

## EQUIPMENT

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ITG has a variety of radioanalytical counting equipment including alpha, beta, and gamma counters. Most of the work with radiopharmaceuticals is done using NaI well crystals which we have coupled to multichannel analyzers and sample changers. We also have several Ge crystals for high resolution gamma spectroscopy plus liquid scintillation capabilities to work with beta-emitting radionuclides.

## HOW TO WORK WITH US

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ITG has a variety of ways to work with our customers. Usually, we perform fee-for-service early stage R&D meeting agreed upon deliverables. We are very flexible and are open to a variety of business models in which we can participate.

## HOW TO CONTACT US

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Please visit our web site at [www.isotherapeutics.com](http://www.isotherapeutics.com). Feel free to contact any of us individually via e-mail or phone.

979.848.0800 - Main  
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1004 S. Velasco St.  
Angleton, Texas 77515

# IsoTherapeutics Group, LLC

Radiopharmaceutical R&D and  
Consulting



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Providing consulting and research & development services. Areas of experience and expertise include:

- Radiopharmaceuticals
- Chelation
- Conjugation
- Isotope selection
- Radiolabeling
- Synthetic chemistry
- Small animal studies
- Target processing

## ABOUT ITG

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IsoTherapeutics Group (ITG) is a radiopharmaceutical company that provides R&D services for the purpose of aiding our customers and collaborators in the development of pharmaceuticals. The company scientists have extensive experience in the development of radiopharmaceuticals, particularly bone-seeking radiopharmaceuticals. Additionally, we have experience designing antibody conjugates for radioimmunotherapy. Our capabilities include synthetic organic chemistry and chelation chemistry, with particular expertise in bifunctional chelants for radiolabeling proteins. Additional capabilities include radioanalytical and radiochemistry, with expertise in diagnostic and therapeutic isotopes. The company has a radioactive materials license to handle radioisotopes of interest to the radiopharmaceutical community. ITG has a small animal testing facility to perform biodistribution and pharmacokinetic studies on normal and/or xenograft models using radio-labeled compounds.

The company's business model is to collaborate with companies, universities, and medical centers that complement our offerings and technologies for developing novel diagnostic and therapeutic agents for severe diseases. Current collaborators include RadioMedix, Excel

Diagnostics, MD Anderson Cancer Center, Texas A&M University, University of Missouri - Columbia, Valco Instruments Company and several other virtual or near-virtual biopharma companies.

Current drug projects nearing clinical trial stage include "Liquid Brachytherapy" for treating inoperable solid tumors and two radiolabeled proteins including an imaging agent for unstable vascular plaque and a treatment for leukemia. Additional technologies include treatments for metastatic bone cancer, bone marrow ablation for bone marrow transplantation, and bladder cancer.

The company scientists, while employed at the Dow Chemical Company developed QUADRAMET® a radiopharmaceutical for treatment of bone pain due to metastatic cancer, treatments for arthritis, osteoporosis, and osteomyelitis, just to name a few. ITG scientists have received over 100 patents for developing chemistry and radiopharmaceutical formulations.

ITG works with customers in a variety of ways. We engage with customers every step of the way with the final goal being reduction of costs and shortening of the time to clinical trials.

## RADIOISOTOPE LICENSE

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ITG has a radioactive materials license from the State of Texas allowing us to handle radioisotopes of interest to the radiopharmaceutical community. Some of the isotopes with which we have experience include  $^{99m}\text{Tc}$ ,  $^{131}\text{I}$ ,  $^{125}\text{I}$ ,  $^{153}\text{Sm}$ ,  $^{166}\text{Ho}$ ,  $^{177}\text{Lu}$ ,  $^{90}\text{Y}$ ,  $^{117m}\text{Sn}$ ,  $^{225}\text{Ac}$ ,  $^{213}\text{Bi}$ ,  $^{35}\text{S}$ ,  $^{65}\text{Zn}$ , and others.

## ANIMAL FACILITY

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Our laboratory has a dedicated animal room complete with HEPA-filtered cabinet for housing athymic mice. We own a variety of rodent cage types including metabolic cages. ITG is registered with the USDA as a Class R Research Facility under the Animal Welfare Act. We routinely perform biodistribution and pharmacokinetic studies in small animals. We use both normal animals and tumor xenografts in athymic mice.

Additionally, we have biological equipment for culturing cell lines such as  $\text{CO}_2$  incubator,  $-80^\circ\text{C}$  freezer, Biological Safety Cabinet, steam autoclave, and microscopes. A 96-well plate washer & reader allows us to efficiently set up ELISA assays.