficiency. 2002 , 75, 228-36		13
93	Application of NMR spectroscopy to monitoring MELAS treatment: a case report. 2002 , 25, 593-600		15
92	Abstracts from the Workshop "Non Invasive Investigation of Muscle Function" Marseille (France), October 4 th , 2001. 2002 , 14, 63-212		
91	Non Invasive Investigation of Muscle Function Marseille (France), October 4 th , 2001. 2002 , 14, 61-212		
90	Unusual imaging findings in progressive myoclonus epilepsy. 2001 , 42, 430-2		4
89	Overexpressions of myoglobin and antioxidant enzymes in ragged-red fibers of skeletal muscle from patients with mitochondrial encephalomyopathy. 2003 , 28, 484-92		24
88	Biochemical characterization of muscle tissue of limb girdle muscular dystrophy: an ¹ H and ¹³ C NMR study. 2003 , 16, 213-23		13
87	Skeletal muscle metabolism in Duchenne muscular dystrophy (DMD): an in-vitro proton NMR spectroscopy study. <i>Magnetic Resonance Imaging</i> , 2003 , 21, 145-53	3.3	75
86	Roles for Imaging in Understanding the Pathophysiology, Clinical Evaluation, and Management of Patients with Mitochondrial Disease. 2003 , 13, 293-302		10
85	Influence of creatine monohydrate ingestion on muscle metabolites and intense exercise capacity in individuals with multiple sclerosis. 2003 , 84, 1206-10		9
84	Effects of carnitine supplementation on muscle metabolism by the use of magnetic resonance spectroscopy and near-infrared spectroscopy in end-stage renal disease. 2004 , 97, c41-8		27

83	Abnormal blood lactate accumulation after exercise in patients with multiple mitochondrial DNA deletions and minor muscular symptoms. 2004 , 24, 109-15		13
82	Attenuation of free radical production and paracrystalline inclusions by creatine supplementation in a patient with a novel cytochrome b mutation. 2004 , 29, 537-47		41
81	High-energy phosphate metabolism during incremental calf exercise in humans measured by 31 phosphorus magnetic resonance spectroscopy (31P MRS). <i>Magnetic Resonance Imaging</i> , 2004 , 22, 109-15 ³⁻³		17
80	[Diagnostic and management protocol for patients with muscular exercise intolerance]. 2004 , 160, 1102-12		
79	The mono-exponential pattern of phosphocreatine recovery after muscle exercise is a particular case of a more complex behaviour. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004 , 1608, 131-9	4.6	16
78	In vivo magnetic resonance spectroscopy in the evaluation of mitochondrial disorders. 2004 , 4, 491-501		5
77	Creatine has no beneficial effect on skeletal muscle energy metabolism in patients with single mitochondrial DNA deletions: a placebo-controlled, double-blind 31P-MRS crossover study. 2005 , 12, 300-9		51
76	The influence of tissue blood flow volume on energy metabolism in masseter muscles. 2005 , 23, 166-73		7
75	Magnetic resonance spectroscopy in patients with MELAS. 2005 , 229-230, 131-9		48
74	High-energy phosphate metabolism in the calf muscle during moderate isotonic exercise under different degrees of cuff compression: a phosphorus 31 magnetic resonance spectroscopy study. 2005 , 42, 259-67		11
73	A Welfare State Paradox: State Interventions and Women's Employment Opportunities in 22 Countries. 2006 , 111, 1910-1949		321
72	Friedreich's ataxia: from disease mechanisms to therapeutic interventions. 2006 , 8, 438-43		64
71	Creatine Monohydrate as a Therapeutic Aid in Muscular Dystrophy. 2006 , 64, 80-88		25
70	Mitochondrial dysfunction and migraine: evidence and hypotheses. 2006 , 26, 361-72		124
69	Muscle metabolism in patients with polymyositis simultaneously evaluated by using 31P-magnetic resonance spectroscopy and near-infrared spectroscopy. 2007 , 61, 684-9		10
68	Dynamic MRS and MRI of skeletal muscle function and biomechanics. 2006 , 19, 927-53		103
67	Aerobic exercise and muscle metabolism in patients with mitochondrial myopathy. 2006 , 33, 524-31		55
66	Noninvasive diagnosis of mitochondrial dysfunction in HAART-related hyperlactatemia. 2006 , 42, 584-5		7

65	Investigation of muscle bioenergetics in the Marfan syndrome indicates reduced metabolic efficiency. 2007 , 9, 709-17		8
64	Intersubject differences in the effect of acidosis on phosphocreatine recovery kinetics in muscle after exercise are due to differences in proton efflux rates. 2007 , 293, C228-37		67
63	31P MR spectroscopy and in vitro markers of oxidative capacity in type 2 diabetes patients. 2006 , 19, 321-31		25
62	31P-MRS of skeletal muscle is not a sensitive diagnostic test for mitochondrial myopathy. <i>Journal of Neurology</i> , 2007 , 254, 29-37	5.5	40
61	Multinuclear magnetic resonance spectroscopy for in vivo assessment of mitochondrial dysfunction in Parkinson's disease. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1147, 206-20	6.5	48
60	Comparison of phosphocreatine concentration in the human masseter and medial pterygoid muscles by 31P-CSI. <i>Journal of Oral Rehabilitation</i> , 2008 , 28, 1075-1079	3.4	
59	Structural evidence for co-evolution of the regulation of contraction and energy production in skeletal muscle. <i>Journal of Molecular Biology</i> , 2008 , 377, 623-9	6.5	11
58	Phosphorus-31 magnetic resonance spectroscopy of skeletal muscle in maternally inherited diabetes and deafness A3243G mitochondrial mutation carriers. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 29, 127-31	5.6	7
57	Bio-energetic impairment in human calf muscle in thyroid disorders: a 31P MRS study. <i>Magnetic Resonance Imaging</i> , 2010 , 28, 683-9	3.3	26
56	Oscillations in energy metabolism. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010 , 1797, 1353-61	4.6	23
55	A plasma signature of human mitochondrial disease revealed through metabolic profiling of spent media from cultured muscle cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 1571-5	11.5	109
54	[Phosphorus magnetic resonance spectroscopy: Brain pathologies applications]. <i>Journal of Neuroradiology</i> , 2010 , 37, 73-82	3.1	4
53	P-31 magnetic resonance spectroscopy. A tool for diagnostic purposes and pathophysiological insights in muscle diseases. <i>Reumatismo</i> , 2004 , 56, 9-14	1.1	10
52	Defective mitochondrial adenosine triphosphate production in skeletal muscle from patients with dominant optic atrophy due to OPA1 mutations. <i>Archives of Neurology</i> , 2011 , 68, 67-73		32
51	A possible role for mitochondrial dysfunction in migraine. <i>Molecular Genetics and Genomics</i> , 2012 , 287, 837-44	3.1	45
50	Decreased frontal lobe phosphocreatine levels in methamphetamine users. <i>Drug and Alcohol Dependence</i> , 2013 , 129, 102-9	4.9	27
49	MR Spectroscopy and Spectroscopic Imaging for Evaluation of Skeletal Muscle Metabolism: Basics and Applications in Metabolic Diseases. <i>Medical Radiology</i> , 2013 , 135-163	0.2	
48	MITOCHONDRIA: investigation of in vivo muscle mitochondrial function by 31P magnetic resonance spectroscopy. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 50, 67-72	5.6	28

47	Mitochondrial dysfunctions in myalgic encephalomyelitis/chronic fatigue syndrome explained by activated immuno-inflammatory, oxidative and nitrosative stress pathways. <i>Metabolic Brain Disease</i> , 2014 , 29, 19-36	3.9	82
46	Quantifying Metabolite Ratios and Concentrations by Non- 1H MRS. 2015 , 611-626		
45	Quantification of skeletal muscle mitochondrial function by 31P magnetic resonance spectroscopy techniques: a quantitative review. <i>Acta Physiologica</i> , 2015 , 213, 107-44	5.6	92
44	MRI assessment of regional differences in phosphorus-31 metabolism and morphological abnormalities of the foot muscles in diabetes. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 44, 1132-1142	5.6	6
43	Quantifying Skeletal Muscle Mitochondrial Function In Vivo by 31P Magnetic Resonance Spectroscopy. 2018 , 443-456		1
42	Unexplained exertional intolerance associated with impaired systemic oxygen extraction. <i>European Journal of Applied Physiology</i> , 2019 , 119, 2375-2389	3.4	10
41	Post-exercise intramuscular O supply is tightly coupled with a higher proximal-to-distal ATP synthesis rate in human tibialis anterior. <i>Journal of Physiology</i> , 2021 , 599, 1533-1550	3.9	3
40	Exercise Testing, Physical Training and Fatigue in Patients with Mitochondrial Myopathy Related to mtDNA Mutations. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	2
39	The Application of Creatine Supplementation in Medical Rehabilitation. <i>Nutrients</i> , 2021 , 13,	6.7	7
38	Impaired aerobic capacity and premature fatigue preceding muscle weakness in the skeletal muscle Tfam-knockout mouse model. <i>DMM Disease Models and Mechanisms</i> , 2021 , 14,	4.1	1
37	31P Magnetic Resonance Spectroscopy Studies of Skeletal Muscle: New Insights into the Pathophysiology of Congestive Heart Failure. 1993 , 143-152		1
36	Quantitative measurement of oxygen consumption and forearm blood flow in patients with mitochondrial myopathies. <i>Advances in Experimental Medicine and Biology</i> , 1999 , 471, 313-9	3.6	7
35	Ageing: Effects on oxidative function of skeletal muscle in vivo. 1997 , 321-324		2
34	Phosphorus Magnetic Resonance Spectroscopy (31P NMR) as a Tool for in Vivo Monitoring of Mitochondrial Muscle Disorders. 1989 , 183-199		3
33	Control of Mitochondrial Energy Production in Vivo. 1989 , 373-381		6
32	Magnetic Resonance Spectroscopy. 1990 , 55-65		3
31	Creatine Supplementation in Mitochondrial Cytopathies. <i>Medical Science Symposia Series</i> , 2000 , 91-100		2
30	Mitochondrial Diseases: Noninvasive Approaches. <i>Current Topics in Bioenergetics</i> , 1994 , 17, 99-126		1

29	Competition between nucleoside diphosphates and triphosphates at the catalytic and allosteric sites of phosphorylase kinase.. <i>Journal of Biological Chemistry</i> , 1988 , 263, 5543-5549	5.4	9
28	Skeletal muscle abnormalities in patients with fibromyalgia. <i>American Journal of the Medical Sciences</i> , 1998 , 315, 351-8	2.2	27
27	Interstitial pH in human skeletal muscle during and after dynamic graded exercise. <i>Journal of Physiology</i> , 2001 , 537, 993-8	3.9	56
26	Muscle oxidative phosphorylation quantitation using creatine chemical exchange saturation transfer (CrCEST) MRI in mitochondrial disorders. <i>JCI Insight</i> , 2016 , 1, e88207	9.9	26
25	Effects of thyroid hormones on skeletal muscle bioenergetics. In vivo phosphorus-31 magnetic resonance spectroscopy study of humans and rats. <i>Journal of Clinical Investigation</i> , 1988 , 81, 1695-701	15.9	76
24	31P-magnetic resonance spectroscopy assessment of subnormal oxidative metabolism in skeletal muscle of renal failure patients. <i>Journal of Clinical Investigation</i> , 1993 , 91, 420-4	15.9	47
23	Metabolic abnormalities in skeletal muscle of patients receiving zidovudine therapy observed by 31P in vivo magnetic resonance spectroscopy. <i>Journal of Clinical Investigation</i> , 1995 , 96, 126-31	15.9	43
22	Sympathetic activation in exercise is not dependent on muscle acidosis. Direct evidence from studies in metabolic myopathies. <i>Journal of Clinical Investigation</i> , 1998 , 101, 1654-60	15.9	50
21	Creatine monohydrate increases strength in patients with neuromuscular disease. <i>Neurology</i> , 1999 , 52, 854-7	6.5	155
20	Bioenergetics of the calf muscle in Friedreich ataxia patients measured by 31P-MRS before and after treatment with recombinant human erythropoietin. <i>PLoS ONE</i> , 2013 , 8, e69229	3.7	16
19	Altered Energetics of Exercise Explain Risk of Rhabdomyolysis in Very Long-Chain Acyl-CoA Dehydrogenase Deficiency. <i>PLoS ONE</i> , 2016 , 11, e0147818	3.7	28
18	POST-POLIO FATIGUE: Ap 31P MAGNETIC RESONANCE SPECTROSCOPY INVESTIGATION. <i>Orthopedics</i> , 1991 , 14, 1263-1267	1.5	7
17	Falldarstellungen beim Kearns-Sayre- und MELAS-Syndrom. <i>Verhandlungen Der Deutschen Gesellschaft Für Neurologie</i> , 1989 , 876-880		
16	Nuclear Magnetic Resonance and Cell pH with a Focus on Brain pH. 1990 , 485-505		
15	31P Magnetic Resonance Spectroscopy of Muscle: The Missing Link Between Physiology and Sports Practice. 1991 , 185-199		
14	31P MR Spectroscopic Studies of Metabolic Lesions in the Liver. 1992 , 125-136		
13	Magnetic Resonance Spectroscopy of Skeletal Muscle. 1993 , 23-43		
12	Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy in the Study of Mitochondrial Metabolism. 1993 , 146-161		

- 11 Endocrine Myopathies. **1996**, 269-281 ○
- 10 Exercise Intolerance and Mitochondriopathies. **1999**, 67-73
- 9 P-31 Magnetic Resonance Spectroscopy of Metabolic Abnormalities in Pathological Fatigue. **1999**, 17-32
- 8 Spectroscopie par résonance magnétique : techniques et principales applications cliniques. **2018**, 769-782.e4
- 7 Mitochondrial Disease. **2005**, 297-308
- 6 Ageing: effects on oxidative function of skeletal muscle in vivo. *Molecular and Cellular Biochemistry*, **1997**, 174, 321-4 4.2 4○
- 5 MRS in musculoskeletal disease. 243-255
- 4 Magnetic field therapy enhances muscle mitochondrial bioenergetics and attenuates systemic ceramide levels following ACL reconstruction: Southeast Asian randomized-controlled pilot trial. **2022**, 35, 99-112 ○
- 3 Cyclosporin A delays the terminal disease stage in TfamKO mice without improving mitochondrial energy production. ○
- 2 Is the fundamental pathology in Duchenne's muscular dystrophy caused by a failure of glycogenolysis/glycolysis in costameres?. **2023**, 102, ○
- 1 Magnetic Resonance Spectroscopy of the Musculoskeletal System. **1986**, 24, 321-331 ○