

**UNIVERSITY OF KANSAS SCHOOL OF MEDICINE**  
**FACULTY CURRICULUM VITAE**

**I. PERSONAL DATA**

Name: David Michael Pinson  
 Current Academic Rank: Clinical Professor of Pathology and Director, LAR  
 Department(s): Pathology and Laboratory Medicine, Laboratory Animal Resources  
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PROFESSIONAL DEVELOPMENT

Undergraduate and Graduate Education

<u>Years (Inclusive)</u>	<u>Degree</u>	<u>Institution</u>
1972-1974	BS (Pre-prof studies) <sup>1</sup>	Clemson University
1974-1978	DVM	University of Georgia
1980-1985	PhD (Exp Pathology) <sup>2</sup>	University of Alabama at B'ham

<sup>1</sup>Pre-professional studies was a degree program offered for pre-veterinary students by Clemson. Those completing the DVM degree were awarded the BS in the year of their veterinary school graduation.

<sup>2</sup>Program included board-preparatory training for ACLAM certification

Post Graduate Education

<u>Years (inclusive)</u>	<u>Area of Study</u>	<u>Institution</u>
1985	Pathology Residency	Auburn University
1985-1986	Pathology Residency	University of Florida

Academic and Professional Appointments and Activities. (List in chronological order. Please explain any discontinuity in professional experience)

<u>Month and Year</u>	<u>Position</u>	<u>Institution</u>
Aug 1985-Sep 1986	Visiting Instructor	University of Florida
Sep 1986-Dec 1987	Research Assistant Scientist	University of Florida
Dec 1987-Apr 1992	Research Assistant Professor	University of Kansas
Apr 1992-Mar 1993	Staff Veterinarian	Southern Research Institute, B'ham AL
Mar 1993 - Mar 1999	Research Assistant Professor	University of Kansas
Jul 1999- July 2000	Clinical Assistant Professor	University of Kansas
Jan 1994 – Mar 2000	Veterinary Medical Officer	KC VAMC
Mar 1994 – Sep 2002	Pathologist-Owner	Veterinary Pathology Consultations
Aug 1998 - Present	President and CEO	Veterinary Lab Resources, Inc.
July 2000 – June 2003	Clinical Associate Professor	University of Kansas

Oct 2000 – Aug 2001	Interim Director	Lab Animal Resources, KUMC
Sep 2001- Present	Director	Lab Animal Resources, KUMC
Oct 2001- Present	Consultant	Midwest Research Institute
Sep 2002-2003	Veterinary Medical Officer	KC VAMC
July 2003 – Present	Clinical Professor	Pathology and Lab Med, KUMC

## Professional Registration/Licensure:

State

Alabama  
Kansas

## Professional Certification(s):

Date

1986  
1990

Board

Diplomate, American College of Veterinary Pathologists  
Diplomate, American College of Laboratory Animal Medicine<sup>1</sup>

<sup>1</sup> Recertification is current.

Note: The American Veterinary Medical Association sanctions veterinary specialty organizations. The certifying entities are referred to as specialty colleges. The colleges administer the certifying examinations and confer diplomate status to those who successfully complete the examinations. The AVMA reviews the eligibility requirements and examination procedures of the individual specialty colleges. Board certification should not to be equated with simple licensure to practice.

## Professional Societies and Affiliations:

Year

1978-Present  
1986-Present  
1990-1994  
1992-1993  
1994-Present  
1996-Present  
1999-Present

Organization (including offices held)

American Veterinary Medical Association  
American Assoc for Lab Animal Science  
American Association of Immunologists  
Alabama Association for Biomedical Research (Treasurer)  
Kansas City Veterinary Medical Association  
Kansas Veterinary Medical Association  
Mid-Continent Assoc Agric, Biomed Res, Edu (Exec Committee)

## Honors and Awards: (honorary societies, research awards, teaching awards etc.)

Research career development award, Macrophage immunobiology and pulmonary inflammation, NIH, K01 RR00037.

Editorial Board and Associate Editor, 2003-2004, *Veterinary Pathology*

Editorial Board, current, *Vaccine Immunology*

**II. TEACHING ACTIVITIES** (Evaluations and other evidence of quality of teaching must be attached)

## Brief statement of areas of teaching interest

Teaching interest is centered on inflammation, immunopathology, and immunodeficiency, areas similar to the research interest outlined below. My philosophy in teaching is to present information in an organized and usable format bringing in relevant clinical and research information where appropriate. Much of my teaching activity was done in veterinary schools early in my career. The limited teaching that I have done in the medical school was limited to laboratories where I assisted in lesion recognition and pathogenesis. When lectures have been given, clinical material was drawn from teaching sets and selected cases obtained in consultation with medical staff. The focus has always been organized lectures, the clinical relevance and practical application of basic science information to clinical practice.

1. Instruction:

Didactic (NOTE: UF = University of Florida).

Year	Course	Title	Instruction type	Hours	Student No.	Type
1985	PAT (UF)	Core Path	Lecture	4	85	Professional
1986	PAT (UF)	Core Path	Lecture	4	85	Professional
1987	PAT (UF)	Core Path	Lecture	4	85	Professional
1990	PAT 388	Pathology	Lecture	1	20	Allied Health
1991	PAT 388	Pathology	Lecture	1	20	Allied Health
1992	PAT 388	Pathology	Lecture	1	20	Allied Health
2004	PAT 851	Pathology	Lecture	2	183	Medical Students

Non-didactic (NOTE: UF = University of Florida)

Year	Course	Title	Instruction type	Hours	Student No.	Type
1985	PAT (UF)	Necropsy	Lab	30 hours/month	5/rotation	Prof
1986	PAT (UF)	Necropsy	Lab	30 hours/month	5/rotation	Prof
1993	PAT 851	Pathology	Precep	3-4 hrs/week	30	Prof
1994	PAT 851	Pathology	Precep	3-4 hrs/week	30	Prof
2004	PAT 851	Pathology	Lecture	4 hours	Medical	Prof
2006	New Curric	Pathology	PBL	6 hours/month	Medical	Prof

Clinical (All work done at University of Florida)

Year	Hours	Student No.	Type	Length of Service
1986	25 hrs/month	4	Path residents	1 year
1987	25 hrs/month	4	Path residents	1 year

## Other teaching activities

LAR Training Activities. The Department of Laboratory Animal Resources training activities are required by federal law. I developed and updated the investigator-technician training program, including the on-line information and testing system. I personally delivered this training for over 2 years and trained the staff to whom this responsibility was delegated. The LAR staff use the AALAS (American Association for Laboratory Animal Science) training program and certifications (ALAT, LAT, LATG).

Surgical pathology. Teaching has included presentation of some relevant veterinary surgical pathology cases to residents and presentation of one case to the Kansas City Society of Pathologists (protothecosis).

## 2. Development of Educational Materials

(course materials e.g. syllabi, educational software packages, Web sites, films, educational tapes and evaluation tools)

See the LAR training activities above. This work includes development of the LAR website ([www.kumc.edu/lar](http://www.kumc.edu/lar)) which has links to the LAR training program.

### III. RESEARCH and SCHOLARLY ACTIVITIES:

Brief statement of areas of research and scholarly interest, including current projects:

Research efforts are collaborative and multi-disciplinary revolving around animal models and immunopathology. Primary efforts are centered on AIDS research with Dr. Bill Narayan (Laboratory of Viral Pathogenesis) and with Dr. Edward Stephens (Anatomy and Cell Biology). A second collaboration is underway with Dr. Steven Levine in the development of projects centered on bone marrow and macrophage transplantation as a treatment for globoid cell leukodystrophy (one funded grant) and metastatic neoplasia. Pathology support is also being provided to Dr. Karl Rozmann in his studies of low dose dioxin exposure and to Dr. Michelle McIntosh (Lawrence campus) in her studies of targeted drug therapy for autoimmune diseases. The Cancer Center has requested my assistance in developing pre-clinical toxicologic pathology support for the Drug Development Program, but no formal program has been advanced by the Cancer Center.

#### 1. Grants and contracts

(Information must include whether the nominee is the principal investigator or a co-investigator, names of all investigators, title of grant, funding source, dollar amount in direct costs, and years during which grant applies. Co-investigators must specify role)

Grants and contracts awarded:  
(List in chronological order)

<u>Principal Investigator</u>	<u>Investigators</u>	<u>Title</u>	<u>Funding Source</u>	<u>Direct Costs</u>	<u>Years</u>	<u>Status</u>
Pinson	Russell Henson Pace Esser Moreland	Macrophage immunobiology and pulmonary inflammation (RCDA)	NIH	\$297,000	1987-1992	Complete
Pinson	None	Regulation of macrophage activation by TGF- $\beta$	Flossie West Memorial Trust	\$20,000	1990-1991	Complete

Narayan	Pinson Foresman	Pathogenesis of visna: a slow demyelinating disease	NIH	\$690,574	1993- 1997	Complete
Stephens	Pinson Gattone Joag	Simian immunodeficiency viral nephropathy	NIH	\$865,304	1994- 1999	Complete
Narayan	Pinson Foresman Joag	Pathogenesis of dementia in SIV- infected macaques	NIH	\$1,182,786	1994- 1997	Complete
Narayan	Pinson	Pathogenesis of dementia in SIV- infected macaques	NIH	\$809,905	1998- 2001	Complete
LeVine	Pinson Pedchenko	Therapeutic interventions for Krabbe's disease	Hunters Hope Foundation	\$100,000	1999- 2001	Complete
Narayan	Pinson	Neuropathogenesis and therapy of SHIV-ku infection	NIH	\$2,007,000	1999- 2004	Active
Pinson	Buch Narayan	Use of macaques to develop a predictable model for HIV pneumonia	Lied Foundation	\$35,000	2002- 2003	Complete
Pinson	Li Culley	Pharmacokinetic study of butyrylcholinesterase in monkeys	Felton Internationa l	\$83,000	2004	Complete
Pinson	Pinson Li Culley	KUMC Laboratory Animal Resources Improvements 1G20RR019519-01	NIH	\$672,297	2004- 2005	Complete

## Grants and contracts submitted:

<u>Principal Investigator</u>	<u>Investigators</u>	<u>Title</u>	<u>Funding Source</u>	<u>Direct Costs</u>	<u>Years</u>	<u>Status</u>
Pinson	Pinson Li Culley	KU Medical Center Cagewash Replacement and Upgrade G120 RR022753- 01	NIH	\$697,000	2006- 2007	Pending. Priority Score 145.

2. Scholarly Publications

Full length, peer-reviewed articles in scientific journals: (Provide names of all authors, year, title, journal, volume, and inclusive pages. List in chronological order.)

Articles published: (Provide 3 photocopies of each article)

Lin S.L., **Pinson D.M.**, Lindsey J.R. Diagnostic Exercise. Lab. Anim. Sci. 34: 353-355, 1984.

**Pinson D.M.**, Schoeb T.R., Lindsey J.R., Davis J.K. Evaluation by scoring and computerized morphometry of lesions of early Mycoplasma pulmonis infection and ammonia exposure in F344/N rats. Vet. Path. 23: 550-555, 1986.

Thompson J.P., Senior D.F., **Pinson D.M.**, Moriello K.M. Neurotoxicity associated with hexachlorophene use in a cat. J. Am. Vet. Med. Assoc. 190: 1311-1312, 1987.

**Pinson D.M.**, Schoeb T.R., Lin S.L., Lindsey J.R. Modulation by ammonium chloride of Mycoplasma pulmonis growth in tracheal organ cultures. Lab. Anim. Sci. 38: 143-147, 1988.

Basu M., Pace J.L., **Pinson D.M.**, Hayes M.P., Trotta P.P., Russell S.W. Purification and partial characterization of the receptor for mouse gamma interferon. Proc. Natl. Acad. Sci. USA. 85: 6282-6286, 1988

Basu M., Pace J.L., **Pinson D.M.**, Russell S.W. A monoclonal antibody against the ligand binding site of the receptor for mouse interferon- $\gamma$ . J. Interferon Res. 9: 551-562, 1989.

Beale K.M., **Pinson D.M.** Phaeohyphomycosis caused by Curvularia species in two animals from the same household. J. Am. An. Hosp. Assoc. 26: 67-70, 1990.

**Pinson D.M.**, Phillips T., Russell S.W. Activation-associated marker proteins: Peptide mapping and their expression in macrophage cell lines. Biochem. Biophys. Res. Commun. 176: 882-886, 1991.

**Pinson D.M.**, LeClaire R.D., Lorsbach R.B., Parmely M.J., Russell S.W. Regulation by TGF- $\beta$ 1 of expression and function of the receptor for inteferon- $\gamma$  on mouse macrophages. J. Immunol. 149: 2028-2034, 1992.

LeClaire R.D., Basu M., **Pinson D.M.**, Pace J.L., Zavodny P.J., Reddick M.L., Russell S.W. Characterization and use of monoclonal and polyclonal antibodies against the mouse inteferon- $\gamma$  receptor. J. Leukocyte Biol. 51: 507-516, 1992.

Joag S.V., Adams R.J., Foresman L., Galbreath D., Zink M.C., **Pinson D.M.**, McClure H., Narayan O. Early activation of PBMC and appearance of antiviral CD8<sup>+</sup> cells influence the prognosis of SIV-induced disease in rhesus macaques. J. Med. Primatol. 23: 108-116, 1994.

Joag S.V., Adams R.J., **Pinson D.M.**, Adany I., Narayan O. Intracerebral infusion of TNF- $\alpha$  and IL-6 failed to activate latent SIV infection in the brain of macaques inoculated with macrophage-tropic neuroadapted SIVmac. J. Leukocyte Biol. 56: 353-357, 1994.

**Pinson D.M.**, Havu N., Mattsson H., Sztern M., Looney G.A., Kimler B.F., Hurwitz A. Drug-induced hypergastrinemia: absence of trophic effects on colonic carcinoma. Gastroenterology 108: 1068-1074, 1995.

Joag S.V., Stephens E.B., Galbreath D., Zhu G.W., Li Z., Foresman L., Zhao L., **Pinson D.M.**, Narayan O. SIVmac chimeric virus whose env gene was derived from SIV-encephalitic brain is macrophage tropic but not neurovirulent. J. Virol. 69: 1367-1369, 1995.

Zhu G.W., Zhen Q.L., Joag S.V., **Pinson D.M.**, Adany I., Narayan O., McClure H.M., Stephens E.B. Pathogenesis of lymphocyte-tropic and macrophage-tropic SIVmac infection in the brain. J. Neurovirol. 1: 78-91, 1995.

- Fan F., **Pinson D.M.**, Rozman K. Immunomodulatory effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) tested by the popliteal lymph node assay. *Toxicologic Pathol.* 23: 513-517, 1995.
- Hurwitz A., Sztern M.I., Looney G.A., **Pinson D.M.**, Bauer K.D., Kimler B.F. Effects of omeprazole on cell kinetics of carcinogen-induced colon tumors in rats. *Cell Prolif.* 28: 525-531, 1995.
- Zhu G.W., Liu Z.Q., Joag S.V., **Pinson D.M.**, Adany I., Narayan O., McClure H.M., Stephens E.B., Localization of lymphocyte tropic simian immunodeficiency virus in the brain is associated with a high mutation rate and nonproductive virus replication. *J. Neurovirol* 1: 78-91, 1995
- Joag S.V., Li Z., Foresman L., Stephens E.B., Zhao L-J., Adany I., **Pinson D.M.**, McClure H.M., Narayan O. Chimeric simian/human immunodeficiency virus that causes progressive loss of CD4+ cells and AIDS in pig-tailed macaques. *J. Virol.* 70: 3189-3197, 1996.
- Stephens E.B., Joag S.V., Sheffer D., Liu Z.Q., Zhao L.-J., Mukherjee S., Foresman L., Adany I., Li Z., **Pinson D.M.**, Narayan O. Initial characterization of viral sequences from a SHIV-inoculated pig-tailed macaque that developed AIDS. *J Med Primatol* 25: 175-185, 1996.
- Pinson D.M.** Clinical Exposures, The Dilemma of Bloody Fine Needle Aspirates, *Veterinary Medicine*, February, pp. 125-128, 1997.
- Pinson D.M.** Clinical Exposures, Urine Sediments and Urothelial Carcinoma, *Veterinary Medicine*, April, pp 330-331, 1997.
- Joag S.V., Adany I., Li Z., Foresman L., **Pinson D.M.**, Wang C., Stephens E.B., Narayan O. Animal model of mucosally transmitted HIV-1 disease: Intravaginal deposition of KU-SHIV in macaques results in systemic infection, elimination of CD4+ T cells, and AIDS. *J Virol* 71: 4016-4023, 1997.
- Joag S.V., Li Z., Foresman L., **Pinson D.M.**, Stephens E.B., Raghavan R., Nave J.F., Casara P., Narayan O. Early treatment with 9-(2-phosphonylmethoxyethyl)adenine reduces virus burdens for a prolonged period in SIV-infected macaques. *AIDS Res Hum Retroviruses* 13: 241-246, 1997.
- Joag S.V., Li Z., Foresman L., **Pinson D.M.**, Raghavan R., Zhuge W, Adany I., Wang C., Jia F., Sheffer D., Ranchalis J., Watson A., Narayan O. Characterization of the pathogenic KU-SHIV model of AIDS in macaques. *AIDS Res Human Retroviruses* 13: 635-645, 1997
- Raghavan R., Stephens E.B., Joag S.V., Adany I., **Pinson D.M.**, Li Z., Jia F., Sahni M., Leung K., Foresman L., Narayan O. Neuropathogenesis of chimeric simian/human immunodeficiency virus infection in pig-tailed and rhesus macaques. *Brain Pathol* 7: 851-861, 1997.
- Pinson DM.** Clinical Exposures: Cytology of deep mycoses. *Veterinary Medicine*, September, pp 775-780, 1997.
- Pope T.W., Raymond L., Foresman L., **Pinson D.M.**, Joag S.V., Marcario J., Berman N.E.J., Raghavan R., Cheney P.D., Narayan O., Wilkinson S., Gordon M.A.. Texture analysis of cerebral white matter in SIV-infected macaque monkeys. *J Neuroscience* 74: 53-64, 1997.
- Pinson DM.** Myocardial necrosis and sudden death after aggressive behavior in a dog. Implications for stress-related sudden death. *J Am Vet Med Assoc* 211: 1371-1374, 1997.

Chebloune Y., Karr B.M., Raghavan R., Singh D., Leung K., Sheffer D., **Pinson D.M.**, Foresman L., Narayan O. Neuroinvasion by ovine lentivirus in infected sheep mediated by inflammatory cells associated with experimental allergic encephalomyelitis. *J Neurovirol* 4: 38-48, 1998.

**Pinson D.M.** Clinical Exposure: Low grade spindle cell tumors. *Veterinary Medicine*, January, pp 27-28, 1998.

**Pinson D.M.** Clinical Exposure: Mycobacteriosis in a cat. *Veterinary Medicine*, May, pp 440-441, 1998.

Joag S.V., Wang C., Jia F., Foresman L., Adany I., **Pinson D.M.**, Stephens E.B., Narayan O. Chimeric SHIV that causes CD4+ T cell loss and AIDS in rhesus macaques. *J Med Primatol* 27: 59-64, 1998.

**Pinson D.M.** Clinical Exposure: Hepatocellular carcinoma in a dog. *Veterinary Medicine*, October, pp 880-884, 1998.

Foresman L, Narayan O, **Pinson D.M.** Diagnostic Exercise: Clinical anemia in a pigtail macaque with AIDS. *Contemporary Topics in Lab An Sci* 38: 20-22, 1999.

Raghavan R., Cheny P.D., Raymond L.A., Joag S.V., Stephens E.B., Adany I., **Pinson D.M.**, Li Z., Marcario J.K., Jia F., Wang C., Foresman L., Berman N.E.J., Narayan O. Morphological correlates of neurological dysfunction in macaques infected with neurovirulent simian immunodeficiency virus. *Neuropathol Appl Neurobiol* 25: 285-294, 1999.

**Pinson D.M.** Clinical Exposures: Fine needle aspiration cytology of disseminated pulmonary adenocarcinoma in a cat. *Veterinary Medicine*, November, pp 950-952, 1999.

LeVine S.M., Pedchenko T.V., Bronshteyn I.G., **Pinson D.M.** L-cycloserine slows the clinical and pathological course in mice with globoid cell leukodystrophy (Twitcher Mice). *J Neurosci Res* 60:231-236, 2000.

McCormick-Davis C., Dalton S.B., Hout D.R., Singh D.K., Berman N.E., Yong C., **Pinson D.M.**, Foresman L., Stephens E.B. A molecular clone of simian-human immunodeficiency virus (DeltavpusSHIV(KU1bMC33) with a truncated, non-membrane bound vpu results in rapid CD4(+) T cell loss and neuro-AIDS in pig-tailed macaques. *Virology* 272:112-126, 2000.

Buch S, **Pinson D.M.**, Hou Y., Adany I., Li Z., Mukherjee S., Jia F., Mackay G., Silverstein P., Kumar A., Narayan O. Neuropathogenesis of chimeric simian human immunodeficiency virus infection in rhesus macaques. *J Med Primatol* 29: 96-106, 2000.

Singh D.K., McCormick C., Pacyniak E., Lawrence K., Dalton S.B. **Pinson D.M.**, Sun F., Berman N.E.J., Calvert M., Gunderson R.S., Wong S.W., Stephen E.B. A simian human immunodeficiency virus with a non-functional vpu ( $\Delta vpuSHIV_{KU-1bMC33}$ ) isolated from a macaque with neuroAIDS has selected for mutations in Env and Nef that contributed to its pathogenic phenotype. *Virology* 282: 123-140, 2001.

Buch S., **Pinson D.**, King C.L., Raghavan R., Hou Y., Li Z., Adany I., Hicks A., Villinger F., Kumar A., Narayan O. Inhibitory and enhancing effects of IFN-gamma and IL-4 on SHIV(KU) replication in rhesus macaque macrophages: correlation between Th2 cytokines and productive infection in tissue macrophages during late-stage infection. *Cytokine* 13(5): 295-304, 2001.

Biswas S., **Pinson D.M.**, Bronshteyn I.G., LeVine S.M. IL-6 deficiency allows for enhanced therapeutic value after bone marrow transplantation across a minor histocompatibility barrier in the twitcher (globoid cell leukodystrophy) mouse. *J. Neurosci. Res.* 65:298-307, 2001.

Stephens EB, McCormick C, Pacyniak E, Griffin D, Pinson DM, Sun F, Nothnick W, Wong, SW, Gunderson R, Berman NE, Singh DK. Deletion of the vpu sequences prior to the env in a simian-human immunodeficiency virus results in enhanced Env precursor synthesis but is less pathogenic for pig-tailed macaques. *Virology* 293: 252-261, 2002.

Singh DK, McCormick C, Pacyniak E, Griffin D, Pinson DM, Sun F, Berman NE, Stephens EB. Pathogenic and nef-interrupted simian-human immunodeficiency viruses traffic to the macaque CNS and cause astrocytosis early after inoculation. *Virology* 296: 39-51, 2002.

Hicks A, Potula R, Sui YJ, Villinger F, **Pinson D**, Adany I, Li Z, Long C, Cheney P, Marcario J, Novembre F, Mueller N, Kumar A, Major E, Narayan O, Buch S. Neuropathogenesis of Lentiviral Infection in Macaques : Roles of CXCR4 and CCR5 Viruses and Interleukin-4 in Enhancing Monocyte Chemoattractant Protein-1 Production in Macrophages. *Am J Pathol.* 161(3):813-22, 2002.

Buch SJ, Villinger F, **Pinson D**, Hou Y, Adany I, Li Z, Dalal R, Raghavan R, Kumar A, Narayan O. Innate differences between simian-human immunodeficiency virus (SHIV)(KU-2)-infected rhesus and pig-tailed macaques in development of neurological disease. *Virology.* 295(1):54-62, 2002.

Smith MS, Niu Y, Li Z, Adany I, **Pinson DM**, Liu Z, Berry T, Narayan O. Systemic infection and limited replication of SHIV vaccine virus in brains of macaques inoculated intra-cerebrally with infectious viral DNA. *Virology* 301:130-135, 2002.

Sun F, Wright D, **Pinson DM**. Comparison of ketamine versus ketamine and medetomidine as an injectable anesthetic protocol: depth of anesthesia in macaques and tissue reaction in rats. *Contemporary Topics* 42 (4): 32-37, 2003.

Singh DK, Griffin DM, Pacyniak E, Jackson M, Werle MJ, Wisdom B, Sun F, Hout DR, **Pinson DM**, Gunderson RS, Powers MF, Wong SW, Stephens EB. The presence of the casein kinase II phosphorylation sites of Vpu enhances the CD4(+) T cell loss caused by the simian-human immunodeficiency virus SHIV(KU-1bMC33) in pig-tailed macaques. *Virology.* 313(2):435, 2003.

Sui Y, Potula R, **Pinson D**, Adany I, Li Z, Day J, Buch E, Segebrecht J, Villinger F, Liu Z, Huang M, Narayan O, Buch S. Microarray analysis of cytokine and chemokine genes in the brains of macaques with SHIV-encephalitis. *J Med Primatol.* 32(4-5):229-39, 2003.

Sui Y, Potula R, Dhillon N, **Pinson D**, Li S, Nath A, Anderson C, Turchan J, Kolson D, Narayan O, Buch S. Neuronal apoptosis is mediated by CXCL10 overexpression in simian human immunodeficiency virus encephalitis. *Am J Pathol* 164 (5): 1557-66, 2004.

Buch S, Sui Y, Potula R, **Pinson D**, Adany I, Li Z, Huang M, Li S, Dhillon N, Major E, Narayan O. Role of interleukin 4 and monocyte chemoattractant protein 1 in the neuropathogenesis of X4 simian human immunodeficiency virus infection in macaques. *J Neurovirol* 10: 118-124, 2004.

Hout DR, Gomez ML, Pacyniak E, Mulcahy ER, Gomez LM, Jackson M, Flick M, Fegley B, McCormick C, Wisdom B, Culley N, **Pinson DM**, Powers M, Wong SW, Stephens EB. Fusion of upstream vpu sequences to the env of simian human immunodeficiency virus (SHIV KU1bMc33) results in synthesis of two envelope precursor proteins, increased number of virus particles associated with the cell surface and is pathogenic for pig-tailed macaques. *Virology* 323: 91-107, 2004.

White RA, McNulty SG, Roman S, Garg U, Wirtz E, Kohlbrecher D, Nusumu NN, **Pinson DM**, Gaedigk R, Blackmore K, Copple A, Rasul S, Watanabe M, Shimizu K. Chromosomal localization, hematologic characterization, and iron metabolism of the hereditary erythroblastic anemia (hea) mutant mouse. *Blood* 104(5): 1511-1518, 2004.

Potula R, Dhillon N, Sui Y, Zien CA, Funa K, **Pinson D**, Mayo MS, Singh DK, Narayan O, Buch S. Association of platelet derived growth factor chain with simian-human immunodeficiency virus encephalitis. *Am J Pathol* 165(3): 815-824, 2004.

Buch S, Sui Y, Dhillon N, Potula R, Zien C, **Pinson D**, Li S, Dhillon S, Nicolay B, Sidelnik A, Li C, Villinger F, Bisarriya K, Narayan O. Investigations on four host response factors whose expression is enhanced in X4 SHIV encephalitis. *J Neuroimmunol* 157: 71-80, 2004.

Dhillon, NK, Sui Y, Potula R, Dhillon S, Adany I, Li Z, Villinger F, **Pinson D**, Narayan O, Buch, S. Inhibition of pathogenic SHIV replication in macaques treated with antisense DNA of interleukin-4. *Blood* 105: 3094-3099, 2005.

Sui Y, Li S, **Pinson D**, Adany I, Li Z, Villinger F, Narayan O, Buch S. Simian human immunodeficiency virus-associated pneumonia correlates with increased expression of MCP-1, CXCL10, and viral RNA in the lungs of rhesus macaques. *American J Pathology* 166: 355-365, 2005.

Rozman KK, Lebofsky M, **Pinson DM**. Chronic toxicity and carcinogenicity of 1,2,3,4,6,7,8-heptachlorodibenzo-dioxin displays a distinct dose/time toxicity threshold ( $cxt=k$ ) and a life-prolonging subthreshold effect. *Food Chem Toxicol* 43: 729-740, 2005.

Vanden Heuvel GB, Brantley JG, Alcalay NI, Sharma M, Kemeny G, Warolin J, Ledford AW, **Pinson DM**. Hepatomegaly in transgenic mice expressing the homeobox gene Cux-1. *Mol Carcinog* 43: 18-30, 2005.

Smith MS, Niu Y, Buch S, Li Z, Adany I, **Pinson DM**, Potula R, Novembre FJ, Narayan O. Active simian immunodeficiency virus (strain smmPGM) infection in macaque central nervous system correlates with neurologic disease. *J Acquir Immune Defic Syndr* 38: 518-530, 2005.

Culley NC, **Pinson DM**, Chakrabarty A, Mayo MS, LeVine SM. Pathophysiological manifestations in mice exposed to anthrax lethal toxin. *Infection and Immunity* 73: 7006-7010, 2005.

Saghir SA, Lebofsky M, **Pinson DM**, Rozman KK. Validation of Haber's rule (dose x time = constant) in rats and mice for monochloroacetic acid and 2,3,7,8-tetrachlorobenzene-p-dioxin under conditions of kinetic steady state. *Toxicology* 215: 48-56, 2005.

Sui Y, Stehno-Bittel L, Li S, Loganathan R, Dhillon NK, **Pinson D**, Nath A, Kolson D, Narayan O, Buch S. CXCL10-induced cell death in neurons: role of calcium dysregulation. *Eur J Neurosci*. 2006 Feb;23(4):957-64.

Gaedigk R, Law DJ, Fitzgerald-Gustafson KM, McNulty SG, Nusumu NN, Modrcin AC, Rinaldi RJ, **Pinson D**, Fowler SC, Bilgen M, Burns J, Hauschka SD, White RA. Improvement in survival and muscle function in an *mdx/utrn(-/-)* double mutant mouse using a human retinal dystrophin transgene. *Neuromuscul Disord*. 2006 Mar;16(3):192-203.

Hout DR, Gomez ML, Pacyniak E, Gomez LM, Fegley B, Mulcahy ER, Hill MS, Culley N, **Pinson DM**, Nothnick W, Powers MF, Wong SW, Stephens EB. Substitution of the transmembrane domain of Vpu in simian-human immunodeficiency virus (SHIVKU1bMC33) with that of M2 of influenza A results in a virus that is sensitive to inhibitors of the M2 ion channel and is pathogenic for pig-tailed macaques. *Virology*. 2006 Jan 20;344(2):541-59

Dhillon NK, Dhillon S, Chebloune Y, Pinson D, Villinger F, Kumar A, Narayan O, Buch S. Therapy of SHIV infected macaques with liposomes delivering antisense interleukin-4 DNA. *AIDS* 20: 1125-30, 2006.

Dhillon NK, Pinson D, Dhillon S, Tawfik O, Danley M, Davis M, Nemon O, Mayo M, Kumar A, Tsai YJ, Buch S. Bleomycin treatment causes enhancement of virus replication in the lungs of SHIV infected macaques. *Am J Physiol Lung Cell Mol Physiol*. Jan 2007. Need full citation.

Dhillon NK, Sui Y, Pinson D, Li S, Dhillon S, Tawfik O, Callen S, Nemon O, Narayan O, Buch S. Upregulation of expression of platelet derived growth factor and its receptor in pneumonia associated with SHIV-infected macaques. *AIDS* 21: 307-316, 2007.

Manuscripts in press: (Provide names of all authors, title, journal, and **3 photocopies of manuscript plus evidence of acceptance by journal**)

Rozman KK, Lebofsky M, Pinson DM, Doull J, Rozman TA. Subchronic toxicity of n-propyl bromide in female Sprague Dawley rats. Submitted.

Manuscripts submitted but not yet accepted: (Provide names of all authors, title, journal, and **3 photocopies plus evidence of receipt of manuscript by journal.**)

Books and book chapters: (Provide names of all authors, year, book title, chapter title, edition, publisher, and pages. If in press, provide documentation.)

**Pinson D.M.**, Russell S.W. The roles of colony-stimulating factors and interferons in the inflammatory process. In *Handbook of Inflammation*, Vol.6. Eds. P.M. Henson, R.C. Murphy, Elsevier, Amsterdam, 1989, pp 301-337.

Published abstracts: (Provide names of all authors, year, title, where published, volume, and pages.)

**Pinson D.M.**, LeClaire R.D., Lorsbach R.B., Parmely M.J., Russell S.W. Regulation by TGF- of expression and function of the receptor for interferon-( on mouse macrophages. 1992 FASEB meetings, Anaheim, CA. *FASEB J* 6: A1205, 1992.

**Pinson D.M.**, Joag S.V., Stephens E.B., Zink C., Clements J., Naryan O. Antigenic drift in an SIV-infected macaque: Loss of variant-selecting antibodies associated with amyloid-like material in lymphatic tissues. 1993 meeting of the American College of Veterinary Pathologists, San Antonio, TX. *Vet Pathol* 30: 456, 1993.

Gattone V.H., **Pinson D.M.**, Stephens E.B., Joag S.V., Narayan O. Association of dual tropic simian immunodeficiency virus (SIV) with glomerulosclerosis in macaques. 1994 meeting of the American Society of

Joag S.V., Stephens E.B., Li Z., Foresman L., **Pinson D.M.**, Adany I., Zhao L.-J., McClure H.M., Narayan O. Derivation of pathogenic SIV-HIV chimeric virus that causes progressive loss of CD4 T cells and AIDS in pig-tailed macaques. 1995. 13th Annual Symposium on Nonhuman Primate Models for AIDS, 132, Monterey, CA.

Narayan O., Joag S.V., Stephens E., Foresman L., Li Z., Zhao L., **Pinson D.**, Liu Z.Q., Sheffer D., Mukherjee S. Development and initial characterization of virulent SHIV. Proceedings of the 10th Colloque des Cent Gardes, Paris, October 1995. Elsevier Press, Publishers.

Smith M.S., **Pinson D.M.**, Foresman L.L., Li Z., Adany I., Chandran B., Narayan O. Vascular tumors in a rhesus macaque associated with rhesus rhadinovirus. First annual meeting of KSHV and Related Agents, University of Southern California, Santa Cruz, July 25-28, 1998.

White R.A., Hummel G.S., Copple A., Shimizu H., Kohlbrecher D., **Pinson D.M.**, Garg U., Watanabe M. Characterization and chromosomal mapping of the hereditary erythroblastic anemia (hea) mouse mutation: a potential iron transport defect. American Society of Hematologists, 1998.

Rozman K.K, Lebofsky M., **Pinson D.M.** Anemia and lung cancer in 1,2,3,4,6,7, 8-hepta-chlorodibenzo-p-dioxin (HpCdd)-treated female Sprague-Dawley rats after various single and multiple oral doses. Annual Meeting of the Society of Toxicology, March 2000, Philadelphia.

Berman NEJ, McCormick-Davis C, Choudhuri R, Cui L, **Pinson DM**, Singh DK, Stephens EB. Cytokine gene expression in the SHIV model of NeuroAIDS. Soc. For Neurosci. Abs. 26: 1062 (Abstract #398.7), 2000.

McIntosh, MP, Yakovleva T, **Pinson DM**, Ikesue A, Siahaan TJ, Rajewski RA. ICAM-1 peptide-MTX conjugate targets drug delivery to activated T-cells in a collagen-induced arthritis murine model. American Association of Pharmaceutical Scientists, 2002.

Chronic Toxicity Including Carcinogenicity of HpCDD Obeys the  $c \times t = k$  Paradigm KK Rozman, M Lebofsky, **DM Pinson** University of Kansas Medical Center, Departments of Pharmacology, Toxicology and Therapeutics, and Pathology, Kansas City, KS; GSF-Institut für Toxikologie, Neuherberg, Germany

Sara S. Oberhelman<sup>1</sup>, John Paul Armilio<sup>1</sup>, Gerald H. Lushington<sup>3</sup>, Nathan C. Culley<sup>2</sup>, **David M. Pinson<sup>2</sup>**, Anuradha Chakrabarty<sup>1</sup>, Steven M. LeVine<sup>1</sup>. Pathophysiology of Anthrax Lethal Toxin. Midwest Regional Center of Excellence in October 2005

### 3. Presentations and posters

Oral paper presentations: (Provide names of all authors, title, sponsoring organization, extent of peer-review, and location and date of presentation.)

Pinson D.M. Cytology Skills. Invited presentation at the Central Veterinary Conference, Kansas City MO, August 21 – 24, 1999 (National Meeting 3000+ total attendees), clinician training, no peer review.

Pinson D.M. Cytology Skills. Invited presentation at the Central Veterinary Conference, Kansas City MO, August 26-27, 2000 (National Meeting), clinician training, no peer review.

Pinson D.M. Cytology Skills. Invited presentation at the Central Veterinary Conference, Kansas City MO, Aug 25-

Pinson D.M. Cytology Skills. Invited presentation at the Central Veterinary Conference, Kansas City MO, Aug 19-20, 2002 (National Meeting), clinician training, no peer review.

Pinson, DM. Cytology Skills. Invited presentation at the Central Veterinary Conference, Kansas City MO, Aug 25, 2003 (National Meeting), clinician training, no peer review.

Pinson, DM. Cytology Skills. Invited presentation at the Central Veterinary Conference, Kansas City MO, Aug 2004 (National Meeting), clinician training, no peer review.

Pinson, DM. Cytology Skills. Invited presentation at the Central Veterinary Conference, Kansas City MO, Aug 29, 2005.

Scientific papers presented at national and international meetings:

Pinson D.M., LeClaire R.D., Lorsbach R.B., Parmely M.J., Russell S.W. Regulation by TGF-beta of expression and function of the receptor for interferon-gamma on mouse macrophages. 1992 FASEB meetings, AAI, Anaheim, CA.

Scientific papers presented at local and regional meetings:

Pinson D.M. Immunocompromised people and their pets. Zoonotic diseases of concern. Invited presentation at the annual meeting of the Kansas Veterinary Medical Association (state association), Overland Park, KS, 1996.

Pinson D.M. Immunocompromised people and their pets. Zoonotic diseases of concern. Invited presentation at the annual meeting of the Missouri Veterinary Technicians Association (state association), Tan Tar-A Resort, Missouri, 1997.

Pinson D.M. Hepatitis B and HIV. Putting the public health first. Invited presentation at the annual meeting of the Kansas Veterinary Medical Association, Overland Park, 1998.

Pinson D.M. The clinician pathologist team. Making for smooth sailing. Invited presentation at the annual meeting of the Kansas Veterinary Medical Association, Wichita, 1999.

Poster presentations: (Provide names of all authors, title, sponsoring organization, extent of peer-review and location and date of presentation.)

Poster presentations at national and international meetings:

Pinson D.M., Phillips T., Russell S.W. Macrophage activation-associated proteins: expression in macrophage cell lines and cell types other than macrophages. 1990 joint meeting of the American Society for Biochemistry and the American Association of Immunologists, New Orleans, LA. FASEB J 4: A1754, 1990.

K.K.Rozman, M.Lebofsky, D.M.Pinson. Anemia and Lung Cancer in 1,2,3,4,6,7,8 -Heptachlorodibenzo-p-dioxin(HpCDD)-treated Rats after Various Single and Multiple Oral Doses. The Toxicologist,54:277,2000. 39th Annual Meeting of the Society of Toxicology, Philadelphia, March 19-25,2000.

McIntosh MP, Yakovleva T, Pinson DM, Ikesue A, Siahaan TJ, Rajewski R. ICAM-1 peptide-MTX conjugate targets drug delivery to activated T cells in collagen-induced arthritis murine model. American Association of Pharmaceutical Scientists, 2002 AAPS Annual Meeting, November 10-14, 2002, Toronto, Ontario, Canada .

Invited seminars at other universities: (Provide title, sponsoring organization or institution, and date of presentation.)

Summary of ongoing research projects, Kansas State University, February 14, 2002.

Michelle P. McIntosh, Mehmet Tanol, Nancy Schwarting, David M. Pinson, Steven C. Fowler and Roger A. Rajewski. Targeted methotrexate delivery to activated T-cells via LFA-1 receptors in relapsing and remitting experimental autoimmune encephalomyelitis reduces relapse severity. National Biotechnology Conference, San Francisco, June 2005 (submitted)

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#### IV. SERVICE ACTIVITIES:

See guidelines and instruction to applicants for definitions and suggested documentation of professional and academic service.

##### Professional Service:

KUMC. Professional service at KUMC includes providing clinical, pathology and administrative support for Laboratory Animal Resources. Service now includes the directorship of Laboratory Animal Resources with significant supervisory and administrative responsibilities, including IACUC management; re-write of departmental SOPs, training manuals, delivery of departmental training programs, and development of per-diem analysis routines and management of departmental accounting. I am on call at all times (24 hours a day, 7 days a week) for clinical and pathology support to the animal care program of KUMC and to the research program of the Marion Merrell Dow Laboratory. Service also includes rotating call for clinical and physical plant emergencies at the Laboratory Animal Resources building.

CLINICAL SERVICE. In 1994, I developed a private surgical pathology practice for veterinarians in the metropolitan Kansas City area. It was an administrative requirement that this enterprise be separate physically, financially and administratively from the university. I have provided complete pathology services for over 240 local veterinarians in 116 practices. These services include surgical pathology, fine needle aspiration cytology, and gross and microscopic necropsy pathology. Courier service is provided locally by Physicians Reference Laboratory. Work includes clinical consultations, history summary, gross findings, microscopic findings, diagnoses, and comments. Formal legal reports are mailed and faxed, as requested. Turn-around on almost all biopsies and cytologies is 24-48 hours. Turn around on necropsy pathology is 1 week. The practice also includes consults for medico-legal cases. Negotiation for the directorship of LAR resulted in the return of all surgical pathology funds to the LAR. This practice income returns about 30% of the director's salary to the department.

##### Academic Service:

Attending Veterinary Services. The Department of Laboratory Animal Resources is currently under contract with the VA Medical Center and Midwest Research Institute for provision of attending veterinarian services. Both of these contracts bring income into the department.

Young Investigator Competition Committee, American College of Veterinary Pathologists; Judge, 1990 meeting, Phoenix AZ; Judge, 1991 meeting, Orlando FL; Chairman of Committee, 1992 meeting, San Diego CA; Chairman of Committee, 1993 meeting, San Antonio TX

Reviewer, *Veterinary Pathology*, 1992-present.

Ad Hoc grant review committee, National Center for Research Resources, NIH, February 1993.

Ad hoc grant reviewer, United States Department of Agriculture, Program 44.0, Mechanisms of Animal Disease, 1993, 1995, 1996, 1997.

Advisory panel to the certifying examination review committee, American College of Laboratory Animal Medicine, 1994-1996.

Grant reviewer, Animal Health and Well-being, FY 1998 – 2002, United States Department of Agriculture.

Associate Editor, *Veterinary Pathology*, American College of Veterinary Pathologists, January 2000 - December 2002 (I am currently under consideration for Editor-in-Chief – a position chosen nationally by governing board of councilors).

Reviewer, *Comparative Medicine* (AAALAS), 2006-present.

Editorial Board, *Vaccine Immunology* (ASM), 2002- present (term ends 2008)

Academic Service (Local Level)

Residency committee, University of Florida, College of Veterinary Medicine Teaching Hospital, Gainesville FL 1985-1987.

Institutional Animal Care and Use Committee, University of Kansas Medical Center, Kansas City KS, 1988-1992, 1993- present.

Advisory panel to the certifying examination review committee, American College of Laboratory Animal Medicine, 1994-1996.

Research Committee, Department of Pathology and Laboratory Medicine, University of Kansas Medical Center, 1991-1992; 1993-1995.

Chairman, Institutional Animal Care and Use Committee, Southern Research Institute, Birmingham AL, 1992-1993.

Animal Studies Subcommittee, VA Medical Center, Kansas City MO, 1994-2000, 2002-2003..

University Safety Committee, KU Medical Center, 2000-present.

University Research Compliance Committee, K U Medical Center, 2000-2003

CV For: David M. Pinson, DVM, PhD \_\_\_\_\_ Page 16  
KUMC Program of Requirements for New Construction Committee (committee for the design of new building), K U  
Medical Center, 2001-present.

Institutional Animal Care and Use Committee, Midwest Research Institute, 2001- Present.

Examination Resources Committee, American College of Laboratory Animal Medicine, 2006-2009

Board of Directors, Kansas City VMA, 2007