

Resource Summary Report

Generated by PRECISE-TBI on Sep 8, 2026

Molecular Imaging and Contrast Agent Database

RRID:SCR_006712

Type: Tool

Proper Citation

Molecular Imaging and Contrast Agent Database (RRID:SCR_006712)

Resource Information

URL: <http://www.ncbi.nlm.nih.gov/books/NBK5330/>

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Description: THIS RESOURCE IS NO LONGER IN SERVICE, documented May 10, 2017. A pilot effort that has developed a centralized, web-based biospecimen locator that presents biospecimens collected and stored at participating Arizona hospitals and biospecimen banks, which are available for acquisition and use by researchers. Researchers may use this site to browse, search and request biospecimens to use in qualified studies. The development of the ABL was guided by the Arizona Biospecimen Consortium (ABC), a consortium of hospitals and medical centers in the Phoenix area, and is now being piloted by this Consortium under the direction of ABRC. You may browse by type (cells, fluid, molecular, tissue) or disease. Common data elements decided by the ABC Standards Committee, based on data elements on the National Cancer Institute's (NCI's) Common Biorepository Model (CBM), are displayed. These describe the minimum set of data elements that the NCI determined were most important for a researcher to see about a biospecimen. The ABL currently does not display information on whether or not clinical data is available to accompany the biospecimens. However, a requester has the ability to solicit clinical data in the request. Once a request is approved, the biospecimen provider will contact the requester to discuss the request (and the requester's questions) before finalizing the invoice and shipment. The ABL is available to the public to browse. In order to request biospecimens from the ABL, the researcher will be required to submit the requested required information. Upon submission of the information, shipment of the requested biospecimen(s) will be dependent on the scientific and institutional review approval. Account required. Registration is open to everyone. Searchable book regarding molecular imaging and contrast agents (under development, in clinical trials or commercially available for medical applications) that have in vivo data (animal or human) published in peer-reviewed scientific journals prior to June 30 of 2013. 1444 agents are currently listed and there will be no more updates. Also available is a downloadable list of FDA approved contrast agents (Latest update: January 2013) and a Molecular Imaging Probes and Contrast Agents List (MIP & CA List) created by the MICAD staff by screening the PubMed / MedLine databases and other appropriate sources of such information. Only

agents used in animal or human studies yielding in vivo data were selected for inclusion in the list. The list is by no means considered complete. No one imaging modality has been given preference over the others and the omission of any agent(s) or the introduction of any errors in the list is purely unintentional. The MIP & CA List is subject to the same copyright and disclaimers as the rest of the MICAD content. The database includes, but is not limited to, agents developed for positron emission tomography (PET), single photon emission computed tomography (SPECT), magnetic resonance imaging (MRI), ultrasound (US), computed tomography (CT), optical imaging, planar radiography, and planar gamma imaging. The information on each agent is summarized in a book chapter format containing several sections such as Background, Synthesis, in vitro studies, Animal Studies (with sub-sections: rodents, other non-human primate animals, and human primates), Human Studies, and References. In addition, the references are linked to PubMed for retrieval of the publication abstract. Also, each chapter contains links to resources at the National Center for Biotechnology Information (NCBI) and other relevant databases regarding the target of the imaging probe or contrast agent.

Abbreviations: MICAD

Synonyms: Molecular Imaging and Contrast Agent Database (MICAD)

Resource Type: book, data or information resource, data set, database, narrative resource

Keywords: contrast agent, in vitro, in vivo, magnetic resonance imaging, molecular imaging, molecular library, molecular probe, probe, positron emission tomography, single photon emission computed tomography, ultrasound, computed tomography, optical imaging, planar radiography, planar gamma imaging, gold standard

Funding: NIH Common Fund

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Molecular Imaging and Contrast Agent Database

Resource ID: SCR_006712

Alternate IDs: nif-0000-00215

Old URLs: <http://www.ncbi.nlm.nih.gov/books/bookres.fcgi/micad/home.html>

Record Creation Time: 20220129T080237+0000

Record Last Update: 20260905T132559+0000

Ratings and Alerts

No rating or validation information has been found for Molecular Imaging and Contrast Agent Database.

No alerts have been found for Molecular Imaging and Contrast Agent Database.

Data and Source Information

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Xu X, et al. (2024) The Theranostic Genome. Nature communications, 15(1), 10904.

Yu RS, et al. (2013) Preliminary Study on Hepatocyte-Targeted Phosphorus-31 MRS Using ATP-Loaded Galactosylated Chitosan Oligosaccharide Nanoparticles. Gastroenterology research and practice, 2013, 512483.

Bilgen M, et al. (2013) Feasibility and merits of performing preclinical imaging on clinical radiology and nuclear medicine systems. International journal of molecular imaging, 2013, 923823.

Meng Q, et al. (2013) Molecular imaging probes for diagnosis and therapy evaluation of breast cancer. International journal of biomedical imaging, 2013, 230487.

Belotti D, et al. (2011) Targeting angiogenesis with compounds from the extracellular matrix. The international journal of biochemistry & cell biology, 43(12), 1674.