



Francis Blankenberg

Associate Professor of Radiology (Pediatric Radiology) and, by courtesy, of Pediatrics

Radiology - Pediatric Radiology

CLINICAL OFFICE (PRIMARY)

- **Pediatric Radiology Clinic**

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Bio

CLINICAL FOCUS

- Radiology
- Radiology, Pediatric
- Pediatric Radiology

ACADEMIC APPOINTMENTS

- Associate Professor, Radiology - Pediatric Radiology
- Associate Professor (By courtesy), Pediatrics
- Member, Cardiovascular Institute
- Member, Stanford Cancer Institute

PROFESSIONAL EDUCATION

- Medical Education: UCLA David Geffen School Of Medicine (1986) CA
- Internship: Stanford University Dept of General Surgery (1987) CA
- Residency: Stanford University Radiology Residency (1991) CA
- Fellowship: Lucile Packard Childrens Hospital Pediatric Radiology Fellowship (1992) CA
- Fellowship: UCSF Medical Center (1993) CA
- Board Certification: Diagnostic Radiology, American Board of Radiology (1992)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Studies on apoptotic cell death using the H MRS phenomenon.

Publications

PUBLICATIONS

- **Molecular Imaging of Apoptosis in Atherosclerosis by Targeting CellMembrane Phospholipid Asymmetry.** *Journal of the American College of Cardiology*
Chaudhry, F., Kawai, H., Johnson, K. W., Narula, N., Shekhar, A., Chaudhry, F., Nakahara, T., Tanimoto, T., Kim, D., Adapoe, M. K., Blankenberg, F. G., Mattis, J. A., Pak, et al
2020; 76 (16): 1862–74
- **Deep-learning-assisted diagnosis for knee magnetic resonance imaging: Development and retrospective validation of MRNet** *PLOS MEDICINE*
Bien, N., Rajpurkar, P., Ball, R. L., Irvin, J., Park, A., Jones, E., Bereket, M., Patel, B. N., Yeom, K. W., Shpanskaya, K., Halabi, S., Zucker, E., Fanton, et al
2018; 15 (11)
- **Deep learning for chest radiograph diagnosis: A retrospective comparison of the CheXNeXt algorithm to practicing radiologists.** *PLoS medicine*
Rajpurkar, P., Irvin, J., Ball, R. L., Zhu, K., Yang, B., Mehta, H., Duan, T., Ding, D., Bagul, A., Langlotz, C. P., Patel, B. N., Yeom, K. W., Shpanskaya, et al
2018; 15 (11): e1002686
- **Molecular Imaging of Apoptosis in IschemiaReperfusion Injury With RadiolabeledDuramycin Targeting Phosphatidylethanolamine: Effective Target Uptake and Reduced Nontarget Organ Radiation Burden.** *JACC. Cardiovascular imaging*
Kawai, H., Chaudhry, F., Shekhar, A., Petrov, A., Nakahara, T., Tanimoto, T., Kim, D., Chen, J., Lebeche, D., Blankenberg, F. G., Pak, K. Y., Kolodgie, F. D., Virmani, et al
2018
- **Preparation of Tc99m-Labeled Pseudomonas Bacteriophage without Adversely Impacting Infectivity or Biodistribution** *BIOCONJUGATE CHEMISTRY*
Holman, D., Lungren, M. P., Hardy, J., Contag, C., Blankenberg, F.
2017; 28 (11): 2698–2706
- **Cardioprotective Effects of HSP72 Administration on Ischemia- Reperfusion Injury** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Tanimoto, T., Parseghian, M. H., Nakahara, T., Kawai, H., Narula, N., Kim, D., Nishimura, R., Weisbart, R. H., Chan, G., Richieri, R. A., Haider, N., Chaudhry, F., Reynolds, et al
2017; 70 (12): 1479–92
- **Cardioprotective effects of HSP72 administration on ischemiareperfusion injury**
Nakahara, T., Tanimoto, T., Parseghian, M., Kawai, H., Narula, N., Kim, D., Nishimura, R., Chan, G., Richieri, R., Haider, N., Reynolds, G., Billimek, J., Blankenberg, et al
SOC NUCLEAR MEDICINE INC.2017
- **Targeted scVEGF/Lu-177 radiopharmaceutical inhibits growth of metastases and can be effectively combined with chemotherapy** *EJNMMI RESEARCH*
Rusckowski, M., Wang, Y., Blankenberg, F. G., Levashova, Z., Backer, M. V., Backer, J. M.
2016; 6
- **Tc-99m-Annexin A5 quantification of apoptotic tumor response: a systematic review and meta-analysis of clinical imaging trials** *EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING*
Belhocine, T. Z., Blankenberg, F. G., Kartachova, M. S., Stitt, L. W., Vanderheyden, J., Hoebers, F. J., Van de Wiele, C.
2015; 42 (13): 2083-2097
- **[Tc-99m]Annexin V-128 SPECT Monitoring of Splenic and Disseminated Listeriosis in Mice: a Model of Imaging Sepsis** *MOLECULAR IMAGING AND BIOLOGY*
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2015; 17 (3): 345-354
- **Annexin V blockade of the immunosuppressive effects of phosphatidylserine in 4T1 murine mammary tumors**
Blankenberg, F., Contag, C., Hardy, J.

SOC NUCLEAR MEDICINE INC.2015

- **Correlation of HMPAO uptake with live single cell synchrotron mid-Infrared spectromicroscopy in inherited mitochondrial disease**
Holman, E., Chen, L., Holman, H., Enns, G., Blankenberg, F.
SOC NUCLEAR MEDICINE INC.2015
- **Enhanced Caspase Activity Contributes to Aortic Wall Remodeling and Early Aneurysm Development in a Murine Model of Marfan Syndrome** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
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2015; 35 (1): 146-154
- **Tc99m-annexin V-128 SPECT imaging of listeriosis in mice**
Hardy, J., Levashova, Z., Schmidt, T., Contag, C., Blankenberg, F.
SOC NUCLEAR MEDICINE INC.2014
- **HMPAO uptake assay with t-BHP or irradiation of primary patient SURF-1 fibroblast cultures**
Holman, E., Enns, G., Blankenberg, F.
SOC NUCLEAR MEDICINE INC.2014
- **Monitoring mitochondrial disease related nephropathy and subclinical redox stress of the brain in the kd/kd murine model**
Blankenberg, F., Enns, G.
SOC NUCLEAR MEDICINE INC.2014
- **Ferumoxytol enhanced resting state fMRI and relative cerebral blood volume mapping in normal human brain.** *NeuroImage*
D'Arceuil, H., Coimbra, A., Triano, P., Dougherty, M., Mello, J., Moseley, M., Glover, G., Lansberg, M., Blankenberg, F.
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- **Apoptosis Participates in Early Aneurysm Development via ECM Remodeling in Marfan Syndrome**
Emrich, F. C., Okamura, H., Dalal, A. R., Merk, D. R., Raaz, U., Hennigs, J. K., Chin, J. T., Miller, M. O., Blankenberg, F. G., Connolly, A. J., Alvira, C. M., Mohr, F. W., Robbins, et al
LIPPINCOTT WILLIAMS & WILKINS.2013
- **Attenuation of Apoptosis by Telmisartan in Atherosclerotic Plaques of Apolipoprotein E-/- Mice: Evaluation Using Technetium 99m-Annexin A5** *MOLECULAR IMAGING*
Zhao, Y., Zhao, S., Kuge, Y., Strauss, H. W., Blankenberg, F. G., Tamaki, N.
2013; 12 (5): 300-309
- **Recent Advances in the Molecular Imaging of Programmed Cell Death: Part II-Non-Probe-Based MRI, Ultrasound, and Optical Clinical Imaging Techniques** *JOURNAL OF NUCLEAR MEDICINE*
Blankenberg, F. G., Strauss, H. W.
2013; 54 (1): 1-4
- **Synchrotron infrared imaging of advanced glycation endproducts (AGEs) in cardiac tissue from mice fed high glycemic diets** *BIOMEDICAL SPECTROSCOPY AND IMAGING*
Birarda, G., Holman, E. A., Fu, S., Weikel, K., Hu, P., Blankenberg, F. G., Holman, H., Taylor, A.
2013; 2 (4): 301-15
- **Brain uptake of Tc99m-HMPAO correlates with clinical response to the novel redox modulating agent EPI-743 in patients with mitochondrial disease** *MOLECULAR GENETICS AND METABOLISM*
Blankenberg, F. G., Kinsman, S. L., Cohen, B. H., Goris, M. L., Spicer, K. M., Perlman, S. L., Krane, E. J., Kheifets, V., Thoolen, M., Miller, G., Enns, G. M.
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- **Recent Advances in the Molecular Imaging of Programmed Cell Death: Part I-Pathophysiology and Radiotracers** *JOURNAL OF NUCLEAR MEDICINE*
Blankenberg, F. G., Strauss, H. W.
2012; 53 (11): 1659-1662
- **Quantitative Determination of Apoptosis of Pancreatic beta-Cells in a Murine Model of Type 1 Diabetes Mellitus** *JOURNAL OF NUCLEAR MEDICINE*
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- **99mTc AnnexinV-128 for in vivo diagnosis of experimental collagen induced arthritis**
Muzio, V., Fortunato, M., Filannino, A., Ardisson, V., Levashova, Z., Blankenberg, F.
SOC NUCLEAR MEDICINE INC.2012
- **Initial experience in the treatment of inherited mitochondrial disease with EPI-743** *MOLECULAR GENETICS AND METABOLISM*
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- **Targeted Systemic Radiotherapy with scVEGF/Lu-177 Leads to Sustained Disruption of the Tumor Vasculature and Intratumoral Apoptosis** *JOURNAL OF NUCLEAR MEDICINE*
Blankenberg, F. G., Levashova, Z., Goris, M. G., Hamby, C. V., Backer, M. V., Backer, J. M.
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- **Multimodality Molecular Imaging of Apoptosis in Oncology** *AMERICAN JOURNAL OF ROENTGENOLOGY*
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- **Localization of Deoxyglucose and Annexin A5 in Experimental Atheroma Correlates with Macrophage Infiltration but not Lipid Deposition in the Lesion** *MOLECULAR IMAGING AND BIOLOGY*
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- **Mid-Infrared Reflectivity of Mouse Atheromas: A Case Study** *BIOMEDICAL APPLICATIONS OF SYNCHROTRON INFRARED MICROSCOPY*
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- **Mechanisms behind Local Immunosuppression Using Inhaled Tacrolimus in Preclinical Models of Lung Transplantation** *AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY*
Deuse, T., Blankenberg, F., Haddad, M., Reichenspurner, H., Phillips, N., Robbins, R. C., Schrepfer, S.
2010; 43 (4): 403-412
- **Characterization of a Recombinant Form of Annexin VI for Detection of Apoptosis** *BIOCONJUGATE CHEMISTRY*
Smith, C., Mehta, R., Gibson, D. F., Levashova, Z., Blankenberg, F. G., Tait, J. F.
2010; 21 (8): 1554-1558
- **Molecular Imaging of Changes in the Prevalence of Vascular Endothelial Growth Factor Receptor in Sunitinib-Treated Murine Mammary Tumors** *JOURNAL OF NUCLEAR MEDICINE*
Levashova, Z., Backer, M., Hamby, C. V., Pizzonia, J., Backer, J. M., Blankenberg, F. G.
2010; 51 (6): 959-966
- **Annexin A5 Uptake in Ischemic Myocardium: Demonstration of Reversible Phosphatidylserine Externalization and Feasibility of Radionuclide Imaging** *JOURNAL OF NUCLEAR MEDICINE*
Kenis, H., Zandbergen, H. R., Hofstra, L., Petrov, A. D., Dumont, E. A., Blankenberg, F. D., Haider, N., Bitsch, N., Gijbels, M., Verjans, J. W., Narula, N., Narula, J., Reutelingsperger, et al
2010; 51 (2): 259-267
- **Noninvasive assessment of tumor VEGF receptors in response to treatment with Pazopanib: A molecular imaging study** *TRANSLATIONAL ONCOLOGY*
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- **Molecular Imaging of Atherosclerotic Plaque Vulnerability: Comparison between F-18-FDG and Tc-99m-Annexin A5** *MOLECULAR IMAGING FOR INTEGRATED MEDICAL THERAPY AND DRUG DEVELOPMENT*
Zhao, Y., Kuge, Y., Zhao, S., Strauss, H., Blankenberg, F. G., Tamaki, N.
edited by Tamaki, N., Kuge, Y.
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- **Imaging Vascular Endothelial Growth Factor (VEGF) Receptors in Turpentine-Induced Sterile Thigh Abscesses with Radiolabeled Single-Chain VEGF** *JOURNAL OF NUCLEAR MEDICINE*
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- **Apoptosis Imaging: Anti-Cancer Agents in Medicinal Chemistry** *ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY*
Blankenberg, F. G.
2009; 9 (9): 944-951
- **Analysis of In Situ and Ex Vivo Vascular Endothelial Growth Factor Receptor Expression During Experimental Aortic Aneurysm Progression** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
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- **18F-FDG and 99mTc-annexin A5 preferentially accumulate into unstable plaque in relation to macrophages infiltration but not lipid deposition: Histological basis of nuclear imaging on unstable plaques**
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- **Selective localization of annexin V within depolarized skeletal muscle**
Blankenberg, F., Levashova, Z., Tait, J.
SOC NUCLEAR MEDICINE INC.2009
- **Fluorescent tomographic imaging subacute and chronic sterile abscesses using scVEGF/Cy5.5**
Blankenberg, F., Levashova, Z., Backer, M., Backer, J.
SOC NUCLEAR MEDICINE INC.2009
- **Tc99m-scVEGF SPECT imaging of anti-angiogenic therapy with Sutent**
Levashova, Z., Blankenberg, F., Backer, M., Backer, J.
SOC NUCLEAR MEDICINE INC.2009
- **SPECT and PET Imaging of EGF Receptors with Site-Specifically Labeled EGF and Dimeric EGF** *BIOCONJUGATE CHEMISTRY*
Levashova, Z., Backer, M. V., Horng, G., Felsher, D., Backer, J. M., Blankenberg, F. G.
2009; 20 (4): 742-749
- **The Use of Tc-99m-Recombinant Human Annexin V Imaging for Differential Diagnosis of Aseptic Loosening and Low-Grade Infection in Hip and Knee Prostheses** *JOURNAL OF NUCLEAR MEDICINE*
Lorberboym, M., Feldbrin, Z., Hendel, D., Blankenberg, F. G., Schachter, P.
2009; 50 (4): 534-37
- **Macrophage Infiltration and Apoptosis can be Imaged Utilizing F-18-fdg and Tc-99m-annexin A5: Potential Indicators of Plaque Vulnerability** *81st Annual Scientific Session of the American-Heart-Association*
Zhao, Y., Kuge, Y., Zhao, S., Strauss, H. W., Blankenberg, F. G., Tamaki, N.
LIPPINCOTT WILLIAMS & WILKINS.2008: S1002-S1002
- **Monitoring of Treatment-Induced Apoptosis in Oncology with PET and SPECT** *CURRENT PHARMACEUTICAL DESIGN*
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- **Prolonged High-Fat Feeding Enhances Aortic F-18-FDG and Tc-99m-Annexin A5 Uptake in Apolipoprotein E-Deficient and Wild-Type C57BL/6J Mice** *JOURNAL OF NUCLEAR MEDICINE*
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- **In vivo imaging of apoptosis** *CANCER BIOLOGY & THERAPY*
Blankenberg, F. G.

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- **In vivo detection of apoptosis** *JOURNAL OF NUCLEAR MEDICINE*
Blankenberg, F. G.
2008; 49: 81S-95S
- **Mid-infrared reflectivity of experimental atheromas** *JOURNAL OF BIOMEDICAL OPTICS*
Holman, H. N., Bjornstad, K. A., Martin, M. C., McKinney, W. R., Blakely, E. A., Blankenberg, F. G.
2008; 13 (3)
- **Direct site-specific labeling of the cys-tag moiety in scVEGF with technetium 99m** *BIOCONJUGATE CHEMISTRY*
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- **Translational imaging: imaging of apoptosis.** *Handbook of experimental pharmacology*
Strauss, H. W., Blankenberg, F., Vanderheyden, J., Tait, J.
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- **Monitoring the protective effects of minocycline treatment with radiolabeled annexin v in an experimental model of focal cerebral ischemia** *JOURNAL OF NUCLEAR MEDICINE*
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- **Molecular imaging of VEGF receptors in angiogenic vasculature with single-chain VEGF-based probes** *NATURE MEDICINE*
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- **In vivo imaging of apoptosis in patients with acute stroke: Correlation with blood-brain barrier permeability** *BRAIN RESEARCH*
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Blankenberg, F. G., Kalinyak, J., Liu, L. P., Koike, M., Cheng, D. Y., Goris, M. L., Green, A., Vanderheyden, J. L., Tong, D. C., Yenari, M. A.
2006; 33 (5): 566-574
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- **Radiolabeling of HYNIC-annexin V with technetium-99m for in vivo imaging of apoptosis** *NATURE PROTOCOLS*
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2006; 1 (1): 108-110
- **The Imaging of Apoptosis with the Radiolabelled Annexin A5: A New Tool in Translational Research** *CURRENT CLINICAL PHARMACOLOGY*
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- **Structural requirements for in vivo detection of cell death with Tc-99m-annexin V** *JOURNAL OF NUCLEAR MEDICINE*
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- **Enhanced apoptotic reaction correlates with suppressed tumor glucose utilization after cytotoxic chemotherapy: Use of Tc-99m-annexin V, F-18-FDG, and histologic evaluation** *JOURNAL OF NUCLEAR MEDICINE*
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2004; 45 (12): 2083-2087
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Blankenberg, F. G., Mandl, S., Cao, Y. A., O'Connell-Rodwell, C., Contag, C., Mari, C., Gaynutdinov, T. I., Vanderheyden, J. L., Backer, M. V., Backer, J. M.
2004; 45 (8): 1373-1380
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2004; 23 (4): 51-57

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2004; 113 (7): 2037-2047
- **Detection of focal hypoxic-ischemic injury and neuronal stress in a rodent model of unilateral MCA occlusion/reperfusion using radiolabeled annexin V** *EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING*
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2004; 31 (5): 733-739
- **Nuclear medicine in the era of genomics and proteomics: Lessons from annexin V** *JOURNAL OF PROTEOME RESEARCH*
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