

Curriculum vitae

Date Prepared: Monday, November 21, 2011

Name: **Robert D. Gerard**

Office Address: NB10.218A

Work Phone: (214) 648-4997

Work E-Mail: robert.gerard@utsouthwestern.edu

Work Fax: (214) 648-1450

Place of Birth: Miami, FL

Education

Year	Degree (Honors)	Field of Study (Thesis advisor for PhDs)	Institution
1974	BS (cum laude)	Biology	Case Western Reserve Univ
1982	PhD	Biochemistry (Walter A. Scott)	University of Miami

Postdoctoral Training

Year(s)	Titles	Specialty/Discipline (Lab PI for postdoc research)	Institution
1982-1983	Postdoctoral fellow	Molecular Biology (Walter A. Scott)	University of Miami
1983-1986	Postdoctoral fellow	Molecular Biology (Yakov Gluzman)	Cold Spring Harbor Lab

Current Licensure and Certification

None

Honors and Awards

Year	Name of Honor/Award	Awarding Organization
1980	Earl Sutherland Memorial Prize	University of Miami
1983-1984	Postdoctoral fellowship	Damon Runyon-Walter Winchell Cancer Fund
1984-1986	National Research	Public Health Service

	Service Award	
1988-1993	Established Investigatorship	American Heart Association

Faculty Academic Appointments

Year(s)	Academic Title	Department	Academic Institution
1986-1988	Research Assistant Professor	Internal Medicine and Biochemistry	UT Southwestern
1988-1995	Assistant Professor	Biochemistry and Internal Medicine	UT Southwestern
1995-1998	Hoofddocent (Associate Professor)	Center for Molecular and Vascular Biology	Katholieke Universiteit Leuven, Belgium
2000-present	Associate Professor	Internal Medicine and Molecular Biology	UT Southwestern

Other Professional Positions

Year(s)	Position Title	Institution
1998-2000	Senior Associate Research Scientist	University of Michigan

Major Administrative/Leadership Positions

Year(s)	Position Title	Institution
1995-1998	Adjunct Director, Center for Transgene Technology and Gene Therapy	Flanders Interuniversity Institute for Biotechnology, Leuven, Belgium

Committee Service (*Member, unless noted otherwise*)

Year(s)	Name of Committee	Institution/Organization
<u>UTSW</u>		
2007-present	IBC/BCSAC, Vice-Chair	UT Southwestern
<u>Hospital</u>		
None		
<u>State/Regional</u>		
None		
<u>National/International</u>		
None		

Professional Societies

Dates	Society Name, member
1987-1996	Council on Thrombosis, American Heart Association
1994-1996	American Society for Virology

1992-2011	International Society for Fibrinolysis and Proteolysis
-----------	--

Grant Review Activities

Year(s)	Name of Review Committee	Organization
2000, 1992	Special Studies Section	NIH
1993	NHLBI Special Emphasis Panel (Cystic Fibrosis Gene Therapy)	NIH
1989	Cardiovascular and Renal Studies Section	NIH

Editorial Activities

Year(s)	Journal Name
<u>Editor/Associate Editor</u>	
1991	Molecular Biology and Medicine, guest editor
<u>Editorial Board</u>	
None	
<u>Ad Hoc Reviewer</u>	
1986-present	various (more than 20 different journals)

Grant Support

<u>Present</u>	National Institutes of Health- National Cancer Institute
	Targeted Imaging Using Adenoviral Vectors
	Principal Investigator
	\$171,000
	\$684,000; Aug 2007-July 2012
	National Institutes of Health-National Heart, Lung, and Blood Institute
	Molecular Mechanisms Dictating Sirt1/HIF-2 Signaling During Hypoxia, R01 HL108104
	Collaborating Investigator (Joseph Garcia, PI)
	\$30,660
	\$153,300; 7/01/11-6/30/16

Teaching Activities

<u>Year(s)</u>	<u>Activity</u>
<u>Medical and graduate school didactic and small group teaching</u>	
2004-present	lecturer in UTSW graduate school elective courses in Cancer Biology and Experimental Approaches to Complex Diseases and Gene Therapy

<u>Dissertation committees</u>	
N/A	
<u>Qualifying examination committees</u>	
2009-present	
<u>Committees concerned with medical and graduate student education</u>	
N/A	
<u>Graduate student rotations</u>	
2010	Carlos Gil de Alcazar (summer rotation)
<u>Medical student rotations</u>	
2005-2006	R. Seth Shook
<u>Graduate student trainees</u>	
1990-1994	H. Michael Tucker, PhD
1993-1995	Michael Hammerman, MS
<u>Postgraduate medical education (graduate & continuing medical education)</u>	
<u>Postdoctoral trainees</u>	
<u>Other trainees</u>	
2009	STARS preceptor for Rebecca Masdon-Mercado, high school science teacher
2011	STARS preceptor for Kim Ngo, high school student

Invited Lectures

Year(s)	Title	Location
<u>International</u>		
None		
<u>National</u>		
2002	“Metabolic Engineering and Transcriptional Regulation with Adenovirus Vectors”	Oklahoma Medical Research Foundation, Oklahoma City, OK
2011	“Targeting Adenovirus Gene Transfer to	John Burns School of Medicine,

	Tumors”	University of Hawaii at Manoa
<u>Regional/Local</u>		
2002	“Metabolic Engineering and Transcriptional Regulation with Adenovirus Vectors”	Baylor Institute for Immunology Research, Dallas, TX
2002	“Metabolic Engineering and Transcriptional Regulation with Adenovirus Vectors”	Ambion, Inc., Austin, TX

Technological and Other Scientific Innovations

Innovation
Patent, if any, pending or awarded /If described in print/on web, provide citation
U.S. Patent #5,550,042; Aug. 27, 1996; “Serine Protease Mutants of the Chymotrypsin Superfamily Resistant to Inhibition by their Cognate Inhibitors and Genes Encoding the Same and Serine Protease Inhibitor Mutants and Genes Encoding the Same”
U.S. Patent #5,728,564; Mar. 17, 1998; “uPA Mutants Resistant to Inhibition by their Cognate Inhibitors”
U.S. Patent #5,866,413; Feb. 2, 1999; “PAI-1 Mutants”
U.S. Patent #6,503,498; Jan. 7, 2003; “Apolipoprotein A-1 Adenovirus Vector Compositions and Methods”

Service to the Community

Year(s)	Role	Organization or institution
2007-present	Member	Irving Public Library Board, Irving, TX
2009-2011	Vice-President	Irving Public Library Board, Irving, TX
2011-2013	President	Irving Public Library Board, Irving, TX

Bibliography

Peer-Reviewed Publications

Original Research Articles

1.	Gerard, RD , M Woodworth-Gutai, WA Scott (1982). Deletion mutants which affect the nuclease-sensitive site in simian virus 40 chromatin. Mol. Cell. Biol. 2:782-788. PMID: 6100912
2.	Gerard, RD , BA Montelone, CF Walter, JW Innis and WA Scott (1985). The role of specific simian virus 40 sequences in the nuclease-sensitive structure in viral chromatin. Mol. Cell. Biol. 5:52-58. PMID: 2984555
3.	Gerard, RD and Y Gluzman (1985). A new host cell system for regulated simian virus 40 DNA

	replication. <i>Mol. Cell. Biol.</i> 5:3231-3240. PMID: 3018509
4.	Stillman, B, RD Gerard , RA Guggenheimer, Y Gluzman (1985). T antigen and template requirements for SV40 DNA replication <i>in vitro</i> . <i>EMBO J.</i> 4:2933-2339. PMID: 2998767
5.	Gerard, R and Y Gluzman (1986). Functional analysis of the role of the A+T-rich region and upstream flanking sequences in simian virus 40 DNA replication. <i>Mol. Cell. Biol.</i> 6:4570-4577.
6.	Gerard, RD , RA Guggenheimer and Y Gluzman (1987). Analysis of non-permissivity in mouse cells over-expressing simian virus 40 T antigen. <i>J. Virol.</i> 61:851-857. PMID: 3027411
7.	Gething, M-J, B Adler, J-A Boose, RD Gerard , E Madison, D McGookey, RS Meidell, L Roman, JF Sambrook (1988) Variants of tissue-type plasminogen activator that lack specific structural domains of the heavy chain. <i>EMBO J.</i> 7:2731-2740. PMID: 2846282
8.	Sen, A, P Dunnmon, SA Henderson, RD Gerard , KR Chien (1988). Terminally differentiated neonatal rat myocardial cells proliferate and maintain specific differentiated functions following expression of SV40 large T antigen. <i>J. Biol. Chem.</i> 263:19132-19136. PMID: 3198615
9.	Boose, JA, E Kuismanen, RD Gerard , JF Sambrook, M-J Gething (1989). The single-chain form of tissue-type plasminogen activator has catalytic activity: studies with a mutant enzyme that lacks the cleavage site. <i>Biochemistry</i> 28:635-643.
10.	Madison, E, EJ Goldsmith, RD Gerard , M-J Gething, JF Sambrook (1989). Serpin-resistant mutants of human tissue-type plasminogen activator. <i>Nature</i> 339:721-723. PMID: 2500599
11.	Mohr, IJ, Y Gluzman, MP Fairman, M Strauss, D McVey, B Stillman, RD Gerard (1989). Production of simian virus 40 large tumor antigen in bacteria: altered DNA-binding specificity and DNA replication activity of underphosphorylated large tumor antigen. <i>Proc. Nat. Acad. Sci. USA</i> 86:6479-6483. PMID: 2549538
12.	Franke, AE, DE Danley, FS Kaczmarek, SJ Hawrylik, RD Gerard , SE Lee, KF Geoghegan (1990). Expression of human plasminogen activator inhibitor type-1 (PAI-1) in <i>Escherichia coli</i> as a soluble protein comprised of active and latent forms. Isolation and crystallization of latent PAI-1. <i>Biochim. Biophys. Acta</i> 1037:16-23. PMID: 2403813
13.	Reido, FX, RS Munford, WB Campbell, JS Reisch, KR Chien, RD Gerard (1990) Deacylated lipopolysaccharide inhibits plasminogen activator inhibitor-1, prostacyclin, and prostaglandin E2 induction by lipopolysaccharide but not by tumor necrosis factor- α . <i>J. Immunol.</i> 144:3506-3512. PMID: 2109778
14.	Madison, EL, EJ Goldsmith, RD Gerard , M-JH Gething, JF Sambrook, RS Bassel-Duby (1990) Amino acid residues that affect interaction of tissue-type plasminogen activator with plasminogen activator inhibitor 1. <i>Proc. Natl. Acad. Sci. USA</i> 87:3530-3533. PMID: 2110366
15.	Shubeita, HE, TL Cottey, AE Franke, RD Gerard (1990) Mutational and immunochemical analysis of plasminogen activator inhibitor-1. <i>J. Biol. Chem.</i> 265:18379-18385. PMID: 2120233
16.	Madison, EL, EJ Goldsmith, M-JH Gething, JF Sambrook, RD Gerard (1990) Restoration of serine protease:inhibitor interaction by protein engineering. <i>J. Biol. Chem.</i> 265:21423-21426. PMID: 2123870.
17.	Goldsmith, EJ, C Sheng-Cheng, DE Danley, RD Gerard , KS Geoghegan, J Mottonen, A Strand (1991) Preliminary x-ray analysis of crystals of plasminogen activator inhibitor-1. <i>Proteins: Structure, Function, and Genetics</i> 9:225-227. PMID: 2006140
18.	Mottonen, J, A Strand, J Symersky, RM Sweet, DE Danley, KF Geoghegan, RD Gerard and EJ Goldsmith (1992) Structural basis of latency in plasminogen activator inhibitor-1. <i>Nature</i> 355:270-273. PMID: 1731226
19.	Gómez-Foix, AM, WS Coats, S Baqué, T Alam, RD Gerard , CB Newgard (1992) Adenovirus-mediated transfer of the muscle glycogen phosphorylase gene into hepatocytes confers altered regulation of glycogen metabolism. <i>J. Biol. Chem.</i> 267:25129-25134. PMID: 1334082
20.	Herz, J and RD Gerard (1993) Adenovirus-mediated transfer of low density lipoprotein

	receptor gene acutely accelerates cholesterol clearance in normal mice Proc. Natl. Acad. Sci. U.S.A. 90:2812-2816. PMID: 8464893
21.	Ishibashi, S, MS Brown, JL Goldstein, RD Gerard , RE Hammer, J Herz (1993) Hypercholesterolemia in low density lipoprotein receptor knockout mice and its reversal by adenovirus-mediated gene delivery. J. Clin. Invest. 92:883-893. PMID: 8349823
22.	Alcorn, JL, E Gao, Q Chen, ME Smith, RD Gerard , CR Mendelson (1993) Genomic elements involved in transcriptional regulation of the rabbit surfactant protein-A gene. Mol. Endocrinol. 7:1072-1085. PMID: 8232306
23.	Moliterno, DJ, RA Lange, RS Meidell, JE Willard, CC Leffert, RD Gerard , EA Boerwinkle, HH Hobbs, LD Hillis (1993) Relation of plasma lipoprotein(a) to infarct artery patency in survivors of myocardial infarction. Circulation 88:935-940. PMID: 8353920
24.	McPhaul, MJ, J-P Despleyere, DR Allman and RD Gerard (1993) Adenovirus-mediated delivery of a reporter gene permits the assessment of androgen receptor function in genital skin fibroblast cultures. J. Biol. Chem. 268:26063-26066. PMID: 8253718
25.	Willard, JE, C Landau, DB Glamann, D Burns, ME Jessen, RD Gerard , RS Meidell (1994) Genetic modification of the vessel wall: Comparison of surgical and catheter-based techniques for delivery of recombinant adenovirus. Circulation 89:2190-2197. PMID: 8181144
26.	26. Henry, LJ, D Xia, M Wilke, J Deisenhofer, RD Gerard . (1994) Characterization of the knob domain of the adenovirus 5 fiber protein expressed in <i>E. coli</i> . J. Virol. 68:5239-5246. PMID: 8035520
27.	Kopfler WP, Willard M, Betz T, Willard JE, Gerard RD , Meidell RS (1994) Adenovirus-mediated transfer of a gene encoding human apolipoprotein A1 into normal mice increases circulating high density lipoprotein cholesterol. Circulation 90:1319-1327. PMID: 8087941
28.	Moliterno, DJ, RA Lange, RD Gerard , JE Willard, C Lackner, LD Hillis (1994) Influence of intranasal cocaine on plasma constituents associated with endogenous thrombosis and fibrinolysis. Am. Jour. Med. 96:492-496. PMID: 8017445
29.	Baqué, S, CB Newgard, RD Gerard , JJ Guinovart and AM Gómez-Foix. (1994) Adenovirus-mediated delivery into myocytes of muscle glycogen phosphorylase, the enzyme deficient in patients with glycogen-storage disease type V. Biochem. J. 304:1009-1014. PMID: 7818463
30.	Xia, D, L Henry, RD Gerard , J Deisenhofer (1994) Structure of the adenovirus 5 fiber knob domain at 1.7Å resolution. Structure 2:1259-1270. PMID: 7704534
31.	Tucker, HM, J Mottonen, EJ Goldsmith, RD Gerard (1995) Engineering of plasminogen activator inhibitor-1 to reduce the rate of latency transition. Nature Structural Biology 2:442-445. PMID: 7664104
32.	Varley, AW, M Coulthard, RS Meidell, RD Gerard , RS Munford (1995) Inflammation induced recombinant protein expression in vivo using promoters from acute-phase protein genes. Proc. Natl. Acad. Sci. USA 92:5346-5350. PMID: 7539915
33.	Landau, C, MJ Pirwitz, MA Willard, RD Gerard , RS Meidell, JE Willard (1995) Adenoviral mediated gene transfer to atherosclerotic arteries after balloon angioplasty. Am. Heart Jour. 129:1051-1058. PMID: 7754933
34.	Mitra, M-L, H Alizadeh, RD Gerard , JY Niederkorn (1995) Characterization of a plasminogen activator produced by <i>Acanthamoeba castellanii</i> . Mol. Biochem. Parasitol. 73:157-164. PMID: 8577323
35.	Tucker, HM and RD Gerard (1996) Sequence requirements in the reactive center loop of plasminogen activator inhibitor-1 for recognition of plasminogen activators. Eur J Biochem 237:180-187. PMID: 8620872
36.	Coulthard, MG, J Swindle, RS Munford, RD Gerard , RS Meidell (1996) Adenovirus-mediated transfer of a gene encoding acyloxyacyl hydrolase (AOAH) into mice increases tissue and

	plasma AOA activity. <i>Infection and Immunity</i> 64:1510-1515. PMID: 8613354
37.	Janssens, SP, KD Bloch, Z Nong, RD Gerard , P Zoldhelyi, D Collen. (1996) Adenoviral-mediated transfer of the human endothelial nitric oxide synthase gene reduces acute hypoxic pulmonary vasoconstriction in rats. <i>J Clin Invest</i> 98:317-324. PMID: 8755640
38.	Niranjan, V, S Télémaque, D deWit, RD Gerard , M Yanagisawa. (1996) Systemic hypertension induced by hepatic overexpression of human preproendothelin in rats. <i>J Clin Invest</i> 98:2364-2372. PMID: 8941655
39.	Carmeleit, P, J-M Stassen, I VanVlaenderen, RS Meidell, D Collen, RD Gerard . (1997) Adenovirus-mediated transfer of t-PA augments thrombolysis in t-PA-deficient and PAI-1 overexpressing mice. <i>Blood</i> 90:1527-1534. PMID: 9269770
40.	Ma, D, RD Gerard , X-Y Li, H Alizadeh and J Niederkorn. (1997) Inhibition of metastasis of intraocular melanomas by adenovirus-mediated gene transfer of plasminogen activator inhibitor type 1 (PAI-1) in an athymic mouse model. <i>Blood</i> 90:2738-2746. PMID: 9326241
41.	Carmeliet, P, L Moons, R Lijnen, S Janssens, F Lupo, D Collen, RD Gerard . (1997) Inhibitory role of plasminogen activator inhibitor-1 in arterial wound healing and neointima formation. <i>Circulation</i> 96:3180-3191. PMID: 9386191
42.	Janssens, S, D Flaherty, Z Nong, O Varenne, N Van Pelt, C Haustermans, P Zoldhelyi, RD Gerard and D Collen. (1998) Human endothelial nitric oxide synthase gene transfer inhibits vascular smooth muscle cell proliferation and neointima formation after balloon injury in rats. <i>Circulation</i> . 97:1274-1281
43.	Varenne, O, S Pislaru, H Gillijns, N Van Pelt, RD Gerard , P Zoldhelyi, F Van de Werf, D Collen, S Janssens. (1998) Local adenoviral-mediated transfer of human endothelial nitric oxide synthase reduces luminal narrowing after coronary angioplasty in pigs. <i>Circulation</i> . 98:919-926. PMID: 9738648
44.	Bajou K, A Noël, RD Gerard , N Brunner, C Holst-Hansen, M Skobe, NE Fusenig, P Carmeliet, D Collen, JM Foidart. (1998) Absence of host plasminogen activator inhibitor-1 prevent cancer invasion and vascularization. <i>Nature Medicine</i> . 4:923-928. PMID: 9701244
45.	Praus, M, K Wauterickx, D Collen, RD Gerard . (1999) Reduction of tumor metastasis by adenoviral gene transfer of plasminogen activator inhibitors. <i>Gene Therapy</i> 6:227-236. PMID: 10435107
46.	Rosnoble C, UM Vischer, RD Gerard , J-C Irminger, PA Halban, EKO Kruithof. (1999) Storage of tissue-type plasminogen activator in Weibel-Palade bodies of human endothelial cells. <i>Arteriosclerosis, Thrombosis and Vascular Biology</i> , 19:1796-1803. PMID: 10397700
47.	Varenne O, RD Gerard , P Sinnaeve, H Gillijns, D Collen, S Janssens. (1999) Percutaneous adenovirus gene transfer into porcine coronary arteries- Is catheter-based gene delivery adapted to the coronary circulation? <i>Human Gene Therapy</i> 10:1105-1115. PMID: 10340543
48.	Varenne O, P Sinnaeve, H Gillijns, B Lung, V Laurysens, K Meurrens, B Bout, D Valerio, D Collen, SP Janssens, RD Gerard . (2000) Percutaneous gene therapy using recombinant adenovirus vectors encoding human herpes simplex virus thymidine kinase, human PAI-1 and human NOS3 in balloon-injured porcine coronary arteries. <i>Human Gene Therapy</i> 11:1329-1339. PMID: 10890742
49.	Budts W, P Pokreisz, Z Nong, N Van Pelt, H Gillijns, R Gerard , R Lyons, D Collen, KD Block, S Janssens. (2000) Aerosol gene transfer with inducible NO synthase reduces hypoxic pulmonary hypertension and pulmonary vascular remodeling in rats. <i>Circulation</i> 102:2880-2885.
50.	Bajou K, V Masson, RD Gerard , PM Schmitt, V Albert, M Praus, LR Lund, TL Frandsen, N Brunner, K Dano, NE Fusenig, U Weidle, G Carmeliet, D Loskutoff, D Collen, P Carmeliet, JM Foidart, A Noël. (2001) The plasminogen activator inhibitor PAI-1 controls in vivo tumor

	vascularization by interaction with proteases, not vitronectin: implications for antiangiogenic strategies. <i>J Cell Biol</i> 152:777-784. PMID: 11266468
51.	Lambert V, A Noël, F Frankenne, K Bajou, RD Gerard , P Carmeliet, J-M Foidart, J-M Rakic. (2001) Influence of plasminogen activator inhibitor type 1 on choroidal neovascularization. <i>FASEB J.</i> 15:1021-1027.
52.	Israel B, R Pickles, D Segal, RD Gerard , S Sweeney. (2001) Enhancement of adenoviral vector entry into CD70-positive B cell lines using bispecific CD70/adenovirus fiber antibody. <i>J. Virol.</i> 75: 5215-5221. PMID:11333903
53.	Zoppi S, DR Allman, RD Gerard , MJ McPhaul. (2001) Expression of the human androgen receptor in eukaryotic cells using a recombinant adenovirus vector yields high levels of the soluble, functional receptor protein. <i>J Mol Endocrinol</i> 27:321-328. PMID: 11719284
54.	Van Aken H, RD Gerard , G Verrijdt, A Haelens, W Rombauts, F Claessens. (2001) Tissue-specific androgen responses in primary cultures of lacrimal epithelial cells studied by adenoviral gene transfer. <i>J Ster Biochem Mol Biol</i> 78:319-328. PMID: 11717002
55.	Devy L, S Blacher, C Grignet-Debrus, K Bajou, V Masson, RD Gerard , A Gils, G Carmeliet, P Carmeliet, PJ DeClerck, A Noël, J-M Foidart. (2002) The pro- or anti-angiogenic effect of plasminogen activator inhibitor-1 is dose-dependent. <i>FASEB Jour.</i> 16:147-154. PMID: 11818362
56.	Graf GA, W-P Li, RD Gerard , I Gelissen, A White, JC Cohen and HH Hobbs (2002) Coexpression of ATP-binding cassette proteins ABCG5 and ABCG8 permits their transport to the apical surface <i>J Clin Invest.</i> 110:659-669. PMID: 12208867
57.	Praus M, D Collen, RD Gerard . (2002) Both u-PA inhibitory and vitronectin binding by plasminogen activator inhibitor 1 regulate tumor cell metastasis <i>in vivo</i> . <i>Int J Cancer</i> 102:584-591. PMID: 12447999
58.	Graf GA, L Yu, W-P Li, R Gerard , PL Tuma, JC Cohen, HH Hobbs (2003) ABCG5 and ABCG8 are obligate heterodimers for protein trafficking and biliary cholesterol excretion. <i>J Biol Chem.</i> 278:48275-48282.
59.	Lambert V, C Munaut, P Carmeliet, RD Gerard, PJ Declerck, A Gils, C Claes, JM Foidart, A Noel and JM Rakic. (2003) Dose-dependent modulation of choroidal neovascularization by plasminogen activator inhibitor type I: implications for clinical trials. <i>Investig Ophthalmol Vis Sci.</i> 44:2791-2797. PMID: 12766088
60.	Topp JD, NW Gray, RD Gerard and BF Horazdovsky (2004) Alsln is a Rab5 and Rac1 guanine nucleotide exchange factor. <i>J Biol Chem.</i> 279:24612-24623. PMID: 15033976
61.	Kathiriya IS, IN King, M Murakami, M Nakagawa, JM Astle, KA Gardner, RD Gerard , EN Olson, D Srivastava, O Nakagawa. (2004) Hairy-related transcriptional factors inhibit GATA-dependent cardiac gene expression through a signal-responsive mechanism. <i>J Biol Chem.</i> 279: 54937-54943. PMID: 15485867
62.	Spencer JA, SL Hacker, EC Davis, RP Mecham, RH Knutsen, DY Li, RD Gerard , JA Richardson, EN Olson and H Yanagisawa. (2005). Altered vascular remodeling in fibulin-5 in smooth muscle cell proliferation and migration. <i>Proc Natl Acad Sci. USA</i> 2005:102:2946-2951. PMID: 15710889
63.	Inagaki T, M Choi, A Moschetta, L Peng, A Liverman, A Bookout, G Luo, SA Jones, B Goodwin, JM Shelton, JA Richardson, RD Gerard , JJ Repa, DJ Mangelsdorf, SA Kliewer. (2005) Fibroblast growth factor 15 functions as an enterohepatic signal to regulate bile acid homeostasis. <i>Cell Metab</i> 2:217-225. PMID: 16213224
64.	Garuti R, C Jones, WP Li, P Michaely, J Herz, RD Gerard , JC Cohen, HH Hobbs. (2005) The modular adaptor protein autosomal recessive hypercholesterolemia (ARH) promotes low density lipoprotein receptor clustering into clathrin coated pits. <i>J Biol Chem.</i> 280:40996-41004.

	PMID: 16179341
65.	Zhang D, G Graf, RD Gerard , JC Cohen, HH Hobbs. (2006) Functional asymmetry of nucleotide binding domains in ABCG5 and ABCG8. <i>J Biol Chem</i> 281:4507-4516. PMID: 16352607
66.	Song K, J Backs, J McAnally, X Qi, RD Gerard , JA Richardson, JA Hill, R Bassell-Duby, EN Olson. (2006) The transcriptional coactivator CAMTA2 stimulates cardiac growth by opposing class II histone deacetylases. <i>Cell</i> 125:453-466. PMID: 16678093
67.	Ni YG, K Berenji, N Wang, M Oh, N Sanchan, A Dey, J Cheng, G Lu, DJ Morris, D Castrillon, RD Gerard , BA Rothermel, JA Hill. (2006) FOXO transcription factors blunt cardiac hypertrophy by inhibiting calcineurin signaling. <i>Circ</i> 114:1159-1168. PMID: 16952979
68.	Choi M, A Moschetta, AL Bookout, L Peng, M Umetani, SR Holmstrom, K Suino-Powell, HE Xu, JA Richardson, RD Gerard , DJ Mangelsdorf, SA Kliewer. (2006) Identification of a hormonal basis for gallbladder filling. <i>Nat Med</i> 12:1253-1255. PMID: 17072310
69.	van Rooij E, LB Sutherland, N Liu, AH Williams, J McAnally, RD Gerard , JA Richardson, EN Olson. (2006) A signature pattern of stress-responsive microRNAs that can evoke cardiac hypertrophy and heart failure. <i>Proc Natl Acad Sci. USA</i> 103:18255-18260. PMID: 17108080
70.	Zheng Q, EC Davis, JA Richardson, BL Starcher, T Li, RD Gerard , H Yanagisawa (2007). Molecular analysis of fibulin-5 function during de novo synthesis of elastic fibers. <i>Mol Cell Biol</i> 27:1083-1095. PMID: 17130242
71.	Ivanciu L, RD Gerard , H Tang, F Lupu, C Lupu. (2007) Adenovirus mediated expression of tissue factor pathway inhibitor-2 inhibits endothelial cell migration and angiogenesis. <i>Art, Thromb Vasc Biol</i> 27:310-316. PMID: 17138934
72.	Inagaki T, P Dutchak, G Zhao, X Ding, L Gautron, V Parameswara, Y Li, R Goetz, M Mohammadi, V Esser, JK Elmquist, RD Gerard , SC Burgess, RE Hammer, DJ Mangelsdorf, SA Kliewer. (2007) Endocrine regulation of the fasting response by PPAR α -mediated induction of fibroblast growth factor 21. <i>Cell Metabolism</i> 5:415-425. PMID: 17550777
73.	Whitehurst B, MJ Flister, J Bagaitkar, L Volk, CM Bivens, B Pickett, E Castro-Rivera, RA Brekken., RD Gerard , S Ran. (2007) Anti-VEGF-A therapy reduces lymphatic vessel density and expression of VEGFR-3 in an orthotopic breast tumor model. <i>Int J Canc</i> 121:2181-2191. PMID: 17597103
74.	Ni YG, N Wang, DJ Cao, N Sanchan, DJ Morris, RD Gerard , M Kuro-o, BA Rothermel, J Hill. (2007) FoxO transcription factors activate Akt and attenuate insulin signaling in heart by inhibiting protein phosphatases. <i>Proc Natl Acad Sci. USA</i> 104:20517-20522. PMID: 18077353
75.	Jung D, T Inagaki, RD Gerard , PA Dawson, SA Kliewer, DJ Mangelsdorf, A Moschetta. (2007) FXR agonists and FGF15 reduce fecal bile acid excretion in a mouse model of bile acid malabsorption. <i>J Lipid Res.</i> 48:2693-2700. PMID: 17823457
76.	Vaslatiy O, RD Gerard , P Zhao, X Sun, AD Sherry. (2008) Labeling of adenovirus particles with PARACEST agents. <i>Bioconj Chem</i> 19:598-606. PMID: 18254605
77.	Tannous P, H Zhu, JL Johnstone, JM Shelton, NS Rajasekaran, IJ Benjamin, L Nguyen, RD Gerard , B Levine, BA Rothermel, JA Hill (2008) Autophagy is an adaptive response in desmin-related cardiomyopathy. <i>Proc Natl Acad Sci. USA</i> 105:9745-9750. PMID: 18621691
78.	Dioum EM, R Chen, MS Alexander, Q Zhang, RT Hogg, RD Gerard , JA Garcia. (2009) Regulation of hypoxia inducible factor 2 α signaling by the stress-responsive deacetylase sirtuin 1. <i>Science</i> 324:1289-1293. PMID: 19498162
79.	Espira L, L Lamoureux, SC Jones, RD Gerard , IMC Dixon, MP Czubryt. (2009) The basic helix-loop-helix transcription factor scleraxis regulates fibroblast-mediated collagen synthesis. <i>J Mol Cell Card</i> 47:188-195. PMID: 19362560
80.	Chang AN, G Chen, RD Gerard , KE Kamm, JT Stull. (2010) Cardiac myosin is a substrate for

	zipper-interacting protein kinase (ZIPK). <i>J Biol Chem</i> 285:5122-5126. PMID: 20038585
81.	Hogg RT, JA Garcia, RD Gerard . (2010) Adenoviral targeting of gene expression to tumors. <i>Cancer Gene Ther</i> 17:375-386. PMID: 20139924
82.	Small E, J O'Rourke, V Moresi, L Sutherland, J McAnally, RD Gerard , J Richardson, E Olson. (2010) Regulation of PI3 kinase/akt signaling by muscle-enriched microRNA-486. <i>Proc Natl Acad Sci USA</i> 107:4218-4223. PMID: 20142475
83.	Oh M, A Dey, RD Gerard , JA Hill, BA Rothermel. (2010) The CCAAT/enhancer binding protein beta (C/EBP β) cooperates with NFAT to control expression of the calcineurin regulatory protein <i>RCAN1-4</i> . <i>J Biol Chem</i> 285:16623-16631. PMID: 20371871
84.	Small E, J Thatcher, L Sutherland, H Kinoshita, RD Gerard , J Richardson, M DiMaio, H Sadek, K Kuwuhara, E Olson. (2010) Myocardin-related transcription factor-A controls myofibroblast activation and fibrosis in response to myocardial infarction. <i>Circ Res</i> 107:294-304. PMID: 20558820
85.	Maitra M, Y Wang, RD Gerard , C Mendelson, CK Garcia. (2010) Surfactant protein A2 mutations associated with pulmonary fibrosis lead to protein instability and endoplasmic reticulum stress. <i>J Biol Chem</i> 285:22103-22113. PMID: 20466729
86.	Bekeredjian R, CB Walton, KA MacCannell, J Ecker, F Kruse, JT Outten, D Sutcliffe, RD Gerard , RK Bruick, RV Shohet. (2010) Conditional HIF-1 α expression produces a reversible cardiomyopathy. <i>PLoS ONE</i> 5(7):e11693. PMID: 20657781
87.	Renthal NE, C-C Chen, KC Williams, RD Gerard , J Prange-Kiel, CR Mendelson. (2010) The miR-200 family and targets, <i>Zeb1</i> and <i>Zeb2</i> , modulate uterine quiescence and contractility during pregnancy and labor. <i>Proc Natl Acad Sci USA</i> 107:20828-20833. PMID: 21079000
88.	Hogg, RT, PA Thorpe, RD Gerard . (2011) Retargeting adenoviral vectors to improve gene transfer into tumors. <i>Cancer Gene Ther.</i> 18:275-287. PMID: 21183946
89.	Chen R, EM Dioum, RT Hogg, RD Gerard , JA Garcia. (2011) Hypoxia increases Sirtuin 1 expression in a hypoxia inducible factor-dependent manner. <i>J Biol Chem</i> 286:13869-13878. PMID: 21345792
90.	Pothoff MJ, J Boney-Montoya, M Choi, T He, N Sunny, S Satapati, K Suino-Powell, HE Xu, RD Gerard , BN Finck, SC Burgess, DJ Mangelsdorf, SA Kliewer. (2011) FGF15/19 regulates hepatic glucose metabolism by inhibiting the CREB-PGC-1 α pathway. <i>Cell Metabolism</i> 13:729-738. PMID: 21641554
91.	Pashkov V, J Huang, VK Parameswara, W Kedzierski, DM Kurrasch, GG Tall, V Esser, RD Gerard , K Uyeda, HC Towle, TM Wilke. (2011) Regulator of G protein signaling (RGS16) inhibits hepatic fatty acid oxidation in a carbohydrate response element-binding protein (ChREBP)-dependent manner. <i>J Biol Chem</i> 286:15116-15125. PMID: 21357625
92.	Agarwal AK, S Sukumaran, VA Cortés, K Tunison, D Mizrahi, S Sankella, RD Gerard , JD Horton, A Garg. (2011) Human 1-Acylglycerol-3-phosphate o-acyltransferase isoforms 1 and 2: Biochemical characterization and inability to rescue hepatic steatosis in <i>Agpat2</i> ^{-/-} gene lipodystrophic mice. <i>J Biol Chem</i> 286:37676-37691. PMID: 21873652

Reviews, Chapters, Monographs and Editorials

1.	Gerard, RD , K Chien and RS Meidell (1986). Molecular biology of tissue plasminogen activator and endogenous inhibitors. <i>Mol Biol Med.</i> 3:449-457. PMID: 3112508
2.	Chien, KR, R Meidell and R Gerard (1987). Tissue plasminogen activator: From molecular biology to myocardial infarction. <i>Am J Med Sci.</i> 30:201-207.
3.	Gerard, RD and RS Meidell (1989) Regulation of tissue plasminogen activator expression.

	Ann Rev Physiol. 51:245-262. PMID: 2496643
4.	Meidell, RS, RD Gerard and RS Williams (1992) The end of the beginning: gene transfer into the vessel wall. <i>Circulation</i> 85:1219. PMID: 1537121
5.	Gerard, RD and RS Meidell (1993) Adenovirus-mediated gene transfer. <i>Trends in Cardiovascular Medicine</i> 3:171-177.
6.	Gerard, RD and L Chan. (1996) Adenovirus-mediated gene transfer: strategies and applications in lipoprotein research. <i>Current Opinion in Lipidology</i> 7:105-111. PMID: 8743904
7.	Carmeliet P, L Moons, M Dewerchin, N Mackman, T Luther, G Breier, V Ploplis, M Müller, A Nagy, E Plow, R Gerard , T Edgington, W Risau and D Collen. (1997) Insights in vessel development and vascular disorders using targeted inactivation and transfer of vascular endothelial growth factor, the tissue factor receptor, and the plasminogen system. <i>Ann NY Acad Sci</i> 811: 191-206.
8.	Gerard, RD (1997) Antithrombotic gene therapy. <i>Fibrinolysis</i> 11(suppl 2):171-176.
9.	Gerard, RD and D Collen. (1997) Adenovirus gene therapy for thrombolysis, hypercholesterolemia and restenosis. <i>Cardiovascular Research</i> 35:451-458. PMID: 9415289
10.	Becker, TC, RJ Noel, WS Coats, AM Gómez-Foix, T Alam, RD Gerard and CB Newgard (1994) Use of recombinant adenovirus for metabolic engineering of mammalian cells, in <i>Methods in Cell Biology, Vol. 43, Protein Expression in Animal Cells</i> , M Roth, ed., pp. 161-189, Academic Press, San Diego. PMID: 7823861

Books/Textbooks

1.	Meidell, RS, RD Gerard and JF Sambrook (1992) Molecular Biology of Thrombolytic Agents, in <i>Molecular Basis of Cardiology</i> , pp. 295-324, R. Roberts, ed., Blackwell Scientific, Boston.
2.	Williams, RS, SA Johnston, RS Meidell, JE Willard and RD Gerard (1994) Current prospects for gene therapy of cardiovascular disease, in <i>Genes and Medical Diagnosis and Therapy</i> , E Kurstak, ed., Marcel Dekker, New York.
3.	Gerard, RD and RS Meidell (1995) Adenovirus vectors in <i>DNA Cloning- A Practical Approach: Mammalian Systems</i> , BD Hames and D Glover, eds., pp. 285-307, Oxford University Press, Oxford.
4.	Xia, D, L Henry, RD Gerard and J Deisenhofer (1995) Structure of the receptor binding domain of adenovirus type 5 fiber protein, in <i>Molecular Repertoire of Adenoviruses I</i> , Current Topics in Microbiology and Immunology, W. Doerfler and P Boehm, eds., pp. 39-46, Springer Verlag, Berlin PMID: 7555059
5.	Varenne, O, P Sinnaeve, D Collen, S Janssens and RD Gerard . (1999) Catheter-mediated delivery of adenovirus to the vessel wall to inhibit restenosis, in <i>Cardiovascular Specific Gene Expression</i> , PAFM Doevendans, RS Reneman, M van Bilsen, eds., Kluwer Academic Publishers, Dordrecht, Netherlands

Case Reports

None

Letters to the Editor

None

Proceedings of Meetings

1.	<u>Mendelson, CR, E Gao, ME Smith, RD Gerard and JL Alcorn (1993) Hormonal regulation of</u>
----	---

	<u>surfactant gene expression in fetal lung, in <i>Progress in Endocrinology: The Proceedings of the Ninth International Congress of Endocrinology, Nice, 1992</i>, R Morex, C Jaffiol and J LeClerc, eds., pp. 669-674, Parthenon Publishing, London</u>
--	---

Clinical Practice Guidelines

None

Non-peer reviewed scientific or medical publications/materials in print or other media

None