

Paula M. Jacobs, Ph.D.

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Positions

National Cancer Institute, Division of Cancer Treatment & Diagnosis

Office of the Director
Expert Advisor, 2020-present

National Cancer Institute, Division of Cancer Treatment & Diagnosis

Cancer Imaging Program
Expert Advisor, 2018-2020
Associate Director, 2012- 2018
Adjunct Investigator, Center for Cancer Research, Molecular Imaging
Program, 2015-present
Acting Associate Director, 2010 to 2011
Deputy Associate Director, 2009 to 2011

SAIC-Frederick, Frederick, MD

Operations and Technical Support (OTS) Contractor for the National Cancer
Institute at Frederick
Contracted to: Cancer Imaging Program/DCTD/NCI/ NIH
Director of Regulatory Affairs, 2006-2009

Advanced Magnetics, Inc, Cambridge, MA (Now AMAG Pharmaceuticals)
Pharmaceuticals: MRI Contrast agents, iron therapy; US and International
Vice President Development, 1986–2005

Seragen, Inc., Boston, MA

Research and Diagnostic Kits: Prostaglandins, cell separation
General Manager—Research Products 1983–1985
Director of Production and Manufacturing Development—1981–1983

Clinical Assays (Division of Baxter Travenol), Cambridge MA

In Vitro Diagnostics: clinical test kits, solid phase immunoassay
Director Of Scientific Operations—1981-1982
Director Of Technical Support—1980-1981
Group Leader, Technical Support—1978-1980

Childrens Cancer Research Foundation

Research Assistant—1968-1970: folate antagonists

Post-Doctoral Research

Harvard Medical School

Associate In Radiology—1977-1979

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Peter Bent Brigham Hospital

Associate In Radiology—1977-1979

Northeastern University

Research Associate—1976-1978

The Massachusetts Institute Of Technology

Research Fellow—1975-1976

Northeastern University

Research Associate—1973-1974

Education

Ph.D., Organic Chemistry

Northeastern University—1973

M.S., Organic Chemistry

Tufts University—1968

S.B., Chemistry

The Massachusetts Institute of Technology—1966

National Merit Scholar

Professional Societies

American Chemical Society

American Association for Cancer Research

American Society of Clinical Oncology

Society of Nuclear Medicine

Radiological Society of North America

Sigma Xi

Inactive:

American Association for the Advancement of Science

American Heart Association

American Roentgen Ray Society

American Society of Nephrology

International Society for Magnetic Resonance Imaging in Medicine

International Society of Nephrology

National Kidney Foundation

New York Academy of Sciences

Society for Molecular Imaging

Royal Chemical Society

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Committee Memberships

FDA Medical Imaging Drugs Advisory Committee, 2017-present
Medical Imaging and Data Resource Center, Internal Advisory Board, 2020-present
Integrated Canine Data Commons Steering Committee and Best Practices Subcommittee, NCI/DCTD, 2018-present
NEX Development Committee, NCI/DCTD, 2009-2019
NEX Senior Advisory Committee, NCI/DCTD, 2009-2019
NEX Discovery Committee, NCI/DCTD, 2009-2018
Imaging Drug Group, NCI/DCTD 2007-2010
SNMMI member **Artificial Intelligence Task Force** 6/2020-6/2022

Editorial Boards Reviewer

Associate Editor, American Journal of Nuclear Medicine and Molecular Imaging
Academic Radiology
Annals of Surgery
Cancer Research
Clinical Cancer Research
Journal of Nuclear Medicine
Kidney International
Molecular imaging and Biology
Nature Reviews Oncology
Radiology
Radiology AI
Radiology Cancer Imaging
Science Translational Medicine

Awards

NIH Merit Award, 2011, Leadership
NIH Merit Award, 2014, Quantitative Imaging Network Team

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Trial Protocols

NCT03206060 17C0087A Lu-177-DOTATATE (Lutathera) in Therapy of Inoperable Pheochromocytoma/Paraganglioma

NCT03181867 17C0109. 18F-DCFPyL PET/CT in High Risk and Recurrent Prostate Cancer

CTEP # 8826 Clinical Center 11-C-0061 Phase I Trial of Z-Endoxifen in Adults With Refractory Hormone Receptor–Positive Breast Cancer, Desmoid Tumors, Gynecologic Tumors, or Other Hormone Receptor–Positive Solid Tumors

NCT02190279. CTEP# 9622 14-C-0140 A Pilot Study of 18F-DCFBC PET/CT in Prostate Cancer. Completed

NCT02192541. CTEP #9605 Phase I Study of Ganetespib and Ziv-Aflibercept in Refractory Gastrointestinal Carcinomas, Non-Squamous Non-Small Cell Lung Carcinomas, Urothelial Carcinomas, and Sarcomas. Terminated

NCT02141490 , NCI 14-C-0107 Evaluation of Ferumoxytol Enhanced MRI for the Detection of Lymph Node Involvement in Genitourinary (Prostate, Bladder and Kidney) Cancers. Completed

CIP/NCI #: 7832 CC#: 07C0101 A Phase 0 Trial of 111-Indium CHX-A" DTPA trastuzumab Imaging in Cancer. Completed

NCT01296139 Evaluation of Ferumoxytol enhanced MRI for the detection of lymph node involvement in prostate cancer. Completed

PUBLICATIONS & PRESENTATIONS

ORCID ID: 0000-0002-9423-6473

As of 1/2022

1. Jacobs PM, Springfield SA. [Deep Disparities Persist in Lung Cancer Screening Eligibility](#). *Radiology* 2021; 301:721–723 . doi: 10.1148/radiol.2021211632. Epub ahead of print Sept 21 2021
2. National Lung Screening Trial Research Team, Aberle DR, Adams AM, Berg CD, Black WC, Clapp JD, Fagerstrom RM, Gareen IF, Gatsonis C, Marcus PM, Sicks JD. [Reduced lung-cancer mortality with low-dose computed tomographic screening](#). *N Engl J Med*. 2011 Aug 4;365(5):395-409. doi: 10.1056/NEJMoa1102873. Epub 2011 Jun 29.
3. National Lung Screening Trial Research Team, Aberle DR, Adams AM, Berg CD, Black WC, Clapp JD, Fagerstrom RM, Gareen IF, Gatsonis C, Marcus PM, Sicks JD. *N Engl J Med*. 2011 Aug 4;365(5):395-409. doi: 10.1056/NEJMoa1102873. Epub 2011 Jun 29. PMID: 21714641
- 4.
5. Kalen JD, Clunie DA, Liu Y, Tatum JL, Jacobs PM, Kirby J, Freymann JB, Wagner U, Smith KE, Suloway C, Doroshow JH. Design and Implementation of the Pre-Clinical DICOM Standard in Multi-Cohort Murine Studies. *Tomography*. 2021; 7(1):1-9. <https://doi.org/10.3390/tomography7010001>
6. Wheeler et al., Molecular Features of Cancers Exhibiting Exceptional Responses to Treatment, *Cancer Cell* 39:38-53 (2021), <https://doi.org/10.1016/j.ccell.2020.10.015> (epub ahead of print 19 November 2020)
7. Conley et al, The Exceptional Responders Initiative: Feasibility of a National Cancer Institute Pilot Study, *J Natl Cancer Inst* (2021): 113, 27-37 <https://doi.org/10.1093/jnci/djaa061> (epub ahead of print 4/27/2020)
8. Boxerman JL, et al., Consensus recommendations for a dynamic susceptibility contrast MRI protocol for use in high-grade gliomas *Neuro-Oncology*, Volume 22, Issue 9, September 2020, Pages 1262–1275, <https://doi.org/10.1093/neuonc/noaa141>
9. Tatum, J. L., Kalen, J. D., Jacobs, P. M., Ileva, L. V., Riffle, L. A., Keita, S., Patel, N., Sanders, C., James, A., Difilippantonio, S., Thang, L., Hollingshead, M. G., Phillips, J., Edmondson, E., Evrard, Y., Clunie, D. A., Liu, Y., Smith, K. E., Wagner, U., ... Doroshow, J. H. (2020). *Imaging characterization of a metastatic patient derived model of melanoma: PDMR-425362-245-T* [Data set]. The Cancer Imaging Archive. <https://doi.org/10.7937/TCIA.2020.7YRS-7J97>
10. Tatum, J., Kalen, J., Ileva, L., Riffle, L., S, K., N, P., Jacobs, P., Sanders, C., A, J., Difilippantonio, S., L, T., Hollingshead, M, G., Phillips, J., Edmondson, E., Evrard, Y., Clunie, D., Y, L., Suloway, C., Smith, K., U, W., ... Doroshow, J. (n.d.). *Imaging characterization of a metastatic patient derived model of adenocarcinoma pancreas: PDMR-292921-168-R* [Data Set]. The Cancer Imaging Archive. <https://doi.org/10.7937/TCIA.2020.PCAK-8Z10>

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11. Tatum, J. L., Kalen, J. D., Ileva, L. V., Riffle, L. A., Keita, S., Patel, N., Jacobs, P. M., Sanders, C., James, A., Difilippantonio, S., Thang, L., Hollingshead, M. G., Phillips, J., Evrard, Y., Clunie, D. A., Liu, Y., Suloway, C., Smith, K. E., Wagner, U., ... Doroshov, J. H. (2020). *Imaging characterization of a metastatic patient derived model of adenocarcinoma colon: PDMR-997537-175-T* [Data set]. The Cancer Imaging Archive. <https://doi.org/10.7937/TCIA.2020.BRY9-4N29>
12. [Ferumoxitol-enhanced MR lymphography for detection of metastatic lymph nodes in genitourinary malignancies: A prospective study](#)
Turkbey B., Czarniecki M., Shih J.H., Harmon S.A., Agarwal P.K., Apolo A.B., Citrin D.E., Gulley J.L., Harisinghani M., Madan R.A., Metwalli A.R., Paquette E., Pinto P.A., Rais-Bahrami S., Rowe L.S., Wood B.J., Jacobs P.M., Lindenberg L., Dahut W., Choyke P.L.
American Journal of Roentgenology 2020 214:1 (105-113)
13. James L. Tatum; Joseph D. Kalen; Paula M. Jacobs; Lilia V. Ileva; Lisa A. Riffle; Melinda G. Hollingshead; James H. Doroshov A spontaneously metastatic model of bladder cancer: imaging characterization, J Transl Med. 2019 Dec 19;17(1):425. [doi:10.1186/s12967-019-02177-y](https://doi.org/10.1186/s12967-019-02177-y)
14. Basu A, Warzel D, Eftekhari A, Kirby, Freymann J, Knable J, Sharma A, Jacobs S P, A Call for Data Standardization: Lessons Learned and Recommendations in an Imaging Study, JCO Clin Cancer Inform. 2019 Nov;3:1-11. <https://doi.org/10.1200/CCI.19.00056>
15. Gambhir SS, Shankar LK, Rosenthal E, Warram JM, Ghesani M, Hope TA, Jacobs PM, Jacobson GB, Wilson T, Siegel BA. [Proceedings: Pathways for Successful Translation of New Imaging Agents and Modalities-Phase III Studies](#). J Nucl Med. 2019 Jun;60(6):736-744. doi: 10.2967/jnumed.118.219824. Epub 2019 Mar 8. No abstract available.
16. Young CR, Adler S, Eary JF, Lindenberg ML, Jacobs PM, Collins J, Kummur S, Kurdziel KA, Choyke PL, Mena E. [Biodistribution, Tumor Detection, and Radiation Dosimetry of ¹⁸F-5-Fluoro-2'-Deoxycytidine with Tetrahyrouridine in Solid Tumors](#). J Nucl Med. 2019 Apr;60(4):492-496. doi: 10.2967/jnumed.118.216994. Epub 2018 Nov 2.
17. Srivastava S, Ghosh S, Kagan J, Mazurchuk R; National Cancer Institute's HTAN Implementation. [The Making of a PreCancer Atlas: Promises, Challenges, and Opportunities](#). Trends Cancer. 2018 Aug;4(8):523-536. doi: 10.1016/j.trecan.2018.06.007. Epub 2018
18. McDonald RJ, Levine D, Weinreb J, Kanal E, Davenport MS, Ellis JH, **Jacobs PM**, Lenkinski RE, Maravilla KR, Prince MR, Rowley HA, Tweedle MF, Kressel HY. Gadolinium Retention: A Research Roadmap from the 2018 NIH/ACR/RSNA Workshop on Gadolinium Chelates. Radiology. 2018 Nov;289(2):517-534. doi: 10.1148/radiol.2018181151
19. Jaffray DA, Das S, **Jacobs PM**, Jeraj R, Lambin P. [How Advances in Imaging Will Affect Precision Radiation Oncology](#). Int J Radiat Oncol Biol Phys. 2018 Jun 1;101(2):292-298. doi: 10.1016/j.ijrobp.2018.01.047

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20. Harmon SA, Bergvall E, Mena E, Shih JH, Adler S, McKinney Y, Mehrlivand S, Citrin DE, Couvillon A, Madan R, Gulley J, Mease RC, **Jacobs PM**, Pomper MG, Turkbey B, Choyke PL, Lindenberg ML. [A Prospective Comparison of ¹⁸F-Sodium Fluoride PET/CT and PSMA-targeted ¹⁸F-DCFBC PET/CT in Metastatic Prostate Cancer.](#) J Nucl Med. 2018
21. Mena E, Lindenberg ML, Shih JH, Adler S, Harmon S, Bergvall E, Citrin D, Dahut W, Ton AT, McKinney Y, Weaver J, Eclarinal P, Forest A, Afari G, Bhattacharyya S, Mease RC, Merino MJ, Pinto P, Wood BJ, **Jacobs P**, Pomper MG, Choyke PL, Turkbey B, [Clinical impact of PSMA-based ¹⁸F-DCFBC PET/CT imaging in patients with biochemically recurrent prostate cancer after primary local therapy.](#) Eur J Nucl Med Mol Imaging. 2018 Jan;45(1):4-11. doi: 10.1007/s00259-017-3818-x. Epub 2017 Sep 11.
22. Shields AF, **Jacobs P**, Sznol M, Graham MM, Germain R, Lum L, Jaffee E, de Vries EGE, Nimmagadda S, Van den Abbeele AD, Leung D, Wu AM, Sharon E, Shankar LK. [Immune Modulation Therapy and Imaging: Workshop Report.](#) J Nucl Med. 2017 Aug 17. pii: jnumed.117.195610. doi: 10.2967/jnumed.117.195610. [Epub ahead of print]
23. [Lindenberg L¹](#), [Adler S²](#), [Turkbey IB¹](#), [Mertan F¹](#), [Ton A²](#), [Do K³](#), [Kummar S⁴](#), [Gonzalez EM¹](#), [Bhattacharyya S⁵](#), [Jacobs PM⁶](#), [Choyke P](#), Dosimetry and first human experience with 89Zr-panitumumab. [Am J Nucl Med Mol Imaging.](#) 2017 Sep 1;7(4):195-203. eCollection 2017.
24. [Turkbey B¹](#), [Mena E](#), [Lindenberg L](#), [Adler S](#), [Bednarova S](#), [Berman R](#), [Ton AT](#), [McKinney Y](#), [Eclarinal P](#), [Hill C](#), [Afari G](#), [Bhattacharyya S](#), [Mease RC](#), [Merino MJ](#), [Jacobs PM](#), [Wood BJ](#), [Pinto PA](#), [Pomper MG](#), [Choyke PL](#). ¹⁸F-DCFBC Prostate-Specific Membrane Antigen-Targeted PET/CT Imaging in Localized Prostate Cancer: Correlation With Multiparametric MRI and Histopathology, [Clin Nucl Med.](#) 2017 Oct;42(10):735-740. doi: 10.1097/RLU.0000000000001804.
25. Willemieke S. Tummers, Jason M. Warram, Kiranya E. Tipirneni, John Fengler, Paula Jacobs, Lalitha Shankar, Lori Henderson, Betsy Ballard, Brian W. Pogue, Jamey P. Weichert, Michael Bouvet, Jonathan Sorger, Christopher H. Contag, John V. Frangioni, Michael F. Tweedle, James P. Basilion, Sanjiv S. Gambhir and Eben L. Rosenthal, [Regulatory Aspects of Optical Methods and Exogenous Targets for Cancer Detection](#), Cancer Res April 20 2017 DOI:10.1158/0008-5472.CAN-16-3217
26. Jacobs, PM, " Overview of FDA approval paths optical surgical navigation ", *Proc. SPIE* 10049, Molecular-Guided Surgery: Molecules, Devices, and Applications III, 100490S (February 8, 2017); doi:10.1117/12.2257152; <http://dx.doi.org/10.1117/12.2257152>
27. Frank I. Lin, E. M. Gonzalez, S. Kummar, K. Do, J. Shih, S. Adler, K. A. Kurdziel, A. Ton. B. Turkbey, P. M. Jacobs, S. Bhattacharyya, A. P. Chen, J. M. Collins, J. H. Doroshov, P. L. Choyke, M. L. Lindenberg, Utility of ¹⁸F-fluoroestradiol (¹⁸F-FES) PET/CT imaging as a pharmacodynamic marker in patients with refractory estrogen receptor-positive solid tumors receiving Z-endoxifen therapy [Eur J Nucl Med Mol Imaging.](#) 2017 Mar;44(3):500-508. doi: 10.1007/s00259-016-3561-8

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28. Rieves D and Jacobs P, [The Use of Published Clinical Study to Support the United States Food and Drug Administration Approval of Imaging Agents](#), J Nucl Med 2016: J Dec;57(12):2022-2026. online first July 21 2016 as doi: [10.2967/jnumed.116.178814](https://doi.org/10.2967/jnumed.116.178814)
29. Rosenthal EL, Warram JM, de Boer E, Basilion JP, Biel MA, Bogyo M, Bouvet M, Brigman BE, Colson YL, DeMeester SR, Gurtner GC, Ishizawa T, **Jacobs PM**, Keereweer S, Liao JC, Nguyen QT, Olson JM, Paulsen KD, Rieves D, Sumer BD, Tweedle MF, Vahrmeijer AL, Weichert JP, Wilson BC, Zenn MR, Zinn KR, van Dam GM. [Successful Translation of Fluorescence Navigation During Oncologic Surgery: A Consensus Report](#). J Nucl Med. 2016; **57**:144-150
30. Ellingson BM, Bendszus M, Boxerman J, Barboriak D, Erickson BJ, Smits M, Nelson SJ, Gerstner E, Alexander B, Goldmacher G, Wick W, Vogelbaum M, Weller M, Galanis E, Kalpathy-Cramer J, Shankar L, **Jacobs P**, Pope WB, Yang D, Chung C, Knopp MV, Cha S, van den Bent MJ, Chang S, Yung WK, Cloughesy TF, Wen PY, Gilbert MR; Jumpstarting Brain Tumor Drug Development Coalition Imaging Standardization Steering Committee. [Consensus recommendations for a standardized Brain Tumor Imaging Protocol in clinical trials](#). Neuro-Oncology 17(9), 1188–1198, 2015
31. Fahey F, Zukotynski K, Jadvar H, Capala J; organizing committee, contributors, and participants of the second NCI–SNMMI Workshop on Targeted Radionuclide Therapy. [Proceedings of the Second NCI-SNMMI Workshop on Targeted Radionuclide Therapy](#). J Nucl Med. 2015 Jul;56(7):1119-29.
32. K Do, L Cao, Z Kang, B Turkbey, ML Lindenber, [A Phase II Study of Sorafenib Combined With Cetuximab in EGFR-Expressing, KRAS-Mutated Metastatic Colorectal Cancer](#). Clinical Colorectal Cancer, 2015, Clin Colorectal Cancer. 2015 Mar 7. pii: S1533-0028(15)00036-5. doi: 10.1016/j.clcc.2015.02.007. [Epub ahead of print]
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34. Sibaprasad Bhattacharyya, Nimit L.Patel, Ling Wei, Lisa A.Riffle, JosephD.Kalen, G.CraigHill, Paula M.Jacobs, Kurt R. Zinn and EbenRosenthal, [Synthesis and biological evaluation of panitumumab-IRDye800 conjugate as a fluorescence imaging probe for EGFR-expressing cancers](#). Med. Chem. Commun., 2014, **5**,1337
35. Laurence P Clarke, Robert J Nordstrom, Huiming Zhang, Pushpa Tandon, Yantian Zhang, George Redmond, Keyvan Farahani, Gary Kelloff, Lori Henderson, Lalitha Shankar, James Deye, Jacek Capala, Paula Jacobs, [The Quantitative Imaging Network: NCI's Historical Perspective and Planned Goals](#). Translational Oncology 02/2014; 7(1):1-4.
36. Aberle DR, DeMello S, Berg CD, Black WC, Brewer B, Church TR, Clingan KL, Duan F, Fagerstrom RM, Gareen IF, Gatsonis CA, Gierada DS, Jain A, Jones GC, Mahon I, Marcus PM, Rathmell JM, Sicks J; National Lung Screening Trial Research Team, [Results of the two incidence screenings in the National Lung Screening Trial](#). NEJM, 2013:369:920-31

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37. **Bhattacharyya S**, Kurdziel K, Wei L, Riffle L, Kaur G, Hill GC, Jacobs PM, Tatum JL, Doroshov JH, Kalen JD., [Zirconium-89 labeled panitumumab: a potential immuno-PET probe for HER1-expressing carcinomas](https://doi.org/10.1016/j.nucmedbio.2013.01.007). Nucl Med Biol. 2013. 40:451–457; <http://dx.doi.org/10.1016/j.nucmedbio.2013.01.007>
38. Farrell BT, Hamilton BE, Dósa E, Rimely E, Nasserri M, Gahramanov S, Lacy CA, Frenkel EP, Doolittle ND, Jacobs PM, Neuwelt EA. [Using iron oxide nanoparticles to diagnose CNS inflammatory diseases and PCNSL](https://doi.org/10.1016/j.neurology.2013.06.011). Neurology. 2013 Jul 16;81(3):256-63.
39. National Lung Screening Trial Research Team, Aberle DR, Adams AM, Berg CD, Black WC, Clapp JD, Fagerstrom RM, Gareen IF, Gatsonis C, Marcus PM, Sicks JD. [Reduced lung-cancer mortality with low-dose computed tomographic screening](https://doi.org/10.1016/j.jco.2011.06.001). N Engl J Med. 2011 Aug 4;365(5):395-409.
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44. Neuwelt EA, Várallyay C,, Manninger S, Solymosi D, Haluska M, Hunt MA, Nesbit G, Stevens A, Jerosch-Herold M, Jacobs PM, Hoffman JM, The potential of ferumoxytol nanoparticle magnetic resonance imaging, perfusion, and angiography in central nervous system malignancy: a pilot study. Neurosurgery 60:601–612, 2007 (DOI: 10.1227/01.NEU.0000255350.71700.37)
45. Wei Li, John Salanitri, Sean Tutton, Eugene E. Dunkle, Joseph R. Schneider, Joseph A. Caprini, Linda N. Pierchala, Paula M. Jacobs, and Robert R. Edelman. Lower Extremity Deep Venous Thrombosis: Evaluation with Ferumoxytol-enhanced MR Imaging and Dual-Contrast Mechanism—Preliminary Experience. Radiology 2007 242: 873-881 (DOI: 10.1148/radiol.2423052101)
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- nanomedicine for diagnosis and therapy in the central nervous system: report of the eleventh annual Blood-Brain Barrier Disruption Consortium meeting. *AJNR Am J Neuroradiol* 2006;27(3):715-21
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51. Manninger S, Muldoon LL, Nesbit G, Murillo T, Jacobs PM, Neuwelt EA, An exploratory study of ferumoxtran-10 nanoparticles as a blood-brain barrier imaging agent targeting phagocytic cells in CNS inflammatory lesions, *Am J. Neurorad.* 2005: 26:2290-2300
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53. Ersoy H, Jacobs P, Kent CK, Prince MR, Blood Pool MR Angiography of Aortic Stent-Graft Endoleak, *AJR* 2004;182:1181–1186
54. Anzai Y, et. al. Evaluation of Neck and Body Metastases to Nodes with Ferumoxtran 10-enhanced MR Imaging: Phase III Safety and Efficacy Study. *Radiology* 2003; 228:777-788.
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56. Prince MR, Zhang HL, Chabra SG, Jacobs P and Wang Y, A pilot investigation of new superparamagnetic iron oxide (ferumoxytol) as a contrast agent for cardiovascular MRI, *Journal of X-Ray Science and Technology* 11 (2003) 231–240 231
57. Jung C and Jacobs P, Physical and Chemical Properties of Superparamagnetic Iron Oxide MR Contrast Agents: Ferumoxides, Ferumoxtran, Ferumoxsil, *Magnetic Resonance Imaging*, 1995: 13: 661-674
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61. Jacobs PM, Separation Methods in Immunoassays, *Ligand Quarterly* 1981;4(4):24
62. Hecht SM, Rupprecht KM, and Jacobs PM, Synthesis of L-Erythro- α -Hydroxyhistidine from D-Glucosamine, *J. Amer. Chem. Soc.*, 1979:101:3982-3983
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67. Goodwin HA, Rosenberg IH, Ferez C, Jacobs PM, and Meienhofer J The Synthesis of Biologically Active Pteroyl oligo- α -glutamates (Folic Acid Conjugates) , *J. Biol. Chem.* 1972;247:2266-2271,
68. Meienhofer J, Jacobs PM, Goodwin HA, and Rosenberg IH, Synthesis of Hepta- γ -L-glutamic Acid by Conventional and Solid Phase Techniques, *J. Org. Chem.*, 1970;35:4137-4140
69. Johnson BJ, and Jacobs PM, A New Carboxy-protecting Group for Peptide Synthesis and Its Direct Conversion to an Activated Ester suitable for Peptide Formation: 4-(methylthio)phenyl and 4-(Methylsulphonyl)phenyl Esters, *Chem. Comm.*, 1966:73-75
70. Johnson BJ, and Jacobs, The 4-(Methylsulfonyl)phenyl Activated Ester: Susceptibility to Racemization PM, *J. Org. Chem.*, 1968;33:4524-4526

BOOK CHAPTERS

1. P. M. Jacobs and D. Rieves, "Bringing an Imaging Product into the Clinic," Chapter 4 in *Translational Research in Biophotonics: Four National Cancer Institute Case Studies*, R. J. Nordstrom, Ed., SPIE Press, Bellingham, Washington, pp. 67-81 (2014)
2. Daniel C. Sullivan and Paula M. Jacobs, Cost-Effectiveness Analysis/Economics of Probe Development, in *Molecular Imaging: Principles and Practice*. Weissleder, Ross, Rehemtulla, and Gambhir, ed. 2010, PMPH USA

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3. John Pearson, Lawrence Tarbox, Gianluca Paladini, John G. Wolodzko, Paula M. Jacobs, and Zhenghong Lee, "Emerging Radiological Software Standards and Development Technologies: Impact on Clinical Translation and Trials" in *Imaging Tools in Cancer Research and Prevention*, James L. Mulshine and Thomas M. Baer, ed; 2008, Wiley

Invited Presentations

1. Jacobs, PM, *Imaging over the Horizon, Seeing is Believing*, *Advances in Medical Imaging*, UCDavis, Sept 2019
2. Jacobs, PM. *Sharing datasets for machine learning and AI in oncology*, The 3rd Sanming Project Symposium on Specialist Education and Advances in Radiation Oncology & the 1st Program on Multicenter Clinical Trials Design Training, June 2019, Shenzhen China
3. Jacobs, PM, *Moving PET Tracers from the Bench to FDA*, Blood Brain Barrier Consortium, March 2019, Portland OR
4. Jacobs, PM, *The Cancer Imaging Archive TCGA projects: A model for research to individualize treatment care in radiation oncology*, 4R symposium, Rutgers University, Feb 2017
5. Jacobs, PM, *Overview of FDA approval paths optical surgical navigation*, Biophotonics West, January 2017, San Francisco
6. Jacobs, PM, *The Cancer Imaging Archive TCGA projects: A model for research to individualize treatment care in radiation oncology*, June 2016, Precision Medicine in Radiation Oncology, Bethesda
7. Jacobs, PM, *Supply of IND agents to Multicenter Trials*, June 2016, SNMMI, San Diego
8. Jacobs, PM, *The Cancer Imaging Archive*, April 2016, AACR, Boston
9. Jacobs, PM, *The NCI (formerly GE) IND for C-13 Pyruvate: A resource for the community.*
Fourth International Workshop on Hyperpolarized Carbon-13, February 2016, Philadelphia
10. Jacobs, PM, *Supply of IND Agents to NCI-sponsored trials by Skilled Academic Sites*, ECOG-ACRIN fall meeting, November 2015, Orlando FL
11. Jacobs, PM, *The Cancer Imaging Archive, FNIH Biomarker Consortium Cancer Steering Committee Annual Meeting*, October 2015, Rockville, MD
12. Jacobs, PM, *NCI: New and Current Initiatives that Support Imaging in Precision Medicine*, World Congress of Molecular Imaging, September 2015, Honolulu HI
13. Jacobs, PM, *New and Current Initiatives that Support Imaging in Precision Medicine: Funding and Resources at NCI for Molecular Imaging Agents*, World Congress of Molecular Imaging, September 2015, Honolulu HI

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14. Jacobs, PM, Advancing Prostate Cancer Imaging: NCI Perspective, SNMMI Annual Meeting, June 2015 Baltimore MD
15. Jacobs, PM, Funding and Resources at NCI/NIH for Translation of Molecular Imaging Agents, SNMMI Annual Meeting, June 2015 Baltimore MD
16. Jacobs, PM, NCI Resources for Translational Molecular Imaging, 21st Blood Brain Barrier Meeting, March 2015 Skamania, WA
17. Jacobs, PM, Getting Your Drug into Early Trials - Clearing the Regulatory Hurdles, 21st Blood Brain Barrier Meeting, March 2015 Skamania, WA
18. Jacobs, PM NCI Resources for Translational Molecular Imaging, 3rd Theranostics World Congress on Gallium 68 and PRRT, March 2015, Baltimore, MD
19. Jacobs, PM, Is validation and dissemination of imaging of interest for the NCI?, Definition of a New Paradigm for the Validation and Dissemination of Radiopharmaceuticals: Unmet Needs and Opportunities in Prostate Cancer in Washington, D.C., on February 15-16, 2015
20. Jacobs, PM and Rieves, RD, Obtaining an IND – FDA Regulatory Issues, Fluorescence Guided Surgery Symposium: Clinical Translation of Molecular Imaging for Surgical Navigation, American Society of Image Guided Surgery, Feb 2015, Eden Roc, Miami
21. Jacobs, PM, NCIs Quantitative Imaging Network (QIN): Progress and Impact on Clinical Trials, RSNA, Chicago , Nov 30- Dec 5, 2014
22. Jacobs, PM, Getting your Drug into Early Clinical Trials – Clearing the Regulatory Hurdles, Targeted Radionuclide Therapy, NIH campus, Oct 24-25, 2014
23. Jacobs, PM, The Cancer Imaging Archive, FNIH Biomarker Consortium, Annual Meeting, Rockville, Oct 24, 2014
24. Jacobs, PM, Clinical Translation of Molecular Imaging: the Role of NCI, International Symposium on Molecular Imaging and Translational Medicine, Beijing, Sept 13-15, 2014
25. Jacobs, PM, Getting your Drug into Early Clinical Trials – Clearing the Regulatory Hurdles, Gordon Research Conference, Metals in Medicine, June 22-25,2014 Proctor Acaademy, Andover, NH
26. Jacobs, PM, Session moderator: FDA updates on diagnostic radiopharmaceuticals, SNMMI annual meeting, June 7-11, 2014, St. Louis
27. Jacobs, PM, Supply of IND Agents to ECOG-ACRIN by Skilled Academic Sites, ECOG-ACRIN Spring meeting, Chicago, May 8-10, 2014
28. Jacobs, PM, Translating Imaging Agents into Clinical Trials, University of Wisconsin Radiology Grand Rounds, Madision, WI, April 10, 2014

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29. Jacobs, PM, BBB's 20th Meeting. Where has imaging been? Where is imaging going?, Blood Brain Barrier Consortium 20th annual meeting, Sunriver Oregon, March 19-23, 2014
30. Jacobs, PM, NCI's Quantitative Imaging Network (QIN): Progress and Impact on Clinical Trials, RSNA, Chicago, Dec 1- Dec 6, 2013
31. Jacobs, PM, NCI Resources for Translational Molecular Imaging Research, Advanced Molecular Imaging and Its Clinical Translation, Univ. of Ala Comprehensive Cancer Center, Annual Retreat, Birmingham, Nov 5, 2013
32. Jacobs, PM, Supply of IND Agents, Experimental Imaging Science Committee ECOG-ACRIN Fall Meeting, Hollywood FL Nov 14-16, 2013
33. Jacobs, PM, NCI Resources for Translational Molecular Imaging Research, Advanced Molecular Imaging and Its Clinical Translation, Oct 27-30, 2013
34. Jacobs, PM, NCI Programs in Translational Molecular Imaging Research, NIBIB Workshop on Clinical Translation of Molecular Imaging Probes and Technology Lister Hill Auditorium, National Institutes of Health, Bethesda, MD, August 2, 2013
35. Jacobs, PM, Moderator, FDA and NIH: Critical Concepts for Diagnostic Radiopharmaceutical Research. Society of Nuclear Medicine and Molecular Imaging, June 2013 Vancouver BC
36. Jacobs, PM Overcoming Regulatory Hurdles in Molecular Imaging: The NCI Experience, Society of Nuclear Medicine and Molecular Imaging June 2013 Vancouver BC
37. Jacobs, PM, Translational Molecular Imaging: Promises and Pitfalls, [6th Imaging in Drug Discovery and Development Conference](#), Boston MA **May 8-10, 2013**
38. Jacobs, PM, Moderator, NCI resources for Imaging Research, AACR Annual Meeting, Washington DC, April 6-10, 2013
39. Jacobs, PM, Facilitating Access to Investigational Imaging Agents, AACR Annual Meeting, Washington DC, April 6-10, 2013
40. Jacobs, PM, Lessons learned: NCI's PET INDs and F-18 NaF NDA, 34rd Annual High Country Nuclear Medicine Conference, Vail, CO, March 2013
41. Jacobs, PM, New FDA Guidance: Investigational New Drug Applications (INDs) for Positron Emission Tomography (PET) Drugs, Bio/Pharmaceutical Imaging Forum, December 2012, Philadelphia, PA
42. Jacobs, PM, Translational Molecular Imaging: A View from the NCI, Radiological Society of North America (RSNA), November 2012, Chicago, IL
43. Jacobs, PM, The National Cancer Institute's NEXt Program, Molecular Imaging: Preclinical and Clinical Advances, Harvard Medical School, October 2012, Boston, MA

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44. Jacobs, PM, Overcoming Regulatory Hurdles in Investigational Molecular Imaging: The NCI Experience, ADAPT Congress Session, September 2012, Washington, DC
45. Jacobs, PM, NCI's Initiative in INDs: Update on Investigational Radiopharmaceuticals, Society of Nuclear Medicine and Molecular Imaging, 2012 Annual Meeting, June 2012, Miami Beach, FL
46. Jacobs, PM, NCI Cancer Imaging Program Quantitative Imaging Network (QIN) & Network for Translational Research (NTR), Society of Nuclear Medicine and Molecular Imaging, 2012 Annual Meeting, June 2012, Miami Beach, FL
47. Jacobs, PM, The Role of NIH/NCI in Molecular Imaging Trials. Society of Nuclear Medicine and Molecular Imaging, 2012 Annual Meeting, June 2012, Miami Beach, FL
48. Jacobs, PM, Axelrad J, Yang L, Gelovanni J, Challenges to Translational of Molecular Imaging and Therapy, Panel, 3rd Multimodality Cardiovascular Molecular Imaging Symposium, April 2012, Bethesda, MD
49. Jacobs, PM, Alternative Sources of Funding from the National Cancer Institute, 10th YHLC Business of Biotechnology, Yale University, March 2012, New Haven CO
50. Jacobs PM, Advances and opportunities in CNS imaging 18th Annual Neuro-Oncology and Blood-Brain Barrier Consortium Meeting, March 2012, Skamania WA
51. Jacobs, PM, Lessons learned: NCI's PET INDs and F-18 NaF NDA, 33rd Annual High Country Nuclear Medicine Conference, Steamboat Springs, CO, March 2012
52. Jacobs, PM, Translating Molecular Imaging into Phase 3 Trials, 5th EORTC-NCI-ASCO Annual Meeting on "Molecular Markers in Cancer", Brussels, Belgium, October 2011
53. Jacobs PM, Strategies and Pathways: Translating Molecular Imaging Agents into Phase 3 and Beyond, Society of Nuclear Medicine 2011 Annual Meeting, San Antonio, June 2011
54. Chair: Bioimaging and Other Applications for Disease And Treatment Evaluation; 2010 Second Annual American Society for Nanomedicine Conference – October 14-16 – Potomac, Maryland
55. Moderator: Industry Panel on the logistical and regulatory issues of experimental PET agents; ACRIN Fall meeting, October 3, 2010 in Pentagon City
56. Jacobs, PM, Navigating the Regulatory Shoals: Transitioning Your Imaging Agent to the Clinic, Society of Nuclear Medicine 2010 Annual Meeting, Salt Lake City, June 2010
57. Jacobs, PM, Lessons learned: NCI's FLT F-18 IND and F-18 NaF NDA, Two Topic Imaging Workshop: Standards For Imaging Endpoints And Manufacturing Of PET Radiopharmaceutical Products In Clinical Trials, Bethesda, MD
58. Jacobs, PM, Accessing NCI Resources: Imaging Agent Development, NCI Translational Science Meeting, November, 2009, Vienna, VA.

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59. Jacobs, PM, What is an IND and How Does It Affect ACRIN Clinical Trials, ACRIN 2009 Fall Meeting, Pentagon City, VA, October 2009
60. Jacobs, PM, The NCI Cancer Imaging Program: Developing imaging tools for drug development, American Association for Cancer Research, 100th Annual Meeting, Denver, CO, April 2009
61. Jacobs, PM, CMC Requirements in INDs, Society of Nuclear Medicine 2009 Winter Meeting, Clearwater, Florida, February 2009
62. Jacobs PM, Imaging Probes: Regulatory Guidelines, Availability, and Considerations for Research, ACRIN Fall Meeting, October 2008, Pentagon City VA
63. Jacobs PM, The IND Process: How to get your experimental drug into human trials, Fourteenth Annual Neuro-Oncology and Blood-Brain Barrier Consortium Meeting, March 2008, Skamania WA
64. Jacobs PM, Regulatory Considerations for Trials of Imaging Drugs and Devices: FDA, INDs, IDEs, RDRC, IRBs, DSMBs, CTEP, Radiological Society Of North America Clinical Trials Methodology Workshop, Scottsdale, Arizona January 5-11, 2008
65. Jacobs, PM, What's in an Investigational New Drug Application (IND)? Workshop: Clinical Development of Small Molecules National Cancer Institute, January 2008 Bethesda, Maryland
66. Jacobs, PM, Economics of Contrast Agent Development, The Molecular Imaging Biomarker Development and Clinical Trials, Clinical Pre-conference at AMI-SMI Joint Meeting September 2007, Providence Rhode Island
67. Jacobs, PM, The IND Process and the Exploratory IND for Molecular Imaging Agent, The Molecular Imaging Biomarker Development and Clinical Trials Clinical Pre-conference at AMI-SMI Joint Meeting September 2007, Providence Rhode Island
68. Jacobs, PM, Nuts and Bolts--You Too Can Prepare an IND, Workshop, Phase 0 Trials in Oncologic Drug Development, Division of Cancer Treatment and Diagnosis, National Cancer Institute, September 5, 2007, Bethesda, MD
69. Jacobs PM, What is an IND and How Does It Affect ACRIN Clinical Trials. Presented to at the American College of Radiology Imaging Network meeting October 5- 7, 2006 Pentagon City, VA
70. Jacobs PM, Use Of Imaging Agents In Pediatric Cancer Management: Regulatory Issues, at the Pediatric Oncology Imaging Frontiers Workshop, Oct 23-24, 2006 Washington, DC
71. Jacobs PM, The IND Process and the Exploratory IND for Molecular Imaging Agents Academy of Molecular Imaging Meeting, March 29, 2006, Orlando FL. Presented in Session: Translational Molecular and Biomarker Development
72. Jacobs PM, Economics of Contrast Agent Development Academy of Molecular Imaging Meeting, March 29, 2006, Orlando FL. Presented in Session: Translational Molecular and Biomarker Development

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73. Jacobs, PM, Iron Oxide Drugs: Medical Uses for Rust, Radiology Research Conference, October 14, 2005, U. Mass. Medical School, Worcester, MA. Emphasis on MR imaging uses of iron oxides
74. (Oral Presentation and session moderator). Jacobs, PM, Cell and Molecular Imaging in the CNS, Eleventh Annual Neuro-Oncology and Blood-Brain Barrier Consortium Meeting, March 2005, Portland, OR.
75. Short presentation on the economics of imaging agents at the 6th National Forum on Biomedical Imaging in Oncology, April 7-8, 2005, Bethesda, MD. .
<http://www.cancer.gov/dctd/presentations05.html>
76. Confidential invited lecture September 2000 to FDA: "Iron Oxide Drugs: Medical Uses for Rust." Seminar presented at the FDA at the invitation of a reviewing chemistry group, emphasis on chemistry and manufacturing of nanoparticle iron oxide drugs.

PRESENTATIONS

1. Paula M. Jacobs; Yan Chen; Charles Kahn Jr; Katherine P. Andriole, Looking Beyond the Hype: A Scientific Perspective on AI in Imaging, Radiological Society of North America, 2021 Annual Meeting, November 2021
2. Paula M. Jacobs, James L. Tatum, Joseph D. Kalen, Lilia V. Ileva, Lisa A. Riffle, Keita Saito, Nimit L. Patel, Jessica Phillips, Melinda Hollingshead, Yvonne A. Evrard, Michelle Gottholm-Ahalt, Chelsea Sanders, Amy James, Simone Difilippantonio, Elijah F. Edmondson, James H. Doroshov Imaging Characterization of NCI Patient Derived Model Repository (PDMR) Xenografts Co-Clinical Imaging Research Resources Program, 2021 Annual Meeting, virtual June 2021
3. Paula M. Jacobs, PhD, James L. Tatum, MD, Joseph D. Kalen, PhD, Lisa A. Riffle, BS, Nimit L. Patel, MS, Jessica Phillips, Melinda Hollingshead, DVM, PhD, Yvonne A. Evrard, PhD, Michelle Gottholm-Ahalt, PhD, Chelsea Sanders, BS, Simone Difilippantonio, PhD, James H. Doroshov, MD. Baseline 18F fluorodeoxyglucose(FDG)-positron emission tomography (PET) in patient derived (PD) xenograft models from the National Cancer Institute Patient Derived Model Repository (PDMR). SNMMI 2021 Annual Meeting, virtual 6/2021; Journal of Nuclear Medicine May 2021, 62 (supplement 1) 1470
4. Paula M. Jacobs, James L. Tatum, Joseph D. Kalen, Lilia V. Ileva, Lisa A. Riffle, Keita Saito, Nimit L. Patel, Jessica Phillips, Melinda Hollingshead, Yvonne A. Evrard, Michelle Gottholm-Ahalt, Chelsea Sanders, Amy James, Simone Difilippantonio, Elijah F. Edmondson, James H. Doroshov. Imaging characterization of NCI patient derived model repository (PDMR) xenografts, AACR 2021 meeting, virtual 4/2021
5. S Kummar, SL Safgren, M Lindenberg, K Kurdziel... 591 Phase I Trial of Z-endoxifen with Estrogen Receptor Imaging in Adults with Refractory Hormone Receptor-positive Breast Cancer, Desmoid Tumors, Gynecologic Tumors, or...- European Journal of Cancer, 2012

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6. Neuwelt EA, Hamilton BE, Várallyay CG, Rooney W, Edelman R, Jacobs PM, Watnick S USPIO: A future alternative magnetic resonance contrast agent for patients at risk for nephrogenic systemic fibrosis?, 46th Annual Meeting American Society of Neuroradiology, June 2008, New Orleans
7. Lewis J, Jacobs PM, Frigo T, Lawler D, Miller P, Kausz A, Bengel H, Biodistribution of ⁵⁹Fe-Labeled Ferumoxytol into Red Blood Cells Following Intravenous (IV) Administration in Rats, Annual Meeting American Society of Nephrology 40th Annual Meeting and Scientific Exposition, November 2007, San Francisco
8. Li, W, Salanitri J, Dunkle E, Tutton S, Pierchala L, Jacobs P, Prasad PV, Edelman RR, Mr Evaluation of Deep Venous Thrombosis (DVT) of the Lower Extremities using Ferumoxytol. In: Proc. Intl. Soc. Mag. Reson. Med. 2006:14: 517
9. Lewis JM, Jacobs PM, Frigo TB, Evaluation of a New Iron Replacement Therapy, Ferumoxytol: Free Iron, TSAT and Hemoglobin Changes, Third World Congress of Nephrology Singapore, June 2005
10. GreenJarvis BM, Jacobs PM, Lee H, Holburn G, Price R, Lin C, A technique for monitoring extracranial tumor angiogenesis with a MRI blood pool agent, ferumoxytol, Proc Amer Assoc Cancer Res 2005;46:3798
11. Hu TC-C. Bao W, Lenhard SC., Schaeffer TR, Mirabile RC, Jacobs P, Yue T-L, Willette RN, Jucker BM. In Vivo Monitoring of Inflammatory Cell Mobilization to Heart Following Myocardial Infarction, In: Proc. Intl. Soc. Mag. Reson. Med. 11 (2004) 2733
12. Spinowitz BS, Schwenk MH, Jacobs P, Bolton WK, Kaplan MR, Finkelstein FO, Comparison of Two Intravenous Ferumoxytol Dosing Regimens With Oral Iron Therapy in Anemic Hemodialysis (HD) Patients Presented at The National Kidney Foundation Annual Meeting 2004, Chicago, IL
13. Yancy D, Olzinski, A. Hu T. C-C, Lenhard SC, Aravindhyan K, Jacobs P, Willette RN, Jucker BM, Quantitative Assessment of Ultrasmall Superparamagnetic Iron Oxide (USPIO) Contrast Agent Uptake in Atherosclerotic Plaque by MRI, In: Proc. Intl. Soc. Mag. Reson. Med. 11 (2004) 1919
14. Arai T, Caffarelli AD, Greve JM, Jacobs PM, Robbins RC, McConnell MV, Yang PC, In Vivo Magnetic Resonance Imaging of Inflammation in Myocardial Infarct Mouse Model. 3rd Annual Meeting of the Society for Molecular Imaging, September 2004, St. Louis.
15. Jacobs PM, Lewis JM, Frigo T, Bleomycin Detectable Iron and Percent Transferrin Saturation In Patients Receiving Either Ferumoxytol, Iron Gluconate, and Iron Sucrose J. Am. Soc Nephrol 15 (2004), 546A
16. Jacobs PM, Landry R, Davis R, Bolton W, Safety and Pharmacokinetics of Ferumoxytol In Iron Replacement Therapy In Hemodialysis Patients Receiving Erythropoietin, J Am Soc Nephrol 2003: 14:27A

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17. Lewis JM, Jacobs PM and Frigo TB, Comparison of Free Iron in Ferumoxytol with Other Iron Therapeutics, J Am Soc Nephrol 2003: 14: 771 A
18. Spinowitz BS, Schwenk MH, Jacobs P, Bolton WK, Kaplan M, Charytan C, Galler M, Safety and Efficacy of Ferumoxytol Therapy in Anemic, Iron Deficient Chronic Kidney Disease Patients, J Am Soc Nephrol 2003:14: 772A
19. Buist R, Sun, X Wells J, McCutcheon K, Jacobs P, Peeling J, Yong VW Utility of USPIO's in spinal cord MRI in a murine model of EAE, Proc. Intl. Soc. Mag. Reson. Med., 2003:10:2317, Toronto July 2003
20. Jacobs P and Shenoda M, A Phase I Pharmacokinetics and Safety Study Of Ferumoxytol, a New Intravenous Iron Therapy, J Am Soc Nephrol 2003: 14: 770A
21. Ersoy H, Kent C, Jacobs C, Roessel M, Zhang H, Prince M, Detecting Aortic Stent Graft Leak with Blood Pool MRA Using Ferumoxytol. In: RSNA scientific assembly and annual meeting program. Oak Brook, Ill: RSNA 2003: 441VI-p
22. Jacobs P, Shenouda M, A Phase 1 Pharmacokinetics and Safety Study of Ferumoxytol: A New Blood Pool and Macrophage Specific Superparamagnetic Iron Oxide MR Contrast Agent. In: RSNA scientific assembly and annual meeting program. Oak Brook, Ill: RSNA 2003: 441VI-p
23. Benderbous S, Corot C, Jacobs P, Bonnemain B, Superparamagnetic Agents: Physicochemical Characteristics and Pre-clinical Imaging Evaluations. Acad. Radiol, 1996: 3 Supple 2, S292-294
24. Bonnemain B, Chachuat A, Benderbous S, Jacobs P, Dugit-Gros P. Superparamagnetic Agents: Physicochemical Characteristics and Clinical Applications. 11th Annual Scientific Meeting, ESMRMB 1994;Vienna, April 20-24 (Book of Abstracts):427 n.398
25. Bonnemain B, Chachuat A, Benderbous S, Jacobs P, Dugit-Gros P. Superparamagnetic Agents (USPIO, SPIO) Characteristics and Application in Abdominal MRI. 5th Annual Meeting, ESGR 1994;Taormina, June 1-4 (Book of Abstracts):103.
26. Doucet D, Jacobs P, Engelstad BL. MR Imaging of the Liver with Particulate Agents: Pharmacology of AMI-25. 17th International Congress of Radiology (ICR) 1989;Paris, July 1-8:974 n.288.and Magnetic Resonance Imaging, 1989; 17 (Suppl. 1): 217; 89th Annual Meeting of The American Roentgen Ray Society, 1989; New Orleans, May 7-12: 143 n.126).
27. Doucet D, Bonnemain B, Stark DD, Engelstad BL, Jacobs P. Produits de Contraste Specifique ou Non dans le Diagnostic des Tumeurs Hepatiques Developpement d'un Agent Particulaire en IRM. 3eme Colloque Imagerie Medicale en Cancerologie 1988;Tokyo, October 3-8:97-105.
28. Jacobs PM, Goodwin HA, Rosenberg IH, and Meienhofer J, Synthesis of Peptide Homologs of Folic Acid, Presented at the 2nd Northeast Regional Meeting of the American Chemical Society, Providence, R. I., 20 October 1970