

# Stanford

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## Francis Blankenberg

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

### CLINICAL OFFICES

- **Pediatric Radiology Clinic**

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### Bio

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### CLINICAL FOCUS

- Diagnostic Radiology
- Radiology
- Radiology, Pediatric

### ACADEMIC APPOINTMENTS

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

### PROFESSIONAL EDUCATION

- Residency: Stanford University Radiology Residency (1991) CA
- Internship: Stanford University General Surgery Residency (1987) CA
- Medical Education: UCLA David Geffen School Of Medicine Registrar (1986) 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

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Studies on apoptotic cell death using the H MRS phenomenon.

## Publications

### PUBLICATIONS

- **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
- **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): e1002699
- **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., Hoebbers, 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*  
Hardy, J. W., Levashova, Z., Schmidt, T. L., Contag, C. H., Blankenberg, F. G.  
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*  
Emrich, F. C., Okamura, H., Dalal, A. R., Penov, K., Merk, D. R., Raaz, U., Hennings, J. K., Chin, J. T., Miller, M. O., Pedroza, A. J., Craig, J. K., Koyano, T. K., Blankenberg, et al  
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.  
2013; 83: 200-209
- **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.  
2012; 107 (4): 690-699
- **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*  
Watanabe, A., Nishijima, K., Zhao, S., Zhao, Y., Tanaka, Y., Takemoto, H., Strauss, H. W., Blankenberg, F. G., Tamaki, N., Kuge, Y.  
2012; 53 (10): 1585-1591
- **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*  
Enns, G. M., Kinsman, S. L., Perlman, S. L., Spicer, K. M., Abdenur, J. E., Cohen, B. H., Amagata, A., Barnes, A., Kheifets, V., Shrader, W. D., Thoolen, M., Blankenberg, F., Miller, et al  
2012; 105 (1): 91-102
- **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*  
Blankenberg, F. G., Norfray, J. F.  
2011; 197 (2): 308-317
- **Localization of Deoxyglucose and Annexin A5 in Experimental Atheroma Correlates with Macrophage Infiltration but not Lipid Deposition in the Lesion** *MOLECULAR IMAGING AND BIOLOGY*  
Zhao, Y., Zhao, S., Kuge, Y., Strauss, W. H., Blankenberg, F. G., Tamaki, N.  
2011; 13 (4): 712-720
- **Mid-Infrared Reflectivity of Mouse Atheromas: A Case Study** *BIOMEDICAL APPLICATIONS OF SYNCHROTRON INFRARED MICROSPECTROSCOPY*  
Holman, H. N., Blankenberg, F. G., Moss, D.  
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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*  
Blankenberg, F. G., Levashova, Z., Sarkar, S. K., Pizzonia, J., Backer, M. V., Backer, J. M.  
2010; 3 (1): 56-64
- **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., Tamaki, N., Kuge, Y.  
2010: 69-77
- **Imaging Vascular Endothelial Growth Factor (VEGF) Receptors in Turpentine-Induced Sterile Thigh Abscesses with Radiolabeled Single-Chain VEGF** *JOURNAL OF NUCLEAR MEDICINE*  
Levashova, Z., Backer, M., Backer, J. M., Blankenberg, F. G.  
2009; 50 (12): 2058-2063
- **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*  
Tedesco, M. M., Terashima, M., Blankenberg, F. G., Levashova, Z., Spin, J. M., Backer, M. V., Backer, J. M., Sho, M., Sho, E., McConnell, M. V., Dalman, R. L.  
2009; 29 (10): 1452-?
- **Imaging the molecular signatures of apoptosis and injury with radiolabeled annexin V.** *Proceedings of the American Thoracic Society*  
Blankenberg, F. G.  
2009; 6 (5): 469-476

- **Tc99m-scVEGF SPECT imaging of anti-angiogenic therapy with Sutent**  
Levashova, Z., Blankenberg, F., Backer, M., Backer, J.  
SOC NUCLEAR MEDICINE INC.2009
- **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**  
Zhao, Y., Kuge, Y., Zhao, S., Strauss, H. W., Blankenberg, F. G., Tamaki, N.  
OXFORD UNIV PRESS.2009: S74–S74
- **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
- **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***  
Blankenberg, F. G.  
2008; 14 (28): 2974-2982
- **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***  
Zhao, Y., Kuge, Y., Zhao, S., Strauss, H. W., Blankenberg, F. G., Tamaki, N.  
2008; 49 (10): 1707-1714
- **In vivo imaging of apoptosis *CANCER BIOLOGY & THERAPY***  
Blankenberg, F. G.  
2008; 7 (10): 1525-1532
- **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***  
Levashova, Z., Backer, M., Backer, J. M., Blankenberg, F. G.  
2008; 19 (5): 1049-1054
- **Translational imaging: imaging of apoptosis. *Handbook of experimental pharmacology***  
Strauss, H. W., Blankenberg, F., Vanderheyden, J., Tait, J.  
2008: 259-275

- **Cysteine-containing fusion tag for site-specific conjugation of therapeutic and imaging agents to targeting proteins.** *Methods in molecular biology (Clifton, N.J.)*  
Backer, M. V., Levashova, Z., Levenson, R., Blankenberg, F. G., Backer, J. M.  
2008; 494: 275-294
- **Radiolabeled monocyte chemotactic protein I for the detection of inflammation in experimental atherosclerosis** *JOURNAL OF NUCLEAR MEDICINE*  
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2007; 48 (11): 1816-1821
- **Comparison of Tc-99m-annexin A5 with F-18-FDG for the detection of atherosclerosis in ApoE-/- mice** *EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING*  
Zhao, Y., Kuge, Y., Zhao, S., Morita, K., Inubushi, M., Strauss, H. W., Blankenberg, F. G., Tamaki, N.  
2007; 34 (11): 1747-1755
- **Monitoring the protective effects of minocycline treatment with radiolabeled annexin v in an experimental model of focal cerebral ischemia** *JOURNAL OF NUCLEAR MEDICINE*  
Tang, M. N., Wang, Q., Koikel, M. A., Cheng, D., Goris, M. L., Blankenberg, F. G., Yenari, M. A.  
2007; 48 (11): 1822-1828
- **Imaging of vasa vasorum in atherosclerotic plaque with Tc-99m-labeled single chain-VEGF**  
Ohshima, S., Fujimoto, S., Tsimikas, S., Kolodgie, F. D., Virmani, R., Levashova, Z., Backer, J. M., Blankenberg, F. G., Petrov, A., Narula, J.  
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- **Nuclear medicine applications in molecular imaging: 2007 update** *QUARTERLY JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING*  
Blankenberg, F. G., Strauss, H. W.  
2007; 51 (2): 99-110
- **Tc-99m-Annexin A5 for noninvasive characterization of atherosclerotic lesions: imaging and histological studies in myocardial infarction-prone Watanabe heritable hyperlipidemic rabbits** *EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING*  
Ishino, S., Kuge, Y., Takai, N., Tamaki, N., Strauss, H. W., Blankenberg, F. G., Shiomi, M., Saji, H.  
2007; 34 (6): 889-899
- **Variable growth rates and diameter-dependent expression of vascular endothelial growth factor receptors in experimental abdominal aortic aneurysms** *8th Annual Conference on Arteriosclerosis, Thrombosis, and Vascular Biology*  
Tedesco, M. M., Terashima, M., Blankenberg, F. G., Levashova, Z., Backer, M., Backer, J., Sho, M., Sho, E., McConnell, M. V., Dalman, R. L.  
LIPPINCOTT WILLIAMS & WILKINS.2007: E37-E38
- **Molecular imaging of VEGF receptors in angiogenic vasculature with single-chain VEGF-based probes** *NATURE MEDICINE*  
Backer, M. V., Levashova, Z., Patel, V., Jehning, B. T., Claffey, K., Blankenberg, F. G., Backer, J. M.  
2007; 13 (4): 504-509
- **Improved detection of cell death in vivo with annexin V radiolabeled by site-specific methods** *JOURNAL OF NUCLEAR MEDICINE*  
Tait, J. F., Smith, C., Levashova, Z., Patel, B., Blankenberg, F. G., Vanderheyden, J.  
2006; 47 (9): 1546-1553
- **In vivo imaging of apoptosis in patients with acute stroke: Correlation with blood-brain barrier permeability** *BRAIN RESEARCH*  
Lorberboym, M., Blankenberg, F. G., Sadeh, M., Lampl, Y.  
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- **In vivo tumor angiogenesis imaging with site-specific labeled Tc-99m-HYNIC-VEGF** *EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING*  
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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.  
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- **Radiolabeling of HYNIC-annexin V with technetium-99m for in vivo imaging of apoptosis** *NATURE PROTOCOLS*  
Blankenberg, F. G., Vanderheyden, J., Strauss, H. W., Tait, J. F.  
2006; 1 (1): 108-110
- **The Imaging of Apoptosis with the Radiolabelled Annexin A5: A New Tool in Translational Research** *CURRENT CLINICAL PHARMACOLOGY*  
Belhocine, T. Z., Blankenberg, F. G.  
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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*  
Takei, T., Kuge, Y., Zhao, S., Sato, M., Strauss, H. W., Blankenberg, F. G., Tait, J. F., Tamaki, N.  
2005; 46 (5): 794-799
- **Only the CD62L(+) subpopulation of CD4(+)CD25(+) regulatory T cells protects from lethal acute GVHD** *BLOOD*  
Ermann, J., Hoffmann, P., Edinger, M., Dutt, S., Blankenberg, F. G., Higgins, J. P., Negrin, R. S., Fathman, C. G., Strober, S.  
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2004; 45 (12): 2083-2087
- **Tumor imaging using a standardized radiolabeled adapter protein docked to vascular endothelial growth factor** *JOURNAL OF NUCLEAR MEDICINE*  
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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Blankenberg, F. G.  
2004; 23 (4): 51-57
- **Apoptosis in a rodent model of cranial suture fusion: In situ imaging and gene expression analysis** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Fong, K. D., Song, H. M., Nacamuli, R. P., Franc, B. L., Mari, C., Fang, T. D., Warren, S. M., Contag, C. H., Blankenberg, F. G., Longaker, M. T.  
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- **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*  
Mari, C., Karabiyikoglu, M., Goris, M. L., Tait, J. F., Yenari, M. A., Blankenberg, F. G.  
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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2004; 3 (3): 345-49
- **Feasibility of Tc-99m-annexin V for repetitive detection of apoptotic tumor response to chemotherapy: An experimental study using a rat tumor model** *JOURNAL OF NUCLEAR MEDICINE*  
Kuge, Y., Sato, M., Zhao, S. J., Takei, T., Nakada, K., Seki, K., Strauss, H. W., Blankenberg, F. G., Tait, J. F., Tamaki, N.  
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