



NUME ȘI PRENUME: Naum Gratian Alexandru

SECTIA CLINICA/LABORATOR: Laborator Medicina Nucleara/ PET-CT/ Compartiment Terapie cu Iod

GRAD PROFESIONA/DIDACTIC: Medic Primar/Sef de Lucrari

SPECIALITATEA: Medicina Nucleara

DOMENII DE EXPERTIZA/  
TIPURI DE PROCEDURI IN  
PORTOFOLIU: Scintigrafie; PET-CT in Oncologie; PET-CT in Cardiologie; Terapie Radionuclidica.

#### EXPERIENȚA PROFESIONALĂ

2016-prezent Institutul Regional de Oncologie, Strada General Henri Mathias Berthelot 2-4, 700483, Iasi, Romania, Medic primar în specialitatea Medicină Nucleară.

2008-2012 Center for Nuclear Medicine/PET, Department of Radiology, Haukeland University Hospital, Jonas Lies vei 65, 5021, Bergen, Norway, Consultant in Nuclear Medicine.

2002-2007 Turku PET Centre, University of Turku, Kiinamyllynkatu 4-8, 20520, Turku, Finland, Medical Researcher.

2001-2002 Spitalul Clinic Județean de Urgente „Sf.Spiridon”, Bd. Independentei nr. 1, Iași, 700111, România, Medic specialist în specialitatea Medicină Nucleară.

#### EDUCAȚIE ȘI FORMARE

2012-2017 Universitatea de Medicină și Farmacie Grigore T.Popa, Iași, România, Radiologie-Imagistică Medicală, program rezidențiat.

2003-2007 University of Turku, Turku, Finland, Doctoral Studies

1997-2001	Universitatea de Medicină și Farmacie Grigore T.Popa, Iași, România, Medicina Nucleara, program rezidențiat.
1989-1995	Universitatea de Medicină și Farmacie Tîrgu Mureș, Tîrgu Mureș, România, Studii Universitare de Licența.

#### COMPETENTE PERSONALE

Limba(i) maternă(e) Romana

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
ENGLEZA	C1	C1	C1	C1	C1
Scrieți denumirea certificatului. Scrieți nivelul, dacă îl cunoașteți.					

Niveluri: A1/2: Utilizator elementar - B1/2: Utilizator independent - C1/2: Utilizator experimentat  
Cadru european comun de referință pentru limbi străine

## INFORMATII SUPLIMENTARE

## Publicații

**A. Teza de doctorat**

„Advanced analysis techniques of cardiac Positron Emission Tomography". Annales Universitatis Turkuensis: Medica-odontologica. 2007. ISBN 9512933721. Doctor of Medical Sciences.

**B. Articole/ studii in extenso, publicate in reviste din fluxul stiintific international principal (reviste indexate ISI Thompson)**

1. Jari I, Naum AG, Gheorghe L, Negru D, Horjinec P, Ciuntu BM, Timofte D, Ursaru M. Granuloma of Silicone Breast Implants A case report and literature review. REVISTA DE CHIMIE. 2019 Mar 1;70(3):940-2.
2. Jari I, Naum A, Moisii LG, Stefanescu C, Negru D, Ursaru M, Ciuntu BM, Timofte D. Comparative Study by Analytical Multidisciplinary Methods and Oxidative Stress in Breast Cancer Diagnosis. REVISTA DE CHIMIE. 2018 Aug 1;69(8):2254-9.
3. Johnsrud K, Skretting A, Naum AG, Bogsrud TV, Bach-Gansmo T. Characterization of an asymmetric add-on collimator used with a hand-held gamma probe for radioguided surgery and sentinel node detection: a demonstration of an alternative collimation method. Clin Physiol Funct Imaging. 2013 Nov;33(6):478-82.
4. Roivainen A, Naum A, Nuutinen H, Leino R, Nurmi H, Någren K, Parkkola R, Virtanen J, Kallajoki M, Kujari H, Ovaska J. Characterization of hepatic tumors using [11 C] metomidate through positron emission tomography: comparison with [11 C] acetate. EJNMMI research. 2013 Dec 1;3(1):13.
5. Bach-Gansmo T, Dybvik JA, Adamsen TC, Naum A. Variation in urinary excretion of FDG, yet another uncertainty in quantitative PET. Acta radiologica short reports. 2012 Sep;1(8):1-3.
6. Eskola O, Gronroos JT, Naum A, Marjamaki P, Forsback S, Bergman J, Lankimaki S, Kiss J, Savunen T, Knuuti J, Haaparanta M, Solin O. Novel Electrophilic Synthesis of [18F] Fluorodopamine and Comprehensive Biological Evaluation. Eur J Nucl Med Mol Imaging. 2012;39(5):800-10.
7. Iozzo P, Bucci M, Roivainen A, Någren K, Jarvisalo MJ, Kiss J, Guiducci L, Fielding B, Naum AG, Borra R, Virtanen K, Savunen T, Salvadori PA, Ferrannini E, Knuuti J, Nuutila P. Fatty acid metabolism in the liver, measured by positron emission tomography, is increased in obese individuals. Gastroenterology. 2010;139(3): 846-56.
8. Bach-Gansmo T, Schwarzmüller T, Jøraholmen V, Salbu J, Biermann M, Naum A, Kleven-Madsen N. SPECT/CT hybrid imaging; with which CT? Contrast Media Mol Imaging. 2010;5(4):208-12.
9. Ukkonen H, Tops L, Saraste A, Naum A, Koistinen J, Bax J, Knuuti J. The effect of right ventricular pacing on myocardial oxidative metabolism and efficiency: relation with left ventricular dyssynchrony. Eur J Nucl Med Mol Imaging. 2009;36(12):2042-8.
10. Nesterov SV, Han C, Mäki M, Kajander S, Naum AG, Helenius H, Lisinen I, Ukkonen H, Pietilä M, Joutsiniemi E, Knuuti J. Myocardial perfusion quantitation with (15)O-labelled water PET: high reproducibility of the new cardiac analysis software (Carimas). Eur J Nucl Med Mol Imaging. 2009;36(10):1594-602.
11. Kiss J, Naum A, Kudomi N, Knuuti J, Iozzo P, Savunen T, Nuutila P. Non-invasive diagnosis of acute mesenteric ischemia using PET. Eur J Nucl Med Mol Imaging. 2009;36(8):1338-45.
12. Kudomi N, Slimani L, Jarvisalo MJ, Kiss J, Lautamäki R, Naum GA, Savunen T, Knuuti J, Iida H, Nuutila

- P, Iozzo P. Non-invasive estimation of hepatic blood perfusion from H<sub>2</sub> 15O PET images using tissue-derived arterial and portal input functions. *Eur J Nucl Med Mol Imaging*. 2008; 35(10): 1899-911.
13. Tuunanen H, Engblom E, Naum A, Nägren K, Scheinin M, Hesse B, Juhani Airaksinen KE, Nuutila P, Iozzo P, Ukkonen H, Opie LH, Knuuti J. Trimetazidine, a metabolic modulator, has cardiac and extracardiac benefits in idiopathic dilated cardiomyopathy. *Circulation*. 2008; 118(12): 1250-8.
  14. Rigazio S, Lehto HR, Tuunanen H, Nagren K, Kankaanpää M, Simi C, Borra R, Naum AG, Parkkola R, Knuuti J, Nuutila P, Iozzo P. The lowering of hepatic fatty acid uptake improves liver function and insulin sensitivity without affecting hepatic fat content in humans. *Am J Physiol Endocrinol Metab*. 2008; 295(2): E413-9.
  15. Slimani L, Kudomi N, Oikonen V, Jarvisalo M, Kiss J, Naum A, Borra R, Viljanen A, Sipila H, Ferrannini E, Savunen T, Nuutila P, Iozzo P. Quantification of liver perfusion with [(15)O]H<sub>2</sub>O-PET and its relationship with glucose metabolism and substrate levels. *J Hepatol*. 2008;48(6):974-82
  16. Saraste A, Koskenvuo JW, Saraste M, Parkka J, Toikka J, Naum A, Ukkonen H, Knuuti J, Airaksinen J, Hartiala J. Coronary Artery Flow Velocity Profile Measured by Transthoracic Doppler Echocardiography Predicts Myocardial Viability After Acute Myocardial Infarction. *Heart*. 2007; 93(4): 456-7.
  17. Naum A, Tuunanen H, Engblom E, Oikonen V, Sipila H, Iozzo P, Nuutila P, Knuuti J. Simultaneous evaluation of myocardial blood flow, cardiac function and lung water content using [(15)O]H<sub>2</sub>O and positron emission tomography. *Eur J Nucl Med Mol Imaging*. 2007; 34(4): 563-72.
  18. Iozzo P, Jarvisalo MJ, Kiss J, Borra R, Naum GA, Viljanen A, Viljanen T, Gastaldelli A, Buzzigoli E, Guiducci L, Barsotti E, Savunen T, Knuuti J, Haaparanta-Solin M, Ferrannini E, Nuutila P. Quantification of liver glucose metabolism by positron emission tomography: validation study in pigs. *Gastroenterology*. 2007; 132(2): 531-42.
  19. Guiducci L, Gronroos T, Jarvisalo MJ, Kiss J, Viljanen A, Naum AG, Viljanen T, Savunen T, Knuuti J, Ferrannini E, Salvadori PA, Nuutila P, Iozzo P. Biodistribution of the Fatty Acid Analogue 18-F-FTHA: Plasma and Tissue Partitioning Between Lipid Pools During Fasting and Hyperinsulinemia. *J Nucl Med*. 2007; 48(3): 455-462.
  20. Borra R, Maggio R, Kankaanpää M, Parkkola R, Naum A, Tuunanen H, Nägren K, Viljanen T, Ferrannini E, Nuutila P, Iozzo P. Inhibition of Beta-Oxidation Improves Hepatic Steatosis and Metabolism in Obese Non-Diabetic Humans. *Diabetes*. 2007 Jun 2;56.
  21. Tuunanen H, Engblom E, Naum A, Nagren K, Hesse B, Airaksinen KE, Nuutila P, Iozzo P, Ukkonen H, Opie LH, Knuuti J. Free fatty acid depletion acutely decreases cardiac work and efficiency in cardiomyopathic heart failure. *Circulation*. 2006; 114(20): 2130-7.
  22. Tuunanen H, Engblom E, Naum A, Scheinin M, Nagren K, Airaksinen J, Nuutila P, Iozzo P, Ukkonen H, Knuuti J. Decreased myocardial free fatty acid uptake in patients with idiopathic dilated cardiomyopathy: evidence of relationship with insulin resistance and left ventricular dysfunction. *J Card Fail*. 2006; 12(8): 644-52.
  23. Iozzo P, Gastaldelli A, Jarvisalo MJ, Kiss J, Borra R, Buzzigoli E, Viljanen A, Naum G, Viljanen T, Oikonen V, Knuuti J, Savunen T, Salvadori PA, Ferrannini E, Nuutila P. 18F-FDG assessment of glucose disposal and production rates during fasting and insulin stimulation: a validation study *J Nucl Med*. 2006; 47(6): 1016-22.
  24. Guiducci L, Jarvisalo M, Kiss J, Nagren K, Viljanen A, Naum AG, Gastaldelli A, Savunen T, Knuuti J, Salvadori PA, Ferrannini E, Nuutila P, Iozzo P. [11C]palmitate kinetics across the splanchnic bed in arterial, portal and hepatic venous plasma during fasting and euglycemic hyperinsulinemia. *Nucl Med Biol*. 2006; 33(4):521-8.
  25. Naum A, Laaksonen MS, Tuunanen H, Oikonen V, Teras M, Kempainen J, Jarvisalo MJ, Nuutila P, Knuuti J. Motion detection and correction for dynamic (15)O-water myocardial perfusion PET studies. *Eur J Nucl Med Mol Imaging*. 2005; 32(12): 1378-83.
  26. Sundell J, Janatuinen T, Rönnemaa T, Naum A, Laine H, Luotolahti M, Nuutila P, Raitakari OT, Knuuti J. Lifetime glycaemic exposure predicts reduced coronary vasoreactivity in type 1 diabetic subjects. *Diabetic*

- medicine. 2005 Jan;22(1):45-51.
27. Knuuti J, Sundell J, Naum A, Engblom E, Koistinen J, Ylitalo A, Stolen KQ, Kalliokoski R, Nekolla SG, Bax KJ, Airaksinen KJ. Assessment of right ventricular oxidative metabolism by PET in patients with idiopathic dilated cardiomyopathy undergoing cardiac resynchronisation therapy. *European journal of nuclear medicine and molecular imaging*. 2004 Dec 1;31(12):1592-8.