

Bibliography for James R. Stone M.D., Ph.D.

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Peer-Reviewed Publications

Research Investigations

1. Gan, Z, Lewis SD, **Stone JR**, Shafer JA. Reconstitution of catalytically competent human ζ -thrombin by combination of ζ -thrombin residues A1-36 and B1-148 and an *Escherichia coli* expressed polypeptide corresponding to ζ -thrombin residues B149-259. *Biochemistry* 1991;30:11694-11699.
2. **Stone JR**, Marletta MA. Soluble guanylate cyclase from bovine lung: Activation with nitric oxide and carbon monoxide and spectral characterization of the ferrous and ferric states. *Biochemistry* 1994;33:5636-5640.
3. **Stone JR**, Sands RH, Dunham, WR, Marletta MA. Electron paramagnetic resonance spectral evidence for the formation of a pentacoordinate nitrosyl-heme complex on soluble guanylate cyclase. *Biochem. Biophys. Res. Comm.*, 1995;207:572-7.
4. **Stone JR**, Marletta MA. Heme stoichiometry of heterodimeric soluble guanylate cyclase. *Biochemistry* 1995;34:14668-14674.
5. **Stone JR**, Marletta MA. The ferrous heme of soluble guanylate cyclase: Formation of hexacoordinate complexes with carbon monoxide and nitrosomethane. *Biochemistry* 1995;34:16397-16403.
6. **Stone JR**, Marletta MA. Spectral and kinetic studies on the activation of soluble guanylate cyclase by nitric oxide. *Biochemistry* 1996;35:1093-1099.
7. Deinum G, **Stone JR**, Babcock GT, Marletta MA. Binding of nitric oxide and carbon monoxide to soluble guanylate cyclase as observed with resonance Raman spectroscopy. *Biochemistry* 1996;35:1540-1547.
8. **Stone JR**, Sands RH, Dunham WR, Marletta MA. Spectral and ligand-binding properties of an unusual hemoprotein, the ferric form of soluble guanylate cyclase. *Biochemistry* 1996;35:3258-3262.
9. **Stone JR**, Marletta, MA. Synergistic activation of soluble guanylate cyclase by YC-1 and carbon monoxide: Implications for the role of cleavage of the iron-histidine bond during activation by nitric oxide. *Chem. Biol.* 1998;5:255-261.
10. Womer KL, **Stone JR**, Murphy B, Chandraker A, Sayegh MH. Indirect allorecognition of donor class I and II major histocompatibility complex peptides promotes the development of transplant vasculopathy. *J. Am. Soc. Nephrol.* 2001;12:2500-2506.
11. Finn PW, **Stone JR**, Boothby MR, Perkins DL. Inhibition of NF- κ B dependent T cell activation abrogates acute allograft rejection. *J. Immunol.* 2001;167:5994-6001.
12. Rabkin E, Aikawa M, **Stone JR**, Fukumoto Y, Libby P, Schoen FJ. Activated interstitial myofibroblasts express catabolic enzymes and mediate matrix remodeling in myxomatous heart valves. *Circulation* 2001;104:2525-2532.
13. He H, **Stone JR**, Perkins DL. Analysis of robust innate immune response after transplantation in the absence of adaptive immunity. *Transplantation* 2002;73:853-861.
14. **Stone JR**, Maki JL, Blacklow SC, Collins T. The SCAN domain of Znf174 is a dimer. *J. Biol. Chem.* 2002;277:5448-5452.

15. Mckee CM, Defina R, He H, Haley KJ, **Stone JR**, Perkins DL. Prolonged allograft survival in TNF receptor 1-deficient recipients is due to immunoregulatory effects, not to inhibition of direct antigraft cytotoxicity. *J. Immunol.* 2002;168:483-489.
16. Cloud JE, Rogers C, Reza TL, Ziebold U, **Stone JR**, Picard MH, Caron AM, Bronson RT, Lees JA. Mutant mouse models reveal the relative roles of E2F1 and E2F3 in vivo. *Mol. Cell. Biol.* 2002;22:2663-2672.
17. **Stone JR**, Collins T. Rapid phosphorylation of heterogeneous nuclear ribonucleoprotein C1/C2 in response to physiologic levels of hydrogen peroxide in human endothelial cells. *J. Biol. Chem.* 2002;277:15621-15628.
18. Finn PW, He H, Ma C, Mueller T, **Stone JR**, Liou HC, Boothby MR, Perkins DL. Molecular profiling of the role of the NF- κ B family of transcription factors during alloimmunity. *J. Leukocyte Biol.* 2002;72:1054-1062.
19. He H, **Stone JR**, Perkins DL. Analysis of differential immune responses induced by innate and adaptive immunity following transplantation. *Immunol.* 2003;109:185-196.
20. Sander TL, Stringer KF, Maki JL, Szauter P, **Stone JR**, Collins T. The SCAN domain defines a large family of zinc finger transcription factors. *Gene* 2003;310:29-38.
21. **Stone JR**, Maki JL, Collins T. Basal and hydrogen peroxide stimulated sites of phosphorylation in heterogeneous nuclear ribonucleoprotein C1/C2. *Biochemistry* 2003;42:1301-1308.
22. Oestreicher EM, Martinez-Vasquez D, **Stone JR**, Jonasson L, Roubasanthisuk W, Mukasa K, Adler GK. Aldosterone and not plasminogen activator inhibitor-1 is a critical mediator of early angiotensin II/ N^G -nitro-L-arginine methyl ester-induced myocardial injury. *Circulation* 2003;108:2517-2523.
23. **Stone JR**. Intimal hyperplasia in the distal ulnar artery: Influence of gender and implications for the hypothenar hammer syndrome. *Cardiovasc. Pathol.* 2004;13:20-25.
24. Ivanov D, **Stone JR**, Maki JL, Collins T, Wagner G. Mammalian SCAN domain dimer is a domain-swapped homologue of the HIV capsid C-terminal domain. *Molecular Cell* 2005; 17:137-143.
25. Kattapuram T, Yang S, Maki JL, **Stone JR**. Protein kinase CK1 α regulates mRNA binding by hnRNP-C in response to physiologic levels of hydrogen peroxide. *J. Biol. Chem.* 2005; 280:15340-15347.
26. Liu F-F, **Stone JR**, Schuldt AJT, Okoshi K, Okoshi MP, Nakayama M, Ho KKL, Manning WJ, Marchionni MA, Lorell BH, Morgan JP, Yan X. Heterozygous knock out of the neuregulin-1 gene in mice exacerbates doxorubicin-induced heart failure. *Am. J. Physiol. Heart Circ. Physiol.* 2005; 289:H660-H666.
27. Talusan P, Bedri S, Yang S, Kattapuram T, Silva N, Roughley PJ, **Stone JR**. Analysis of intimal proteoglycans in atherosclerosis-prone and atherosclerosis-resistant human arteries by mass spectrometry. *Mol. Cell. Proteomics* 2005; 4:1350-1357.
28. Cury RC, Houser SL, Furie KL, **Stone JR**, Ogilvy CS, Sherwood JB, Muller JE, Brady TJ, Hinton DP. Vulnerable plaque detection by 3.0 tesla magnetic resonance imaging. *Invest. Radiol.* 2006; 41:112-115.

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29. Yoerger DM, Best CA, McQuillan BM, Supple GE, Guererro JL, Cluette-Brown JE, Hasaba A, Picard MH, **Stone JR**, Laposata M. Rapid fatty acid ethyl ester synthesis by porcine myocardium upon ethanol infusion into the left anterior descending coronary artery. *Am. J. Pathol.* 2006; 168:1435-1442.
30. Shaw AT, Meissner A, Dowdle JA, Crowley D, Magendantz M, Ouyang C, Parisi T, Rajagopal J, Blank LJ, Bronson RT, **Stone JR**, Tuveson DA, Jaenisch R, Jacks T. Sprouty-2 regulates oncogenic K-ras in lung development and tumorigenesis. *Genes Dev.* 2007; 21:694-707.
31. Bedri S, Cizek SM, Rastarhuyeva I, **Stone JR**. Regulation of protein kinase CK1 α LS by dephosphorylation in response to hydrogen peroxide. *Arch. Biochem. Biophys.* 2007; 466: 242-249.
32. Cizek SM, Bedri S, Talusan P, Silva N, Lee H, **Stone JR**. Risk factors for atherosclerosis and the development of pre-atherosclerotic intimal hyperplasia. *Cardiovasc. Pathol.* 2007; 16: 344-350.
33. Hinton-Yates DP, Cury RC, Wald LL, Wiggins G, Keil B, Seethmaraju R, Gangadharamurthy D, Ogilvy CS, Dai G, Houser SL, **Stone JR**, Furie KL. 3.0 tesla plaque imaging. *Top. Magn. Reson. Imag.* 2007; 18: 389-400.
34. Ventura A, Young AG, Winslow MM, Lintault L, Meissner A, Erkeland SJ, Newman J, Bronson RT, Crowley D, **Stone JR**, Jaenisch R, Sharp PA, Jacks T. Targeted deletion reveals essential and overlapping functions of the miR-17~92 family of miRNA clusters. *Cell* 2008; 132: 875-886.
35. King JC, Moskowitz IPG, Burgon PG, Ahmad F, **Stone JR**, Seidman JG, Lees JA. E2F3 plays an essential role in cardiac development and function. *Cell Cycle* 2008; 7: 3775-3780.
36. Ricchiuti V, Lian CG, Oestreicher EM, Tran L, **Stone JR**, Yao T, Seely EW, Williams GH, Adler GK. Estradiol increases angiotensin II type 1 receptor in hearts of ovariectomized rats. *J. Endocrinol.* 2009; 200: 75-84.
37. Wu D, Vu Q, Nguyen A, **Stone JR**, Stubbs H, Kuhlmann G, Sholl LM, Iafrate AJ. *In situ* genetic analysis of cellular chimerism. *Nat. Med.* 2009; 15: 215-219.
38. Panchenko MP, Silva N, **Stone JR**. Upregulation of a hydrogen peroxide responsive pre-mRNA binding protein in atherosclerosis and intimal hyperplasia. *Cardiovasc. Pathol.* 2009; 18: 167-172.
39. Collins AB, Smith RN, **Stone JR**. Classification of amyloid deposits in diagnostic cardiac specimens by immunofluorescence. *Cardiovasc. Pathol.* 2009; 18: 205-216.
40. Berman SD, West JC, Danielian PS, Caron AM, **Stone JR**, Lees JA. Mutation of *p107* exacerbates the consequences of *Rb* loss in embryonic tissues and causes cardiac and blood vessel defects. *Proc. Natl. Acad. Sci. USA* 2009; 106: 14932-14936.
41. Stone JH, Khosroshahi A, Hilgenberg A, Spooner A, Isselbacher EM, **Stone JR**. IgG4-related systemic disease and lymphoplasmacytic aortitis. *Arthrit. Rheum.* 2009; 60: 3139-3145.
42. Wilbur DC, Madi K, Colvin RB, Duncan LM, Faquin WC, Ferry JA, Frosch MP, Houser SL, Kradin RL, Lauwers GY, Louis DN, Mark EJ, Mino-Knudson M, Misraji J, Nielsen GP, Pitman MB, Rahemtullah A, Rosenberg AE, Smith RN, **Stone JR**, Tambouret RH, Wu CL, Young RH, Zembowicz A, Klietmann W. Whole slide imaging digital pathology: a pilot study using paired subspecialist correlations. *Archiv. Pathol. Lab. Med.* 2009; 133: 1949-1953.

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43. Bian Y, Sun M, Silver M, Ho KKL, Marchionni MA, Caggiano AO, **Stone JR**, Amende I, Hampton TG, Morgan JP, Yan X. Neuregulin-1 attenuated doxorubicin-induced decrease in cardiac troponins. *Am. J. Physiol. Heart Circ. Physiol.* 2009; 297: H1974-H1983.
44. Stone JH, Khosroshahi A, Deshpande V, **Stone JR**. IgG4-related systemic disease accounts for a significant proportion of thoracic lymphoplasmacytic aortitis cases. *Arthrit. Care Res.* 2010; 62: 316-322.
45. Pojoga LH, Romero JR, Yao TM, Loutraris P, Ricchiuti V, Coutinho P, Guo C, Lapointe N, **Stone JR**, Adler GK, Williams GH. Caveolin-1 ablation reduces the adverse cardiovascular effects of N- ω -nitro-L-arginine methyl ester and angiotensin II. *Endocrinol.* 2010; 151: 1236-1246.
46. Prakash P, Kalra MK, **Stone JR**, Shepard JO, Digumarthy SR. Imaging findings of pericardial metastasis on chest computed tomography. *J. Comput. Assist. Tomograph.* 2010; 34:554-8.
47. Swirski FP, Wildgruber M, Ueno T, Figueiredo JL, Panizzi P, Iwamoto Y, Zhang E, **Stone JR**, Rodriguez E, Chen JW, Pittet MJ, Weissleder R, Nahrendorf M. Myeloperoxidase-rich Ly-6C⁺ myeloid cells infiltrate allografts and contribute to an imaging signature of organ rejection in mice. *J. Clin. Invest.* 2010; 120:2627-34.
48. Panchenko MP, Siddiquee Z, Dombkowski DM, Alekseyev YO, Lenburg ME, Walker JD, MacGillivray TE, Preffer FI, **Stone JR**. Protein kinase CK1 α LS promotes vascular cell proliferation and intimal hyperplasia. *Am. J. Pathol.* (in press).

Reviews

1. Collins T, **Stone JR**, Williams AJ. All in the family: the BTB/POZ, KRAB, and SCAN domains. *Mol. Cell. Biol.* 2001; 21:3609-15.
2. **Stone JR**, Collins T. The role of hydrogen peroxide in endothelial proliferative responses. *Endothelium* 2002; 9:231-238.
3. **Stone JR**. An assessment of proposed mechanisms for sensing hydrogen peroxide in mammalian systems. *Arch. Biochem. Biophys.* 2004; 422:119-124.
4. **Stone JR**, Yang S. Hydrogen peroxide: a signaling messenger. *Antioxidants Redox Signal.* 2006; 8:243-270.

Case Reports

1. Hunsaker RP, **Stone JR**. Renal cell carcinoma extending into the vena cava and right side of the heart. *New Eng. J. Med.* 2001; 345:1676.
2. Lin NU, Sarantopoulos S, **Stone JR**, Galinsky I, Stone RM, Deangelo DJ, Soiffer RJ. Fatal hepatic necrosis following imatinib mesylate therapy. *Blood* 2003;102:3455-3456.
3. Shekar PS, **Stone JR**, Couper GS. Dissecting sub-epicardial hematoma: Challenges to surgical management. *Eur. J. Cardiothoracic Surg.* 2004; 26:850-853.
4. Quan VH, **Stone JR**, Couper GS, Rogers C. Coronary artery perforation by cutting balloon resulting in dissecting subepicardial hematoma and avulsion of the vasculature. *Catheterizat. Cardiovasc. Intervent.* 2005; 64:163-168.

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5. Maree AO, Islam MA, Snuderl M, Lamuraglia GM, **Stone JR**, Olmsted K, Rosenfield KA, Jaff MR. External iliac artery endofibrosis in an amateur runner; hemodynamic, angiographic, histopathological evaluation and percutaneous revascularization. *Vasc. Med.* 2007; 12:203-206.
6. Khosroshahi A, **Stone JR**, Pratt DS, Deshpande V, Stone JH. Painless jaundice with serial multi-organ dysfunction. *Lancet* 2009; 373:1494.
7. Adams E, Aluquin VP, Bingham A, **Stone JR**, Pauliks LB. Cardiac tumor in a juvenile onset Behçet disease, case report and review of the literature. *Ped. Cardiol.* 2010; 31:277-279.
8. Cho JM, Raffel OC, **Stone JR**, Kim CJ, Jang, IK. Spontaneous recanalization of a coronary artery after thrombotic occlusion. In vivo demonstration with optical coherence tomography. *J. Am. Col. Cardiol.* 2010, 55:1274

Non-Peer Reviewed Publications

Case Reports

1. Kathiresan S, Kelsey PB, Steere AC, Foster CS, Curvelo MS, **Stone JR**. A 38-year-old man with fever and blurred vision - Systemic small-vessel vasculitis involving small vessels and small arteries; probably immune-complex vasculitis. *N. Eng. J. Med.* 2005; 352:2003-2012.
2. Dember LM, Shepard JA, Nesta F, **Stone JR**. An 80-year-old man with shortness of breath, edema, and proteinuria - Systemic amyloidosis involving the heart and colon, in the setting of a monoclonal gammopathy; probably AL amyloidosis. *N. Eng. J. Med.* 2005; 352:2111-2119.
3. Binder WD, Fifer MA, King EK, **Stone JR**. A 48-year-old man with sudden loss of consciousness while jogging - Hypertrophic cardiomyopathy. *N. Eng. J. Med.* 2005; 353:824-832.
4. Kay J, Finn DS, **Stone JR**. A 79-year-old woman with fatigue, myalgias, and shortness of breath - Active giant-cell (temporal) arteritis. *N. Eng. J. Med.* 2006; 354:623-630.
5. Iliopoulos O, Chan-Smutko G, Gonzalez RG, Louis DN, **Stone JR**. A 36-year-old man with numbness in the right hand and hypertension - VHL disease with R167Q mutation (type 2), associated with adrenal pheochromocytoma, brain-stem and spinal cord hemangioblastomas, liver hemangiomas, renal cysts, a pancreatic endocrine tumor, and catecholamine-induced myocardial toxicity. *N. Eng. J. Med.* 2006; 355:394-402.
6. Johnson PA, Jaffer FA, Neilan TG, Shepard JA, **Stone JR**. A 72-year-old woman with nausea followed by hypotension and respiratory failure - Acute myocardial infarction (3 to 5 days old) with rupture of the anterolateral papillary muscle. *N. Eng. J. Med.* 2006; 355:2022-2031.
7. Boyer D, Westra SJ, Kinane B, **Stone JR**. A 3-Year-old boy with recurrent episodes of respiratory insufficiency - Pulmonary hemorrhage and hemosiderosis, consistent with idiopathic pulmonary hemosiderosis. *N. Eng. J. Med.* 2007; 356:398-407.
8. Januzzi JL, Garasic JM, Neilan TG, Gonzalez RG, **Stone JR**. A 68-year-old man with syncope – Left atrial myxoma with systemic embolization. *N. Engl. J. Med.* 2007; 357:1137-1145.
9. Sabatine MS, Poh K-K, Mega JL, Shepard JO, **Stone JR**, Frosch MP. A 31-year-old woman with rash, fever, and hypotension – Acute necrotizing eosinophilic myocarditis associated with a systemic necrotizing inflammatory process also involving skeletal muscle, the liver, and the spinal cord, most consistent with a severe drug-induced hypersensitivity reaction. *N. Engl. J. Med.* 2007; 357: 2167-2178.

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10. Semigran MJ, Stevenson LW, Passeri JJ, **Stone JR**. A man with left ventricular dysfunction after heart transplantation – Moderate to severe atherosclerosis of the donor heart with thrombosis of the left anterior descending coronary artery and extensive anterior and septal myocardial infarction. *N. Engl. J. Med.* 2007; 357: 2286-2297.
11. Merkel PA, McCarty D, Sharma A, **Stone JR**. A 39-year old man with chest pain, arthralgias, and a mediastinal mass – Wegener's granulomatosis involving the mediastinum, heart, and pulmonary artery. *N. Engl. J. Med.* 2008; 359: 1603-1614.
12. Brass SD, Durand ML, Stone JH, Chen JW, **Stone JR**. A 59-year-old man with chronic daily headache – Giant-cell arteritis, involving the superficial temporal artery and small dural arteries. *N. Engl. J. Med.* 2008; 359: 2267-2278.
13. Stone JH, Papaliadis GN, Dunbar MR, **Stone JR**. A 53-year old man with arthralgias, oral ulcers, vision loss, and vocal-cord paralysis. *N. Eng. J. Med.* 2010; 362: 537-546.
14. Ng A, Abramson JS, Digumarthy SR, Reingold JS, **Stone JR**. A 56-Year-Old Woman with a History of Childhood Hodgkin's Lymphoma and Sudden Onset of Dyspnea and Shock. *N. Eng. J. Med.* 2010; 363: 62-73.

Consensus Committee Statements

1. Thiene G, Veinot JP, Angelini A, Baandrup UT, Basso C, Bruneval P, Buja LM, Buttany J, d'Amati G, de Gouveia RH, Fallon JT, Fishbein MC, Gallagher PJ, Kholova I, Leone O, McManus B, Rodriguez ER, Schoen FJ, Sheppard MN, **Stone JR**, van der Wal AC, Winters GL. AECVP and SCVP 2009 recommendations for training in cardiovascular pathology. *Cardiovasc. Pathol.* 2010; 19: 129-135.

Book Chapters

1. **Stone JR**, Pless M, Salvarani C, Pipitone N, Lessell S, Stone JH. Giant Cell Arteritis and Polymyalgia Rheumatica, in *A Clinician's Pearls and Myths in Rheumatology*, Springer, 2009 Stone JH ed, pp 285-304.

Letters to the Editor

1. Kinane TB, **Stone JR**, Boyer D. Case 3-2007: A boy with respiratory insufficiency – The discussants reply. *N. Engl. J. Med.* 2007; 356: 2330.
2. Sabatine MS, Mega JL, **Stone JR**. Case 36-2007: A woman with rash, fever, and hypotension – Reply. *N. Engl. J. Med.* 2008; 358: 1406-1407.
3. Stone JH, Brass SD, **Stone JR**. Case 36-2008: A man with chronic daily headache – Reply. *N. Engl. J. Med.* 2009; 360: 1154-1155.

Thesis

Stone, JR. Activation of Soluble Guanylate Cyclase By Nitric Oxide: Spectroscopic and Kinetic Studies Reveal an Unusual Heme Environment [dissertation]. Ann Arbor (MI): University of Michigan; 1997.

Abstracts of Otherwise Unpublished Work

1. Parks KA, Semigran MJ, **Stone JR**. Myocardial upregulation of hnRNP-C predicts short term recovery in patients with acute systolic heart failure. *J. Cardiac Failure* 2009; 15(Suppl 1): S41.
2. Wang H, Smith RN, **Stone JR**. Ascending giant cell aortitis without systemic symptoms is associated with an increased frequency of subsequent of distal aortic events. *Modern Pathol.* 2010; 23(Suppl 1): 85A.