

**Program of Study** : General Medicine

**Course** : Radiopharmacy and preclinical studies of radiopharmaceuticals.

**Abbreviation** : NUM/VAB22

**Schedule** : 4 hours of lectures  
4 hours of exercises

**Course Distribution** : 4th year

**Number of Credits** : 2

**Course Form** : Lectures, exercises

**Lectures :**

**Teachers :** doc. MUDr. Pavel Koranda, Ph.D.  
PharmDr. Radek Navrátil  
PharmDr. Miloš Petřík, Ph.D.

**Study:** block

**Block date** 6.6.2023 13.00 – 16.00

	<b>Block Day</b>	<b>Subject</b>	<b>No. of Less.</b>	<b>Teacher</b>
<b>1</b>	6.6.2023	Basics of radiopharmacy - sources of radionuclides, preparation of radiopharmaceuticals, radiopharmaceuticals application methods, biokinetics of radiopharmaceuticals. New radiopharmaceuticals and perspectives of nuclear medicine - theranostics. <b>(pro všech 8 studentů)</b>	<b>4</b>	doc. MUDr. Pavel Koranda, Ph.D. PharmDr. Radek Navrátil PharmDr. Miloš Petřík, Ph.D.

**Exercises :**

**Leading Teacher :** PharmDr. Miloš Petřík, Ph.D.

**Study :** Block

**Block Date :** 7.6.2023 13.00 – 16.00  
8.6.2023 13.00 – 16.00

	<b>Block Day</b>	<b>Subject</b>	<b>No. of Less.</b>
<b>1</b>	7.6.2023	Preclinical development of radiopharmaceuticals using PET/SPECT/CT. <b>(ve 2 skupinách po 4 studentech)</b>	<b>4</b>
<b>2</b>	8.6.2023		

**Completed by :** Kolokvium

**Requirements :** Active and complete attendance at exercises

**Literature :**

1. Mettler, F. A. Jr., Guibertau, M. J. Essentials of Nuclear Medicine Imaging

2. Lyn, E., Alavi, A. PET and PET/CT: A Clinical Guide.
3. Saha, G.B. Fundamentals of Nuclear Pharmacy. 6th ed. New York: Springer Science+Business Media; 2010.