

CITATION REPORT

List of articles citing

Regulation of the mPTP by SIRT3-mediated deacetylation of CypD at lysine 166 suppresses age-related cardiac hypertrophy

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|-----|---|-----|-----------|
| 436 | Fine tuning our cellular factories: sirtuins in mitochondrial biology. 2011 , 13, 621-6 | | 74 |
| 435 | Prolyl cis/trans isomerase signalling pathways in cancer. 2011 , 11, 281-7 | | 77 |
| 434 | The SirT3 divining rod points to oxidative stress. 2011 , 42, 561-8 | | 175 |
| 433 | Protective effects and mechanisms of sirtuins in the nervous system. 2011 , 95, 373-95 | | 156 |
| 432 | Mammalian sirtuins and energy metabolism. 2011 , 7, 575-87 | | 141 |
| 431 | Reduced mitochondrial function in obesity-associated fatty liver: SIRT3 takes on the fat. <i>Aging</i> , 2011 , 3, 175-8 | 5.6 | 51 |
| 430 | Protection of the heart against ischemia/reperfusion by silent information regulator 1. 2011 , 21, 27-32 | | 50 |
| 429 | SIRT3 and cancer: tumor promoter or suppressor?. 2011 , 1816, 80-8 | | 85 |
| 428 | Hepatic FoxOs regulate lipid metabolism via modulation of expression of the nicotinamide phosphoribosyltransferase gene. 2011 , 286, 14681-90 | | 102 |
| 427 | Mitochondria and PGC-1 β in Aging and Age-Associated Diseases. 2011 , 2011, 810619 | | 77 |
| 426 | Emerging characterization of the role of SIRT3-mediated mitochondrial protein deacetylation in the heart. 2011 , 301, H2191-7 | | 45 |
| 425 | Friedreich's ataxia reveals a mechanism for coordinate regulation of oxidative metabolism via feedback inhibition of the SIRT3 deacetylase. 2012 , 21, 2688-97 | | 49 |
| 424 | Resveratrol stimulates cortisol biosynthesis by activating SIRT-dependent deacetylation of P450 _{11β} . 2012 , 153, 3258-68 | | 22 |
| 423 | Suppression of ERR targets by a PPAR γ /Sirt1 complex in the failing heart. 2012 , 11, 856-64 | | 24 |
| 422 | The intersection between aging and cardiovascular disease. 2012 , 110, 1097-108 | | 595 |
| 421 | Mitochondrial Protein Acetylation and Sirtuin-Mediated Deacetylation. 2012 , 245-267 | | |
| 420 | Mitochondrial Regulation by Protein Acetylation. 2012 , 269-298 | | 1 |

| | | |
|-----|--|--------|
| 419 | Direct renin inhibition exerts an anti-hypertrophic effect associated with improved mitochondrial function in post-infarction heart failure in diabetic rats. 2012 , 29, 841-50 | 39 |
| 418 | Overview of pyridine nucleotides review series. 2012 , 111, 604-10 | 55 |
| 417 | Sirtuins and pyridine nucleotides. 2012 , 111, 642-56 | 31 |
| 416 | Autophagy and cardiovascular aging: lesson learned from rapamycin. 2012 , 11, 2092-9 | 68 |
| 415 | Mitochondrial metabolism, sirtuins, and aging. 2012 , 4, | 150 |
| 414 | The role of SIRT3 in mitochondrial homeostasis and cardiac adaptation to hypertrophy and aging. 2012 , 52, 520-5 | 50 |
| 413 | Sirtuin 1 and sirtuin 3: physiological modulators of metabolism. 2012 , 92, 1479-514 | 417 |
| 412 | Sirtuin biology and relevance to diabetes treatment. 2012 , 2, 243-257 | 24 |
| 411 | Regulation and protection of mitochondrial physiology by sirtuins. <i>Mitochondrion</i> , 2012 , 12, 66-76 | 4.9 28 |
| 410 | SIRT3, a pivotal actor in mitochondrial functions: metabolism, cell death and aging. 2012 , 444, 1-10 | 178 |
| 409 | Cardiac aging: from molecular mechanisms to significance in human health and disease. 2012 , 16, 1492-526 | 188 |
| 408 | Can exercise teach us how to treat heart disease?. 2012 , 126, 2625-35 | 71 |
| 407 | Emerging beneficial roles of sirtuins in heart failure. 2012 , 107, 273 | 102 |
| 406 | Mechanism-based Modulator Discovery for Sirtuin-catalyzed Deacetylation Reaction. 2012 , 13, 132-154 | 1 |
| 405 | FOXOs and sirtuins in vascular growth, maintenance, and aging. 2012 , 110, 1238-51 | 115 |
| 404 | Receptor-interacting protein (RIP) and Sirtuin-3 (SIRT3) are on opposite sides of anoikis and tumorigenesis. 2012 , 118, 5800-10 | 26 |
| 403 | Mitochondria and cardiovascular aging. 2012 , 110, 1109-24 | 275 |
| 402 | Growth factors, nutrient signaling, and cardiovascular aging. 2012 , 110, 1139-50 | 62 |

| | | |
|-----|---|-----|
| 401 | Contribution of impaired mitochondrial autophagy to cardiac aging: mechanisms and therapeutic opportunities. 2012 , 110, 1125-38 | 169 |
| 400 | Ischemic preconditioning: the role of mitochondria and aging. 2012 , 47, 1-7 | 62 |
| 399 | Facts and controversies in our understanding of how caloric restriction impacts the mitochondrion. 2013 , 48, 1075-84 | 29 |
| 398 | The role of polyphenols in the modulation of sirtuins and other pathways involved in Alzheimer's disease. 2013 , 12, 867-83 | 81 |
| 397 | Mitochondrial complex I deficiency increases protein acetylation and accelerates heart failure. 2013 , 18, 239-50 | 280 |
| 396 | Changes in the mitochondrial permeability transition pore in aging and age-associated diseases. 2013 , 134, 1-9 | 42 |
| 395 | NAD ⁺ acts on mitochondrial SirT3 to prevent axonal caspase activation and axonal degeneration. 2013 , 27, 4712-22 | 31 |
| 394 | Sirtuin-3 (SIRT3) and the Hallmarks of Cancer. 2013 , 4, 164-71 | 41 |
| 393 | Oxidative stress response elicited by mitochondrial dysfunction: implication in the pathophysiology of aging. 2013 , 238, 450-60 | 220 |
| 392 | Mitochondrial dysfunction and NAD(+) metabolism alterations in the pathophysiology of acute brain injury. 2013 , 4, 618-34 | 30 |
| 391 | Mitochondria as a source of reactive oxygen and nitrogen species: from molecular mechanisms to human health. 2013 , 18, 2029-74 | 282 |
| 390 | Mutant SOD1G93A triggers mitochondrial fragmentation in spinal cord motor neurons: neuroprotection by SIRT3 and PGC-1 β . 2013 , 51, 72-81 | 149 |
| 389 | Mitochondrial quality control: impact on aging and life span - a mini-review. 2013 , 59, 413-20 | 30 |
| 388 | Germline energetics, aging, and female infertility. 2013 , 17, 838-850 | 128 |
| 387 | Programmed cell death with a necrotic-like phenotype. 2013 , 4, 259-75 | 11 |
| 386 | Nicotinamide riboside, a trace nutrient in foods, is a vitamin B3 with effects on energy metabolism and neuroprotection. 2013 , 16, 657-61 | 76 |
| 385 | Cyclophilin D and acetylation: a new link in cardiac signaling. 2013 , 113, 1268-9 | 4 |
| 384 | SIRT3 regulation of mitochondrial oxidative stress. 2013 , 48, 634-9 | 181 |

| | | |
|-----|---|----------|
| 383 | Cardiac-specific hexokinase 2 overexpression attenuates hypertrophy by increasing pentose phosphate pathway flux. 2013 , 2, e000355 | 34 |
| 382 | SIRT3: A Central Regulator of Mitochondrial Adaptation in Health and Disease. 2013 , 4, 118-24 | 44 |
| 381 | Mechanism-based Modulator Discovery for Sirtuin-catalyzed Deacetylation Reaction. 2013 , 13, 132-154 | 22 |
| 380 | Adrenergic signaling and oxidative stress: a role for sirtuins?. 2013 , 4, 324 | 56 |
| 379 | Mitochondrial permeability transition and cell death: the role of cyclophilin d. 2013 , 4, 76 | 106 |
| 378 | The emerging and diverse roles of sirtuins in cancer: a clinical perspective. 2013 , 6, 1399-416 | 101 |
| 377 | Cyclophilin D modulates mitochondrial acetylome. 2013 , 113, 1308-19 | 48 |
| 376 | Widespread and enzyme-independent N ^ε acetylation and N ^ε succinylation of proteins in the chemical conditions of the mitochondrial matrix. 2013 , 288, 29036-45 | 329 |
| 375 | Oroxylin A induces dissociation of hexokinase II from the mitochondria and inhibits glycolysis by SIRT3-mediated deacetylation of cyclophilin D in breast carcinoma. 2013 , 4, e601 | 84 |
| 374 | Physiologic functions of cyclophilin D and the mitochondrial permeability transition pore. 2013 , 77, 1111-22 | 187 |
| 373 | Role of sirtuins in ischemia-reperfusion injury. 2013 , 19, 7594-602 | 40 |
| 372 | The sirtuin family's role in aging and age-associated pathologies. <i>Journal of Clinical Investigation</i> , 2013 , 123, 973-9 | 15.9 160 |
| 371 | Sirtuins: from metabolic regulation to brain aging. 2013 , 5, 36 | 67 |
| 370 | Forever young: SIRT3 a shield against mitochondrial meltdown, aging, and neurodegeneration. 2013 , 5, 48 | 194 |
| 369 | New insights into the role of mitochondrial dynamics and autophagy during oxidative stress and aging in the heart. 2014 , 2014, 210934 | 72 |
| 368 | Sirt3 protects cortical neurons against oxidative stress via regulating mitochondrial Ca ²⁺ and mitochondrial biogenesis. 2014 , 15, 14591-609 | 68 |
| 367 | Epigenetic regulation and heart failure. 2014 , 12, 1087-98 | 7 |
| 366 | DJ-1 protects against cell death following acute cardiac ischemia-reperfusion injury. 2014 , 5, e1082 | 51 |

| | | |
|-----|--|-----|
| 365 | SIRT3 deficiency exacerbates ischemia-reperfusion injury: implication for aged hearts. 2014 , 306, H1602-9 | 146 |
| 364 | Metabolism leaves its mark on the powerhouse: recent progress in post-translational modifications of lysine in mitochondria. 2014 , 5, 301 | 58 |
| 363 | Impact of caloric restriction on myocardial ischaemia/reperfusion injury and new therapeutic options to mimic its effects. 2014 , 171, 2964-92 | 20 |
| 362 | Decreased SIRT3 in aged human mesenchymal stromal/stem cells increases cellular susceptibility to oxidative stress. 2014 , 18, 2298-310 | 40 |
| 361 | Acetylation in the Control of Mitochondrial Metabolism and Integrity. 2014 , 115-127 | |
| 360 | Sirtuin inhibitors as anticancer agents. 2014 , 6, 945-66 | 111 |
| 359 | Cardiovascular Disease in Aging and the Role of Oxidative Stress. 2014 , 23-38 | 4 |
| 358 | Mitochondrial stress signaling promotes cellular adaptations. 2014 , 2014, 156020 | 56 |
| 357 | Do we age because we have mitochondria?. 2014 , 251, 3-23 | 15 |
| 356 | Are sirtuin deacylase enzymes important modulators of mitochondrial energy metabolism?. 2014 , 1840, 1295-302 | 39 |
| 355 | Increased sensitivity to mitochondrial permeability transition and myonuclear translocation of endonuclease G in atrophied muscle of physically active older humans. 2014 , 28, 1621-33 | 129 |
| 354 | Regulation of autophagy and mitophagy by nutrient availability and acetylation. 2014 , 1841, 525-34 | 46 |
| 353 | Post-translational modification of mitochondria as a novel mode of regulation. 2014 , 56, 202-20 | 45 |
| 352 | Nonenzymatic protein acylation as a carbon stress regulated by sirtuin deacylases. 2014 , 54, 5-16 | 229 |
| 351 | Roles of sirtuins in the regulation of antioxidant defense and bioenergetic function of mitochondria under oxidative stress. 2014 , 48, 1070-84 | 33 |
| 350 | SIRT3: as simple as it seems?. 2014 , 60, 56-64 | 58 |
| 349 | SIRT3 deacetylates and activates OPA1 to regulate mitochondrial dynamics during stress. 2014 , 34, 807-19 | 250 |
| 348 | Control of mitochondrial integrity in ageing and disease. 2014 , 369, 20130439 | 40 |

| | | |
|-----|---|--------|
| 347 | Superoxide mediates acute liver injury in irradiated mice lacking sirtuin 3. 2014 , 20, 1423-35 | 28 |
| 346 | Over-expression of the Sirt3 sirtuin Protects neuronally differentiated PC12 Cells from degeneration induced by oxidative stress and trophic withdrawal. 2014 , 1587, 40-53 | 22 |
| 345 | Biomarkers of mitochondrial dysfunction and toxicity. 2014 , 847-861 | |
| 344 | Mitochondrial oxidative stress in aging and healthspan. 2014 , 3, 6 | 297 |
| 343 | Regulation of Akt signaling by sirtuins: its implication in cardiac hypertrophy and aging. 2014 , 114, 368-78 | 177 |
| 342 | Exercise mitigates diclofenac-induced liver mitochondrial dysfunction. 2014 , 44, 668-77 | 20 |
| 341 | Heart failure with preserved ejection fraction: molecular pathways of the aging myocardium. 2014 , 115, 97-107 | 124 |
| 340 | Sirt3 attenuates hydrogen peroxide-induced oxidative stress through the preservation of mitochondrial function in HT22 cells. 2014 , 34, 1159-68 | 45 |
| 339 | The Biology of Aging: Implications for Diseases of Aging and Health Care in the Twenty-First Century. 2014 , 1-37 | 2 |
| 338 | Cardiovascular ageing. 2015 , 203-245 | |
| 337 | Mitochondrion as a Target for Heart Failure Therapy- Role of Protein Lysine Acetylation. 2015 , 79, 1863-70 | 26 |
| 336 | The Mitochondrial Permeability Transition Pore, the c-Subunit of the F1Fo ATP Synthase, Cellular Development, and Synaptic Efficiency. 2015 , 31-64 | |
| 335 | Acetyl-ed question in mitochondrial biology?. 2015 , 34, 2597-600 | 7 |
| 334 | Altered FoF1 ATP synthase and susceptibility to mitochondrial permeability transition pore during ischaemia and reperfusion in aging cardiomyocytes. 2015 , 113, 441-51 | 38 |
| 333 | Cardiac Physiology of Aging: Extracellular Considerations. 2015 , 5, 1069-121 | 28 |
| 332 | The e-Amino Group of Protein Lysine Residues Is Highly Susceptible to Nonenzymatic Acylation by Several Physiological Acyl-CoA Thioesters. 2015 , 16, 2337-47 | 37 |
| 331 | Pivotal Importance of STAT3 in Protecting the Heart from Acute and Chronic Stress: New Advancement and Unresolved Issues. <i>Frontiers in Cardiovascular Medicine</i> , 2015 , 2, 36 | 5-4 45 |
| 330 | Mechanisms of cell death pathway activation following drug-induced inhibition of mitochondrial complex I. 2015 , 4, 279-88 | 20 |

| | | |
|-----|---|-----|
| 329 | Sirtuin function in aging heart and vessels. 2015 , 83, 55-61 | 67 |
| 328 | Mitochondrial sirtuins and their relationships with metabolic disease and cancer. 2015 , 22, 1060-77 | 87 |
| 327 | Quality control systems in cardiac aging. 2015 , 23, 101-15 | 24 |
| 326 | SIRT3 regulates progression and development of diseases of aging. 2015 , 26, 486-492 | 124 |
| 325 | Sirtuins, aging, and cardiovascular risks. 2015 , 37, 9804 | 21 |
| 324 | Mitochondrial dysfunction in cardiac aging. 2015 , 1847, 1424-33 | 82 |
| 323 | Protective effects of sirtuins in cardiovascular diseases: from bench to bedside. 2015 , 36, 3404-12 | 264 |
| 322 | Mitochondrial dynamics: Orchestrating the journey to advanced age. 2015 , 83, 37-43 | 60 |
| 321 | High-fat diet induces cardiac remodelling and dysfunction: assessment of the role played by SIRT3 loss. 2015 , 19, 1847-56 | 94 |
| 320 | Inhibition of myocardial reperfusion injury by ischemic postconditioning requires sirtuin 3-mediated deacetylation of cyclophilin D. 2015 , 84, 61-9 | 73 |
| 319 | Vascular biology of ageing-Implications in hypertension. 2015 , 83, 112-21 | 169 |
| 318 | Honokiol blocks and reverses cardiac hypertrophy in mice by activating mitochondrial Sirt3. 2015 , 6, 6656 | 241 |
| 317 | Dietary restriction, mitochondrial function and aging: from yeast to humans. 2015 , 1847, 1434-47 | 95 |
| 316 | SIRT3 deficiency impairs mitochondrial and contractile function in the heart. 2015 , 110, 36 | 110 |
| 315 | Cell death disguised: The mitochondrial permeability transition pore as the c-subunit of the F(1)F(O) ATP synthase. 2015 , 99, 382-92 | 56 |
| 314 | BKC interaction with the d subunit of F1Fo ATP synthase impairs energetics and exacerbates ischemia/reperfusion injury in isolated rat hearts. 2015 , 89, 232-40 | 1 |
| 313 | Cyclophilin D and myocardial ischemia-reperfusion injury: a fresh perspective. 2015 , 78, 80-9 | 71 |
| 312 | Mitochondrial sirtuins: emerging roles in metabolic regulations, energy homeostasis and diseases. 2015 , 61, 130-41 | 74 |

| | | | |
|-----|--|-----|-----|
| 311 | Structural mechanisms of cyclophilin D-dependent control of the mitochondrial permeability transition pore. 2015 , 1850, 2041-7 | | 68 |
| 310 | Collaboration between mitochondria and the nucleus is key to long life in <i>Caenorhabditis elegans</i> . 2015 , 78, 168-78 | | 14 |
| 309 | SIRT3 in Cardiac Physiology and Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2016 , 3, 38 | 5-4 | 37 |
| 308 | SIRT3 in cardiovascular diseases: Emerging roles and therapeutic implications. 2016 , 220, 700-5 | | 29 |
| 307 | Mitochondrial Sirtuin 3 and Renal Diseases. 2016 , 134, 14-9 | | 44 |
| 306 | Induction of unspecific permeabilization of mitochondrial membrane and its role in cell death. 2016 , 50, 43-58 | | 7 |
| 305 | Post-translational modifications in mitochondria: protein signaling in the powerhouse. 2016 , 73, 4063-73 | | 75 |
| 304 | Hearts deficient in both Mfn1 and Mfn2 are protected against acute myocardial infarction. 2016 , 7, e2238 | | 102 |
| 303 | Activation of SIRT3 attenuates triptolide-induced toxicity through closing mitochondrial permeability transition pore in cardiomyocytes. 2016 , 34, 128-137 | | 22 |
| 302 | Sirt3 protects mitochondrial DNA damage and blocks the development of doxorubicin-induced cardiomyopathy in mice. 2016 , 310, H962-72 | | 88 |
| 301 | Mitochondrial Function, Biology, and Role in Disease: A Scientific Statement From the American Heart Association. 2016 , 118, 1960-91 | | 219 |
| 300 | Aging and Autophagy in the Heart. 2016 , 118, 1563-76 | | 238 |
| 299 | Mitochondrial Metabolism in Aging Heart. 2016 , 118, 1593-611 | | 163 |
| 298 | The role of mitochondrial sirtuins in health and disease. 2016 , 100, 164-174 | | 101 |
| 297 | Mitochondrial form, function and signalling in aging. 2016 , 473, 3421-3449 | | 23 |
| 296 | Normalization of NAD+ Redox Balance as a Therapy for Heart Failure. 2016 , 134, 883-94 | | 164 |
| 295 | NMNAT3 is involved in the protective effect of SIRT3 in Ang II-induced cardiac hypertrophy. 2016 , 347, 261-73 | | 33 |
| 294 | MicroRNAs in heart failure: Non-coding regulators of metabolic function. 2016 , 1862, 2276-2287 | | 10 |

| | | |
|-----|---|-----|
| 293 | Mechanisms of transcription factor acetylation and consequences in hearts. 2016 , 1862, 2221-2231 | 16 |
| 292 | Epigenetics in Cardiac Disease. 2016 , | 2 |
| 291 | Roles of SIRT3 in heart failure: from bench to bedside. 2016 , 17, 821-830 | 19 |
| 290 | Sirtuins. 2016 , | |
| 289 | An Artificial Reaction Promoter Modulates Mitochondrial Functions via Chemically Promoting Protein Acetylation. 2016 , 6, 29224 | 4 |
| 288 | Insights into Lysine Deacetylation of Natively Folded Substrate Proteins by Sirtuins. 2016 , 291, 14677-94 | 33 |
| 287 | Sprague Dawley rats: A model of successful heart aging. 2016 , 12, 22-30 | 6 |
| 286 | Mitochondrial sirtuins in the heart. 2016 , 21, 519-28 | 29 |
| 285 | The Role of Exercise in Cardiac Aging: From Physiology to Molecular Mechanisms. 2016 , 118, 279-95 | 69 |
| 284 | Cardiac Aging. 2016 , 459-494 | 1 |
| 283 | SIRT3 Deacetylates Ceramide Synthases: IMPLICATIONS FOR MITOCHONDRIAL DYSFUNCTION AND BRAIN INJURY. 2016 , 291, 1957-1973 | 46 |
| 282 | Preserved recovery of cardiac function following ischemia-reperfusion in mice lacking SIRT3. 2016 , 94, 72-80 | 35 |
| 281 | Mitochondrial Dynamics Is Linked to Longevity and Protects from End-Organ Injury: The Emerging Role of Sirtuin 3. 2016 , 25, 185-99 | 38 |
| 280 | Novel targets for mitochondrial medicine. 2016 , 8, 326rv3 | 80 |
| 279 | The mitochondrial permeability transition pore in AD 2016: An update. 2016 , 1863, 2515-30 | 93 |
| 278 | Sex difference in the sensitivity of cardiac mitochondrial permeability transition pore to calcium load. 2016 , 412, 147-54 | 34 |
| 277 | Mitochondrial SIRT3 Mediates Adaptive Responses of Neurons to Exercise and Metabolic and Excitatory Challenges. 2016 , 23, 128-42 | 203 |
| 276 | Exercise mitigates mitochondrial permeability transition pore and quality control mechanisms alterations in nonalcoholic steatohepatitis. 2016 , 41, 298-306 | 36 |

| | | | |
|-----|---|-----|-----|
| 275 | Complex role of nicotinamide adenine dinucleotide in the regulation of programmed cell death pathways. 2016 , 101, 13-26 | | 17 |
| 274 | ID2 promotes survival of glioblastoma cells during metabolic stress by regulating mitochondrial function. 2017 , 8, e2615 | | 18 |
| 273 | Pathophysiology of heart failure and frailty: a common inflammatory origin?. 2017 , 16, 444-450 | | 50 |
| 272 | Regulation of Sirtuin 3-Mediated Deacetylation of Cyclophilin D Attenuated Cognitive Dysfunction Induced by Sepsis-Associated Encephalopathy in Mice. 2017 , 37, 1457-1464 | | 20 |
| 271 | Role of NAD and mitochondrial sirtuins in cardiac and renal diseases. 2017 , 13, 213-225 | | 109 |
| 270 | The role of sirtuins in mitochondrial function and doxorubicin-induced cardiac dysfunction. 2017 , 398, 955-974 | | 24 |
| 269 | Toxicity of triptolide and the molecular mechanisms involved. <i>Biomedicine and Pharmacotherapy</i> , 2017 , 90, 531-541 | 7.5 | 117 |
| 268 | SIRT1 is required for mitochondrial biogenesis reprogramming in hypoxic human pulmonary arteriolar smooth muscle cells. 2017 , 39, 1127-1136 | | 22 |
| 267 | Role of glycogen synthase kinase following myocardial infarction and ischemia-reperfusion. 2017 , 22, 887-897 | | 25 |
| 266 | The valosin-containing protein is a novel mediator of mitochondrial respiration and cell survival in the heart in vivo. 2017 , 7, 46324 | | 10 |
| 265 | The Mitochondrial Permeability Transition Pore: Molecular Structure and Function in Health and Disease. 2017 , 69-105 | | 2 |
| 264 | Mitochondrial Dysfunction in Cardiovascular Aging. 2017 , 982, 451-464 | | 25 |
| 263 | Mitochondria Initiate and Regulate Sarcopenia. 2017 , 45, 58-69 | | 56 |
| 262 | Mitochondrial permeability transition in cardiac ischemia-reperfusion: whether cyclophilin D is a viable target for cardioprotection?. 2017 , 74, 2795-2813 | | 56 |
| 261 | Mitochondrial Sirtuins and Molecular Mechanisms of Aging. 2017 , 23, 320-331 | | 154 |
| 260 | Cyclophilin D over-expression increases mitochondrial complex III activity and accelerates supercomplex formation. 2017 , 613, 61-68 | | 9 |
| 259 | Using comparative biology to understand how aging affects mitochondrial metabolism. 2017 , 455, 54-61 | | 9 |
| 258 | The role of caloric load and mitochondrial homeostasis in the regulation of the NLRP3 inflammasome. 2017 , 74, 1777-1791 | | 16 |

| | | |
|-----|---|--------|
| 257 | WITHDRAWN: Toxicity of triptolide and the molecular mechanisms involved. 2017 , | 1 |
| 256 | The sirtuin family members SIRT1, SIRT3 and SIRT6: Their role in vascular biology and atherogenesis. 2017 , 265, 275-282 | 106 |
| 255 | Sirtuin 3 Deficiency Accelerates Hypertensive Cardiac Remodeling by Impairing Angiogenesis. 2017 , 6, | 62 |
| 254 | Mitochondrial Sirtuins in cardiometabolic diseases. 2017 , 131, 2063-2078 | 48 |
| 253 | The path from mitochondrial ROS to aging runs through the mitochondrial permeability transition pore. 2017 , 16, 943-955 | 104 |
| 252 | Interleukin-6 Affects Aging-Related Changes of the PPAR β /PGC-1 α Axis in the Myocardium. 2017 , 37, 513-521 | 7 |
| 251 | Cyclophilin D regulates the dynamic assembly of mitochondrial ATP synthase into synthasomes. 2017 , 7, 14488 | 45 |
| 250 | Age-dependent atrial arrhythmic phenotype secondary to mitochondrial dysfunction in Pgc-1 α deficient murine hearts. 2017 , 167, 30-45 | 12 |
| 249 | Emerging Roles of Sirtuins in Ischemic Stroke. 2017 , 8, 405 | 19 |
| 248 | Sirtuin 3 rescues neurons through the stabilisation of mitochondrial biogenetics in the virally-expressing mutant β synuclein rat model of parkinsonism. 2017 , 106, 133-146 | 28 |
| 247 | Treatment of cardiovascular pathology with epigenetically active agents: Focus on natural and synthetic inhibitors of DNA methylation and histone deacetylation. 2017 , 227, 66-82 | 41 |
| 246 | NAD and the aging process: Role in life, death and everything in between. 2017 , 455, 62-74 | 98 |
| 245 | Lysine acetylation in mitochondria: From inventory to function. <i>Mitochondrion</i> , 2017 , 33, 58-71 | 4.9 60 |
| 244 | Mitochondrial Ca and regulation of the permeability transition pore. 2017 , 49, 27-47 | 115 |
| 243 | Receptor-interacting Protein 140 represses Sirtuin 3 to facilitate hypertrophy, mitochondrial dysfunction and energy metabolic dysfunction in cardiomyocytes. 2017 , 220, 58-71 | 17 |
| 242 | Function of the SIRT3 mitochondrial deacetylase in cellular physiology, cancer, and neurodegenerative disease. 2017 , 16, 4-16 | 143 |
| 241 | Sirtuins and Their Roles in Brain Aging and Neurodegenerative Disorders. 2017 , 42, 876-890 | 141 |
| 240 | Nicotinamide mononucleotide requires SIRT3 to improve cardiac function and bioenergetics in a Friedreich's ataxia cardiomyopathy model. 2017 , 2, | 60 |

| | | | |
|-----|--|-----|-----|
| 239 | High Sensitivity of SIRT3 Deficient Hearts to Ischemia-Reperfusion Is Associated with Mitochondrial Abnormalities. <i>Frontiers in Pharmacology</i> , 2017 , 8, 275 | 5.6 | 39 |
| 238 | SIRT3: Oncogene and Tumor Suppressor in Cancer. 2017 , 9, | | 64 |
| 237 | Regulation of Sirtuin-Mediated Protein Deacetylation by Cardioprotective Phytochemicals. 2017 , 2017, 1750306 | | 42 |
| 236 | Honokiol, an activator of Sirtuin-3 (SIRT3) preserves mitochondria and protects the heart from doxorubicin-induced cardiomyopathy in mice. 2017 , 8, 34082-34098 | | 82 |
| 235 | Sirtuins in the Cardiovascular System: Potential Targets in Pediatric Cardiology. 2018 , 39, 983-992 | | 13 |
| 234 | Therapeutic Potential of NAD-Boosting Molecules: The In Vivo Evidence. 2018 , 27, 529-547 | | 332 |
| 233 | Molecular mechanism and therapy application of necrosis during myocardial injury. 2018 , 22, 2547-2557 | | 8 |
| 232 | Epigenetics of Aberrant Cardiac Wound Healing. 2018 , 8, 451-491 | | 7 |
| 231 | Effect of ganoderic acid D on colon cancer Warburg effect: Role of SIRT3/cyclophilin D. 2018 , 824, 72-77 | | 7 |
| 230 | Metformin regulates mitochondrial biogenesis and senescence through AMPK mediated H3K79 methylation: Relevance in age-associated vascular dysfunction. 2018 , 1864, 1115-1128 | | 63 |
| 229 | Blocking mitochondrial cyclophilin D ameliorates TSH-impaired defensive barrier of artery. 2018 , 15, 418-434 | | 10 |
| 228 | Acid sphingomyelinase promotes mitochondrial dysfunction due to glutamate-induced regulated necrosis. 2018 , 59, 312-329 | | 31 |
| 227 | MicroRNA-195 Regulates Metabolism in Failing Myocardium Via Alterations in Sirtuin 3 Expression and Mitochondrial Protein Acetylation. 2018 , 137, 2052-2067 | | 68 |
| 226 | Roles for Sirtuins in Cardiovascular Biology. 2018 , 155-173 | | 1 |
| 225 | Indirubin and NAD prevent mitochondrial ischaemia/reperfusion damage in fatty livers. 2018 , 48, e12932 | | 10 |
| 224 | The Mitochondrial Permeability Transition Pore. 2018 , 47-73 | | 3 |
| 223 | Sirtuins and Accelerated Aging in Scleroderma. 2018 , 20, 16 | | 17 |
| 222 | Mitochondrial Disruption in Cardiovascular Diseases. 2018 , 241-267 | | |

| | | |
|-----|--|--------|
| 221 | Pharmacological Targeting of the Mitochondrial Permeability Transition Pore for Cardioprotection. 2018 , 423-490 | 4 |
| 220 | Sirtuins in mitochondrial stress: Indispensable helpers behind the scenes. 2018 , 44, 22-32 | 28 |
| 219 | Hydrogen sulfide pretreatment improves mitochondrial function in myocardial hypertrophy via a SIRT3-dependent manner. 2018 , 175, 1126-1145 | 76 |
| 218 | Nutritional biomarkers: Current view and future perspectives. 2018 , 58, 3055-3069 | 7 |
| 217 | Extranuclear Sirtuins and Metabolic Stress. 2018 , 28, 662-676 | 30 |
| 216 | Role of Beta-adrenergic Receptors and Sirtuin Signaling in the Heart During Aging, Heart Failure, and Adaptation to Stress. 2018 , 38, 109-120 | 24 |
| 215 | Enhancement of Replication and Differentiation Potential of Human Bone Marrow Stem Cells by Nicotinamide Treatment. 2018 , 11, 13-25 | 11 |
| 214 | Moderate calorie restriction attenuates age-associated alterations and improves cardiac function by increasing SIRT1 and SIRT3 expression. 2018 , 18, 4087-4094 | 14 |
| 213 | OBSOLETE: Mitochondria Bioenergetics in the Heart. 2018 , | |
| 212 | Changes in the Expression and the Role of Sirtuin 3 in Cancer Cells and in Cardiovascular Health and Disease. 2018 , | 1 |
| 211 | SIRT3 Activation by Dihydromyricetin Suppresses Chondrocytes Degeneration via Maintaining Mitochondrial Homeostasis. 2018 , 14, 1873-1882 | 27 |
| 210 | Mitochondrial calcium signalling and neurodegenerative diseases. 2018 , 2, NS20180061 | 23 |
| 209 | Caffeine Protects Skin from Oxidative Stress-Induced Senescence through the Activation of Autophagy. 2018 , 8, 5713-5730 | 56 |
| 208 | Cyclophilin D, Somehow a Master Regulator of Mitochondrial Function. 2018 , 8, | 43 |
| 207 | Sirtuins and Insulin Resistance. <i>Frontiers in Endocrinology</i> , 2018 , 9, 748 | 5-7 50 |
| 206 | Mitochondrial Bioenergetics in the Heart. 2018 , 365-380 | |
| 205 | Divergent Effects of Cyclophilin-D Inhibition on the Female Rat Heart: Acute Versus Chronic Post-Myocardial Infarction. 2018 , 50, 288-303 | 9 |
| 204 | Targeting Autophagy in Aging and Aging-Related Cardiovascular Diseases. 2018 , 39, 1064-1076 | 118 |

| | | |
|-----|---|-------|
| 203 | Controversial Impact of Sirtuins in Chronic Non-Transmissible Diseases and Rehabilitation Medicine. 2018 , 19, | 3 |
| 202 | SIRT3-mediated cardiac remodeling/repair following myocardial infarction. <i>Biomedicine and Pharmacotherapy</i> , 2018 , 108, 367-373 | 7.5 6 |
| 201 | Dihydromyricetin Attenuates Myocardial Hypertrophy Induced by Transverse Aortic Constriction via Oxidative Stress Inhibition and SIRT3 Pathway Enhancement. 2018 , 19, | 32 |
| 200 | Dexmedetomidine attenuation of renal ischaemia-reperfusion injury requires sirtuin 3 activation. 2018 , 121, 1260-1271 | 22 |
| 199 | Mouse Models to Disentangle the Hallmarks of Human Aging. 2018 , 123, 905-924 | 44 |
| 198 | Autophagy in Cardiovascular Aging. 2018 , 123, 803-824 | 99 |
| 197 | Sirtuins and NAD in the Development and Treatment of Metabolic and Cardiovascular Diseases. 2018 , 123, 868-885 | 151 |
| 196 | Ablation of in the postnatal mouse heart results in protein succinylation and normal survival in response to chronic pressure overload. 2018 , 293, 10630-10645 | 18 |
| 195 | Ventricular pro-arrhythmic phenotype, arrhythmic substrate, ageing and mitochondrial dysfunction in peroxisome proliferator activated receptor- α coactivator-1 deficient (Pgc-1 α) murine hearts. 2018 , 173, 92-103 | 8 |
| 194 | Beyond longevity: novel roles of Sirtuin-3 in thrombosis. 2018 , 114, 1060-1062 | |
| 193 | Regulatory Effects of NAD Metabolic Pathways on Sirtuin Activity. 2018 , 154, 71-104 | 24 |
| 192 | SIRT3: A New Regulator of Cardiovascular Diseases. 2018 , 2018, 7293861 | 54 |
| 191 | Mitochondria and Calcium Regulation as Basis of Neurodegeneration Associated With Aging. 2018 , 12, 470 | 60 |
| 190 | Inhibition of programmed necrosis limits infarct size through altered mitochondrial and immune responses in the aged female rat heart. 2018 , 315, H1434-H1442 | 11 |
| 189 | The Role of SIRT3 in the Brain Under Physiological and Pathological Conditions. 2018 , 12, 196 | 23 |
| 188 | Acetylation of Mitochondrial Proteins in the Heart: The Role of SIRT3. 2018 , 9, 1094 | 74 |
| 187 | Mitochondrial Sirtuins. 2018 , 95-115 | 1 |
| 186 | Mitochondria and aging: A role for the mitochondrial transition pore?. 2018 , 17, e12793 | 74 |

| | | |
|-----|--|----|
| 185 | Emerging role of SIRT3 in endothelial metabolism, angiogenesis, and cardiovascular disease. 2019 , 234, 2252-2265 | 38 |
| 184 | Role of PGC-1 β in Mitochondrial Quality Control in Neurodegenerative Diseases. 2019 , 44, 2031-2043 | 13 |
| 183 | Metformin in contrast to berberine reversed arsenic-induced oxidative stress in mitochondria from rat pancreas probably via Sirt3-dependent pathway. 2019 , 33, e22368 | 12 |
| 182 | Deficiency Shortens Life Span and Impairs Cardiac Mitochondrial Function Rescued by Gene Transfer. 2019 , 31, 1255-1271 | 33 |
| 181 | Upregulation of Yy1 Suppresses Dilated Cardiomyopathy caused by Ttn insufficiency. 2019 , 9, 16330 | 4 |
| 180 | Hyperacetylation of Cardiac Mitochondrial Proteins Is Associated with Metabolic Impairment and Sirtuin Downregulation after Chronic Total Body Irradiation of ApoE Mice. 2019 , 20, | 14 |
| 179 | Parkin Regulates Programmed Necrosis and Myocardial Ischemia/Reperfusion Injury by Targeting Cyclophilin-D. 2019 , 31, 1177-1193 | 42 |
| 178 | Diverse therapeutic efficacies and more diverse mechanisms of nicotinamide. 2019 , 15, 137 | 30 |
| 177 | Pharmacological Nicotinamide: Mechanisms Centered Around SIRT1 Activity. 2019 , 781-799 | |
| 176 | Sirtuin 3 silencing impairs mitochondrial biogenesis and metabolism in colon cancer cells. 2019 , 317, C398-C404 | 21 |
| 175 | PGC-1 β , Sirtuins and PARPs in Huntington's Disease and Other Neurodegenerative Conditions: NAD ⁺ to Rule Them All. 2019 , 44, 2423-2434 | 16 |
| 174 | Atrial Transcriptional Profiles of Molecular Targets Mediating Electrophysiological Function in Aging and β -Deficient Murine Hearts. 2019 , 10, 497 | 2 |
| 173 | Role of Mitochondria in Cardiovascular Comorbidities Associated with Obesity and Type 2 Diabetes. 2019 , 263-286 | |
| 172 | Developmental and sex differences in cardiac tolerance to ischemia-reperfusion injury: the role of mitochondria. 2019 , 97, 808-814 | 17 |
| 171 | Exercise Metabolism in Health and Disease. 2019 , 57-96 | 4 |
| 170 | Nicotinamide adenine dinucleotide emerges as a therapeutic target in aging and ischemic conditions. 2019 , 20, 381-395 | 12 |
| 169 | Cardiomyocyte-GSK-3 β promotes mPTP opening and heart failure in mice with chronic pressure overload. 2019 , 130, 65-75 | 13 |
| 168 | Biomarkers of Mitochondrial Dysfunction and Toxicity. 2019 , 981-996 | |

| | | |
|-----|---|-----|
| 167 | Cyclophilin D-mediated regulation of the permeability transition pore is altered in mice lacking the mitochondrial calcium uniporter. 2019 , 115, 385-394 | 35 |
| 166 | Targeting mitochondria for cardiovascular disorders: therapeutic potential and obstacles. 2019 , 16, 33-55 | 104 |
| 165 | Mitochondrial regulation of cardiac aging. 2019 , 1865, 1853-1864 | 17 |
| 164 | ARC regulates programmed necrosis and myocardial ischemia/reperfusion injury through the inhibition of mPTP opening. 2019 , 20, 414-426 | 48 |
| 163 | Emerging role of SIRT3 in mitochondrial dysfunction and cardiovascular diseases. 2019 , 53, 139-149 | 40 |
| 162 | Crosstalk Between Mitochondrial Hyperacetylation and Oxidative Stress in Vascular Dysfunction and Hypertension. 2019 , 31, 710-721 | 37 |
| 161 | Mitochondrial Permeability Transition: A Molecular Lesion with Multiple Drug Targets. 2019 , 40, 50-70 | 93 |
| 160 | Mitochondrial NAD/NADH Redox State and Diabetic Cardiomyopathy. 2019 , 30, 375-398 | 50 |
| 159 | Sirtuins and their Biological Relevance in Aging and Age-Related Diseases. 2020 , 11, 927-945 | 23 |
| 158 | Polydatin protects against lipopolysaccharide-induced endothelial barrier disruption via SIRT3 activation. 2020 , 100, 643-656 | 13 |
| 157 | The yin and yang faces of the mitochondrial deacetylase sirtuin 3 in age-related disorders. 2020 , 57, 100983 | 12 |
| 156 | The mitochondrial NO-synthase/guanylate cyclase/protein kinase G signaling system underpins the dual effects of nitric oxide on mitochondrial respiration and opening of the permeability transition pore. 2020 , 287, 1525-1536 | 6 |
| 155 | SIRT3 Haploinsufficiency Aggravates Loss of GABAergic Interneurons and Neuronal Network Hyperexcitability in an Alzheimer's Disease Model. 2020 , 40, 694-709 | 27 |
| 154 | Rethinking Protein Acetylation in Pressure Overload-Induced Heart Failure. 2020 , 127, 1109-1111 | 2 |
| 153 | Mitochondrial Isolevuglandins Contribute to Vascular Oxidative Stress and Mitochondria-Targeted Scavenger of Isolevuglandins Reduces Mitochondrial Dysfunction and Hypertension. 2020 , 76, 1980-1991 | 5 |
| 152 | NAD metabolism: pathophysiologic mechanisms and therapeutic potential. 2020 , 5, 227 | 101 |
| 151 | Impaired flickering of the permeability transition pore causes SPG7 spastic paraplegia. 2020 , 61, 103050 | 10 |
| 150 | Advances in characterization of SIRT3 deacetylation targets in mitochondrial function. 2020 , 179, 1-13 | 9 |

| | | |
|-----|---|-------|
| 149 | Roles of Mitochondrial Sirtuins in Mitochondrial Function, Redox Homeostasis, Insulin Resistance and Type 2 Diabetes. 2020 , 21, | 24 |
| 148 | Mitochondrial CaMKII causes adverse metabolic reprogramming and dilated cardiomyopathy. 2020 , 11, 4416 | 22 |
| 147 | Impact of Short-Term Hypoxia on Sirtuins as Regulatory Elements in HUVECs. 2020 , 9, | 6 |
| 146 | Phosphorylation of cyclophilin D at serine 191 regulates mitochondrial permeability transition pore opening and cell death after ischemia-reperfusion. 2020 , 11, 661 | 15 |
| 145 | Possible Adverse Effects of High-Dose Nicotinamide: Mechanisms and Safety Assessment. 2020 , 10, | 30 |
| 144 | CITED4 Protects Against Adverse Remodeling in Response to Physiological and Pathological Stress. 2020 , 127, 631-646 | 9 |
| 143 | The role of SIRT3-mediated mitochondrial homeostasis in osteoarthritis. 2020 , 77, 3729-3743 | 15 |
| 142 | Oxidized nicotinamide adenine dinucleotide-dependent mitochondrial deacetylase sirtuin-3 as a potential therapeutic target of Parkinson's disease. 2020 , 62, 101107 | 14 |
| 141 | mRNA expression of ageing-associated genes in calorie reduction is subject to donor variability and can be induced by calorie restriction mimetics. 2020 , 26, 253-262 | |
| 140 | Androgen-Regulated Cardiac Metabolism in Aging Men. <i>Frontiers in Endocrinology</i> , 2020 , 11, 316 | 5.7 6 |
| 139 | Cyclophilin D: An Integrator of Mitochondrial Function. 2020 , 11, 595 | 18 |
| 138 | Age and Sex Differences in Hearts of Soluble Epoxide Hydrolase Null Mice. 2020 , 11, 48 | 9 |
| 137 | Cardiovascular disease in aging and the role of oxidative stress. 2020 , 19-35 | |
| 136 | Mitochondrial Dysfunction and Inflammaging in Heart Failure: Novel Roles of CYP-Derived Epoxy lipids. 2020 , 9, | 15 |
| 135 | Antioxidant Alternatives in the Treatment of Amyotrophic Lateral Sclerosis: A Comprehensive Review. 2020 , 11, 63 | 30 |
| 134 | Targeting Age-Related Pathways in Heart Failure. 2020 , 126, 533-551 | 36 |
| 133 | Effects of aging and exercise training on mitochondrial function and apoptosis in the rat heart. 2020 , 472, 179-193 | 17 |
| 132 | Inhibition of Mitochondrial Calcium Overload by SIRT3 Prevents Obesity- or Age-Related Whitening of Brown Adipose Tissue. 2020 , 69, 165-180 | 25 |

| | | |
|-----|--|-------|
| 131 | Thyroid Stimulating Hormone Triggers Hepatic Mitochondrial Stress through Cyclophilin D Acetylation. 2020 , 2020, 1249630 | 2 |
| 130 | Comparison of the effects of resveratrol and its derivative pterostilbene on hepatic oxidative stress and mitochondrial dysfunction in piglets challenged with diquat. 2020 , 11, 4202-4215 | 14 |
| 129 | The role and molecular mechanism of epigenetics in cardiac hypertrophy. 2021 , 26, 1505-1514 | 12 |
| 128 | Nicotinamide Riboside and Pterostilbene Cooperatively Delay Motor Neuron Failure in ALS SOD1 Mice. 2021 , 58, 1345-1371 | 3 |
| 127 | A systematic review of post-translational modifications in the mitochondrial permeability transition pore complex associated with cardiac diseases. 2021 , 1867, 165992 | 7 |
| 126 | The multi-faceted role of mitochondria in the pathology of Parkinson's disease. 2021 , 156, 715-752 | 12 |
| 125 | Nicotinamide adenine dinucleotide: Biosynthesis, consumption and therapeutic role in cardiac diseases. 2021 , 231, e13551 | 8 |
| 124 | Targeting sirtuins to modulate energy metabolism in heart disease. 2021 , 285-293 | 1 |
| 123 | Role of sirtuins in cardiovascular diseases. 2021 , 261-284 | 1 |
| 122 | Cardiac aging. 2021 , 323-344 | |
| 121 | Mitochondrial Content, but Not Function, Is Altered With a Multimodal Resistance Training Protocol and Adequate Protein Intake in Leucine-Supplemented Pre/Frail Women. 2020 , 7, 619216 | 0 |
| 120 | Sirtuins, healthspan, and longevity in mammals. 2021 , 77-149 | 0 |
| 119 | Targeting the Mitochondrial Permeability Transition Pore to Prevent Age-Associated Cell Damage and Neurodegeneration. 2021 , 2021, 6626484 | 9 |
| 118 | Sirtuins and cellular metabolism in cancers. 2021 , 195-217 | 0 |
| 117 | Mitochondria: Novel Mechanisms and Therapeutic Targets for Secondary Brain Injury After Intracerebral Hemorrhage. 2020 , 12, 615451 | 13 |
| 116 | Preconditioning with Short-term Dietary Restriction Attenuates Cardiac Oxidative Stress and Hypertrophy Induced by Chronic Pressure Overload. 2021 , 13, | 1 |
| 115 | The Role of Posttranslational Modification and Mitochondrial Quality Control in Cardiovascular Diseases. 2021 , 2021, 6635836 | 0 |
| 114 | Mitochondrial Dysfunction Increases Arrhythmic Triggers and Substrates; Potential Anti-arrhythmic Pharmacological Targets. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 646932 | 5.4 2 |

| | | |
|-----|--|--------|
| 113 | SIRT3 as a potential therapeutic target for heart failure. 2021 , 165, 105432 | 8 |
| 112 | Aconitine attenuates mitochondrial dysfunction of cardiomyocytes via promoting deacetylation of cyclophilin-D mediated by sirtuin-3. 2021 , 270, 113765 | 4 |
| 111 | NAD Repletion Reverses Heart Failure With Preserved Ejection Fraction. 2021 , 128, 1629-1641 | 28 |
| 110 | Resveratrol Prevents Right Ventricle Dysfunction, Calcium Mishandling, and Energetic Failure via SIRT3 Stimulation in Pulmonary Arterial Hypertension. 2021 , 2021, 9912434 | 3 |
| 109 | Beneficial Effects of Exogenous Ketogenic Supplements on Aging Processes and Age-Related Neurodegenerative Diseases. 2021 , 13, | 2 |
| 108 | Progresses in both basic research and clinical trials of NAD ⁺ in Parkinson's disease. 2021 , 197, 111499 | 1 |
| 107 | MCU-Dependent mROS Generation Regulates Cell Metabolism and Cell Death Modulated by the AMPK/PGC-1 α /SIRT3 Signaling Pathway. 2021 , 8, 674986 | 2 |
| 106 | NAD(H) Regulates the Permeability Transition Pore in Mitochondria through an External Site. 2021 , 22, | 0 |
| 105 | Circadian regulation of cardiac metabolism. <i>Journal of Clinical Investigation</i> , 2021 , 131, | 15.9 3 |
| 104 | Protein acetylation in cardiac aging. 2021 , 157, 90-97 | 0 |
| 103 | Exosomes and Micro-RNAs in Aging Process. 2021 , 9, | 4 |
| 102 | Non-energy mechanism of phosphocreatine on the protection of cell survival. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 141, 111839 | 7.5 2 |
| 101 | Sirtuin 3 deficiency exacerbates age-related periodontal disease. 2021 , 56, 1163-1173 | 3 |
| 100 | A comprehensive review of Sirtuins: With a major focus on redox homeostasis and metabolism. 2021 , 282, 119803 | 13 |
| 99 | Mitochondrial proteins in heart failure: The role of deacetylation by SIRT3. 2021 , 172, 105802 | 3 |
| 98 | Nampt controls skeletal muscle development by maintaining Ca homeostasis and mitochondrial integrity. 2021 , 53, 101271 | 7 |
| 97 | The Mitochondrial Permeability Transition: Nexus of Aging, Disease and Longevity. 2021 , 10, | 12 |
| 96 | Sirtuins as key players in aging and kidney dysfunction. 2021 , 309-328 | |

| | | | |
|----|---|------|-----|
| 95 | Cardiovascular Disease and Aging. 2016 , 121-160 | | 6 |
| 94 | Protein Lysine Acylation: Abundance, Dynamics and Function. 2016 , 41-69 | | 1 |
| 93 | Deacetylation by SIRT3 Relieves Inhibition of Mitochondrial Protein Function. 2016 , 105-138 | | 3 |
| 92 | Mitochondria Lysine Acetylation and Phenotypic Control. 2019 , 1158, 59-70 | | 4 |
| 91 | Non-coding RNAs and Cardiac Aging. 2020 , 1229, 247-258 | | 5 |
| 90 | Ginsenoside Rg1 attenuates isoflurane/surgery-induced cognitive disorders and sirtuin 3 dysfunction. 2019 , 39, | | 8 |
| 89 | Reduction of Elevated Proton Leak Rejuvenates Mitochondria in the Aged Cardiomyocyte. | | 2 |
| 88 | Mitochondrial dysfunction in pathophysiology of heart failure. <i>Journal of Clinical Investigation</i> , 2018 , 128, 3716-3726 | 15.9 | 249 |
| 87 | Particulate matter exposure exacerbates high glucose-induced cardiomyocyte dysfunction through ROS generation. 2011 , 6, e23116 | | 41 |
| 86 | Succinate dehydrogenase is a direct target of sirtuin 3 deacetylase activity. 2011 , 6, e23295 | | 240 |
| 85 | CNS SIRT3 expression is altered by reactive oxygen species and in Alzheimer's disease. 2012 , 7, e48225 | | 87 |
| 84 | Regulation of skeletal muscle oxidative capacity and muscle mass by SIRT3. 2014 , 9, e85636 | | 36 |
| 83 | Genetic and Functional Sequence Variants of the SIRT3 Gene Promoter in Myocardial Infarction. 2016 , 11, e0153815 | | 12 |
| 82 | Modulation of Mitochondrial Membrane Potential and ROS Generation by Nicotinamide in a Manner Independent of SIRT1 and Mitophagy. 2017 , 40, 503-514 | | 45 |
| 81 | SIRT3: Striking at the heart of aging. <i>Aging</i> , 2011 , 3, 1-2 | 5.6 | 43 |
| 80 | Regulation of the mitochondrial transition pore: impact on mammalian aging. <i>Aging</i> , 2011 , 3, 10-1 | 5.6 | 3 |
| 79 | Sirt3 targets mPTP and prevents aging in the heart. <i>Aging</i> , 2011 , 3, 12-3 | 5.6 | 18 |
| 78 | SIRT-ain relief from age-inducing stress. <i>Aging</i> , 2011 , 3, 158-61 | 5.6 | 12 |

| | | | |
|----|--|-----|----|
| 77 | Cardiac fibrosis in mouse expressing DsRed tetramers involves chronic autophagy and proteasome degradation insufficiency. 2016 , 7, 54274-54289 | | 6 |
| 76 | Recent progress in genetics of aging, senescence and longevity: focusing on cancer-related genes. 2012 , 3, 1522-32 | | 21 |
| 75 | Cardiac aging and insulin resistance: could insulin/insulin-like growth factor (IGF) signaling be used as a therapeutic target?. 2013 , 19, 5684-94 | | 21 |
| 74 | Developmental changes of the sensitivity of cardiac and liver mitochondrial permeability transition pore to calcium load and oxidative stress. 2012 , 61, S165-72 | | 11 |
| 73 | Mitochondria and the aging heart. 2011 , 8, 159-67 | | 42 |
| 72 | Effects of Sirt3-autophagy and resveratrol activation on myocardial hypertrophy and energy metabolism. 2020 , 22, 1342-1350 | | 5 |
| 71 | Cellular NAD+Level: A Key Determinant of Mitochondrial Quality and Health. 2017 , 21, 149-157 | | 1 |
| 70 | Serum Sirtuin 1, 3 and 6 Levels in Acute Myocardial Infarction Patients. 2019 , 113, 33-39 | | 6 |
| 69 | Reduction of elevated proton leak rejuvenates mitochondria in the aged cardiomyocyte. <i>ELife</i> , 2020 , 9, | 8.9 | 11 |
| 68 | SIRT3 protects bovine mammary epithelial cells from heat stress damage by activating the AMPK signaling pathway. <i>Cell Death Discovery</i> , 2021 , 7, 304 | 6.9 | 2 |
| 67 | Role of Sirtuins in Regulation of Cardiac Adaptation Associated with Hypertrophy. 2013 , 361-374 | | |
| 66 | Aging-Related Changes in Cell Death and Cell Survival Pathways and Implications for Heart Failure Therapy. 2014 , 339-349 | | |
| 65 | Aging-Associated Alterations in Myocardial Inflammation and Fibrosis: Pathophysiological Perspectives and Clinical Implications. 2014 , 361-375 | | |
| 64 | Calcium-Handling Defects and Changes in Cardiac Function in the Aging Heart. 2014 , 391-399 | | |
| 63 | Sirtuins as Regulators of Cardiac Hypertrophy and Heart Failure. 2016 , 263-282 | | |
| 62 | The Effect of Treadmill Exercise on Sirtuin-3 Expression and Mitochondrial Permeability Transition Pore in the Aged Rat Brain. 2017 , 56, 601-611 | | |
| 61 | Mitochondrial CaMKII causes metabolic reprogramming, energetic insufficiency, and dilated cardiomyopathy. | | |
| 60 | Sirtuin 3 (SIRT3) Pathways in Age-Related Cardiovascular and Neurodegenerative Diseases. 2021 , 9, | | 3 |

| | | | |
|----|--|-----|-----|
| 59 | The mitochondrial permeability transition: Recent progress and open questions. 2021 , | | 12 |
| 58 | Modulation and Pharmacology of the Mitochondrial Permeability Transition: A Journey from F-ATP Synthase to ANT. 2021 , 26, | | 2 |
| 57 | Molecular Mechanisms Underlying the Role of Mitophagy in Neurodegeneration. 2020 , 63-87 | | |
| 56 | Unbiased Proteomics, Histochemistry, and Mitochondrial DNA Copy Number Reveal Better Mitochondrial Health in Muscle of High Functioning Octogenarians. | | |
| 55 | Multifaced role of protein deacetylase sirtuins in neurodegenerative disease. 2021 , 132, 976-976 | | 2 |
| 54 | Aging and Cardiac Fibrosis. 2011 , 2, 158-173 | | 191 |
| 53 | Sirt3 attenuates doxorubicin-induced cardiac hypertrophy and mitochondrial dysfunction via suppression of Bnip3. 2017 , 9, 3360-3373 | | 16 |
| 52 | SNRK: a metabolic regulator with multifaceted role in development and disease. 2020 , 4, | | |
| 51 | Sirtuins at the Service of Healthy Longevity.. 2021 , 12, 724506 | | 2 |
| 50 | New Insights Into the Role of Mitochondria Quality Control in Ischemic Heart Disease.. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 774619 | 5-4 | 5 |
| 49 | Molecular Signaling to Preserve Mitochondrial Integrity against Ischemic Stress in the Heart: Rescue or Remove Mitochondria in Danger.. 2021 , 10, | | 1 |
| 48 | Phloretin attenuation of hepatic steatosis an improvement of mitochondrial dysfunction by activating AMPK-dependent signaling pathways in C57BL/6J mice and HepG2 cells. 2021 , | | 0 |
| 47 | The Protective Effects of Mogroside V Against Neuronal Damages by Attenuating Mitochondrial Dysfunction via Upregulating Sirtuin3.. 2022 , 1 | | 2 |
| 46 | Cyclophilin D regulation of the mitochondrial permeability transition pore.. <i>Current Opinion in Physiology</i> , 2022 , 25, 100486-100486 | 2.6 | 0 |
| 45 | Sirtuin 3: Emerging therapeutic target for cardiovascular diseases.. 2022 , 180, 63-74 | | 1 |
| 44 | Liver cyclophilin D deficiency inhibits the progression of early NASH by ameliorating steatosis and inflammation.. 2022 , 594, 168-176 | | 0 |
| 43 | Targeting the Mitochondrial Permeability Transition Pore for Drug Discovery: Challenges and Opportunities.. <i>Mitochondrion</i> , 2022 , | 4-9 | 1 |
| 42 | Calcium dysregulation in heart diseases: Targeting calcium channels to achieve a correct calcium homeostasis.. 2022 , 177, 106119 | | 4 |

| | | | |
|----|--|------|----|
| 41 | Molecular mechanisms and consequences of mitochondrial permeability transition. 2021 , | | 19 |
| 40 | Versatile role of sirtuins in metabolic disorders: From modulation of mitochondrial function to therapeutic interventions.. 2022 , e23047 | | 0 |
| 39 | Neuroprotective and Behavioral Benefits of Exogenous Ketone Supplementation-Evoked Ketosis. 2022 , 423-465 | | |
| 38 | Therapeutic targets for cardiac fibrosis: from old school to next-gen.. <i>Journal of Clinical Investigation</i> , 2022 , 132, | 15.9 | 4 |
| 37 | Emerging Roles of SIRT3 in Cardiac Metabolism.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 850340 | 5.4 | 0 |
| 36 | FTZ protects against cardiac hypertrophy and oxidative injury via microRNA-214 / SIRT3 signaling pathway.. <i>Biomedicine and Pharmacotherapy</i> , 2022 , 148, 112696 | 7.5 | 1 |
| 35 | Sirtuin 3 and mitochondrial permeability transition pore (mPTP): a systematic review.. <i>Mitochondrion</i> , 2022 , | 4.9 | 0 |
| 34 | Ginsenoside Rg3 Attenuates TNF- α -Induced Damage in Chondrocytes through Regulating SIRT1-Mediated Anti-Apoptotic and Anti-Inflammatory Mechanisms.. <i>Antioxidants</i> , 2021 , 10, | 7.1 | 0 |
| 33 | Sirtuins and Sepsis: Cross Talk between Redox and Epigenetic Pathways.. <i>Antioxidants</i> , 2021 , 11, | 7.1 | 0 |
| 32 | [Frailty syndrome as an independent predictor of adverse prognosis in patients with chronic heart failure].. <i>Kardiologiya</i> , 2022 , 62, 89-96 | 1.5 | |
| 31 | Involvement of Polyamines From Cardiac Mast Cells in Myocardial Remodeling Induced by Pressure Overload Through Mitochondrial Permeability Transition Pore Opening.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 850688 | 5.4 | |
| 30 | Unbiased proteomics, histochemistry, and mitochondrial DNA copy number reveal better mitochondrial health in muscle of high functioning octogenarians.. <i>ELife</i> , 2022 , 11, | 8.9 | 1 |
| 29 | Table_1.docx. 2018 , | | |
| 28 | Recent Advances on Drug Development and Emerging Therapeutic Agents Through Targeting Cellular Homeostasis for Ageing and Cardiovascular Disease. <i>Frontiers in Aging</i> , 2022 , 3, | 2.5 | 1 |
| 27 | The Double-Edged Sword of SIRT3 in Cancer and Its Therapeutic Applications.. <i>Frontiers in Pharmacology</i> , 2022 , 13, 871560 | 5.6 | 0 |
| 26 | Targeting NAD ⁺ : is it a common strategy to delay heart aging?. <i>Cell Death Discovery</i> , 2022 , 8, 230 | 6.9 | 0 |
| 25 | Harnessing NAD Metabolism as Therapy for Cardiometabolic Diseases.. <i>Current Heart Failure Reports</i> , 2022 , | 2.8 | 1 |
| 24 | Mitochondrial lysine acylation and cardiometabolic stress: Truth or consequence?. <i>Current Opinion in Physiology</i> , 2022 , 100551 | 2.6 | |

| | | | |
|----|---|-----|---|
| 23 | Signaling Pathways Related to Oxidative Stress in Diabetic Cardiomyopathy. <i>Frontiers in Endocrinology</i> , 13, | 5.7 | 1 |
| 22 | Cyclophilin D: Guardian or Executioner for Tumor Cells?. <i>Frontiers in Oncology</i> , 12, | 5.3 | |
| 21 | Mitochondrial sirtuin 3 and various cell death modalities. <i>Frontiers in Cell and Developmental Biology</i> , 10, | 5.7 | 1 |
| 20 | Keeping the beat against time: Mitochondrial fitness in the aging heart. <i>Frontiers in Aging</i> , 3, | 2.5 | 1 |
| 19 | Mechanism of histone deacetylases in cardiac hypertrophy and its therapeutic inhibitors. 9, | | 2 |
| 18 | Mitochondrial Dysfunction and Cardiovascular Disease: Pathophysiology and Emerging Therapies. 2022 , 2022, 1-16 | | 0 |
| 17 | The Role of SIRT3 in Exercise and Aging. 2022 , 11, 2596 | | 2 |
| 16 | SIRT3-Mediated CypD-K166 Deacetylation Alleviates Neuropathic Pain by Improving Mitochondrial Dysfunction and Inhibiting Oxidative Stress. 2022 , 2022, 1-17 | | 1 |
| 15 | Role of NAD+ and FAD in Ischemic Stroke Pathophysiology: An Epigenetic Nexus and Expanding Therapeutic Repertoire. | | 0 |
| 14 | Unraveling Parkinson's Disease Neurodegeneration: Does Aging Hold the Clues?. 2022 , 1-18 | | 0 |
| 13 | Diet restriction-induced mitochondrial signaling and healthy aging. 2023 , 587-632 | | 0 |
| 12 | Mitochondrial permeability transition pore-dependent necrosis. 2023 , 174, 47-55 | | 0 |
| 11 | Fasting increases susceptibility to acute myocardial ischaemia/reperfusion injury through a sirtuin-3 mediated increase in fatty acid oxidation. 2022 , 12, | | 0 |
| 10 | Post-translational Modifications of Cyclophilin D Fine-Tune Its Conformational Dynamics and Activity: Implications for Its Mitochondrial Function. | | 0 |
| 9 | The loss of cardiac SIRT3 decreases metabolic flexibility and proteostasis in an age-dependent manner. | | 0 |
| 8 | Advances in Human Mitochondria-Based Therapies. 2023 , 24, 608 | | 0 |
| 7 | Targeting Mitochondria to Control Ageing and Senescence. 2023 , 15, 352 | | 0 |
| 6 | Exercise enhancement by RGS14 disruption is mediated by brown adipose tissue. 2023 , 22, | | 0 |

- 5 The mitochondrial permeability transition pore in Ca²⁺ homeostasis. **2023**, 111, 102719 ○
- 4 Sirtuins and redox signaling interplay in neurogenesis, neurodegenerative diseases, and neural cell reprogramming. 17, ○
- 3 Effect of acute cold exposure on cardiac mitochondrial function: role of sirtuins. ○
- 2 Adenosine monophosphate deaminase in the endoplasmic reticulum-mitochondria interface promotes mitochondrial Ca²⁺ overload in type 2 diabetes rat hearts. **2023**, 14, 560-569 1
- 1 Role of SIRT3 in mitochondrial biology and its therapeutic implications in neurodegenerative disorders. **2023**, 28, 103583 ○