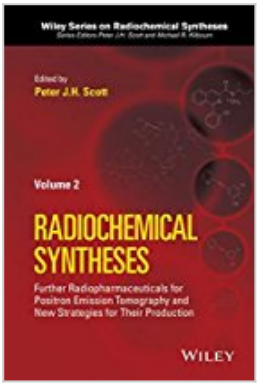

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This book describes methods and procedures for preparing PET radiopharmaceuticals, and highlights new methods for conducting radiochemical reactions with carbon-11 (C11) and fluorine-18 (F18), which are two of the most commonly used radionuclides in positron emission tomography (PET) imaging.

- Provides reliable methods for radiochemical syntheses and reactions, including all essential information to duplicate the procedure
- Eliminates the time-consuming process of searching journal articles and extracting pertinent details from lengthy experimental sections or supporting information
- Focuses on an emerging and important area for pharmaceutical and medical applications
- Encompasses technical, regulatory, and application aspects
- Includes solid-phase radiochemistry, transition-metal catalyzed radiochemistry, microfluidics, click chemistry, green radiochemistry and new strategies for radiopharmaceutical quality control

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- Sales Rank: #3857510 in Books
- Published on: 2015-06-08
- Original language: English
- Number of items: 1
- Dimensions: 9.50" h x .80" w x 6.40" l, .0 pounds
- Binding: Hardcover
- 288 pages

Editorial Review

From the Back Cover

The ultimate reference guide to the synthesis of radiopharmaceutical

The Radiochemical Syntheses series provides scientists and professionals with a comprehensive reference to proven synthetic methods for radiochemical reactions, along with step-by-step guidance on how to replicate these syntheses in the laboratory.

Volume 2 in the series focuses on the synthesis and purification of radiopharmaceuticals in clinical use today as well as important new methods in radiochemistry. Contributions from leading researchers detail methods and procedures for conducting radiochemical reactions to prepare important radiopharmaceuticals that are used in positron emission tomography (PET) imaging. Also highlighted in this book are new approaches to carbon-11 (C11) and fluorine-18 (F18), which are two of the most commonly used radionuclides in PET imaging. New methods include solid-phase radiochemistry, transition-metal catalyzed radiochemistry, microfluidics, click chemistry, green radiochemistry and new strategies for radiopharmaceutical quality control. These detailed monographs provide readers the necessary information needed to reproduce these synthetic reactions and new procedures in their own labs.

Readers have key experimental details culled from the literature at their fingertips, greatly simplifying the process of qualifying a site for the clinical production of new radiopharmaceuticals.

About the Author
Peter J. H. Scott is an Assistant Professor in the Department of Radiology at the University of Michigan Medical School (USA), Director of the University of Michigan PET Center (USA) and a member of the Interdepartmental Program in Medicinal Chemistry. Professor Scott edited *Linker Strategies in Solid-Phase Organic Synthesis* (also from Wiley) and is the series editor for both the Wiley Series on Radiochemical Syntheses and the Wiley Series on Solid Phase Organic Syntheses.

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