CURRICULUM VITAE

***Jean Luc, Claude, Paul Urbain, M.D., Ph.D., CPE, FASNC***

####

#### PERSONAL

Home Address: 232 Carrington Ln

 Winston-Salem, NC 27127

 Tel.: (610) 212-4167

 E-mail: dr.jlurbain@gmail.com

Business Address: Wake Forest Baptist Medical Center

 Medical Center Boulevard

 Winston-Salem, NC

 Tel.: (336) 716-8109

 E-mail: jurbain@wakehealth.edu

Citizenship: US

#### EDUCATION AND TRAINING

Medical School

 University of Louvain Medical School M.D. 1980
 Brussels, Belgium

##### Medical Specialty Education/Training

 Fellowship, Medical Imaging

 Temple University Hospital, Philadelphia, PA 1986-87

 Residency, Medical Imaging/Nuclear Medicine

 University of Louvain University Hospital, Brussels 1985-86

 Residency, Medicine

 University of Louvain University Hospital, Brussels 1980-85

##### Postdoctoral Training/Education

 American College of Physician Executive 2009-2012

 Ivey Business School Academic Management Diplomate 2005

 Harvard Macy Academic Management Diplomate 2003

 Cleveland Clinic Foundation Health Care Executive

 Management Diplomate 2002

 Fels Institute for Cancer Research and Molecular Biology

 Temple University, Philadelphia (Dr. Reddy) Ph.D.1999

#### APPOINTMENTS

Professional Positions

 Academic

 Consultant 1987-1993

 Catholic University of Louvain, Leuven, Belgium

 Associate Professor of Diagnostic Imaging 1993-1996

 Associate Professor of Medicine 1996-2001

 Professor of Diagnostic Imaging & Molecular Biology 1997-2001
 Temple University, Philadelphia, PA 19140

 Professor, Molecular Biology/Imaging 2000-2001

 Fels Institute for Cancer Research

 Philadelphia, PA 19140

 Professor, Diagnostic Imaging 2003-2012
University of Western Ontario

 London, ON

 Residency Training Program Director 2007-2010

 University of Western Ontario

 London, ON

 Professor Radiology/Nuclear Medicine 2018-

 Wake Forest University

 Winston-Salem, NC

 Hospital

 Chief, Division of Nuclear Medicine 1987-1993

 Deputy Chairman, Internal Medicine

 C.H.G.H., University Affiliated Hospital

 Route de Mons 63

 7301 Hornu, Belgium

 Head, Gastrointestinal Section 1987-1993

 Department of Nuclear Medicine

 Catholic University of Louvain

 Herestraat 49

 3000 Leuven, Belgium

 Staff Physician 1993-2001

 Department of Diagnostic Imaging

 Temple University Hospital

 3400 N Broad Street

 Philadelphia, PA 19140

 Director, Nuclear Medicine 1999-2001

 Fox Chase Cancer Center

 7701 Burholme Avenue

 Philadelphia, PA 19111

 Chairman, Dpt of Molecular & Functional Imaging 2001-2003

 Cleveland Clinic Foundation

 9500 Euclid Avenue

 Cleveland, OH 44195

 City Wide Chief/Chair, 2003-2008

 Dpt of Medical Imaging

 SJHC, LHSC & University of Western Ontario

 London, Canada

 Staff Physician 2003-2010

 Dpt of Medical Imaging

 SJHC, LHSC & University of Western Ontario

 London, Canada

 Staff Physician 2010-present

 Dpt of Medical Imaging

 Brantford General, Pembroke Regional, Stratford General

 Ontario, Canada

 Chief, Medical Imaging 2011-2018

 VA Medical Center- Milton Hershey Penn State Medical College

 1700 South Lincoln Avenue

 Lebanon, PA 17042

 Chief, Nuclear Medicine 2018-

 Medical Director 2019-
Wake Forest Baptist Medical Center

 Medical Center Boulevard

 Winston-Salem, NC 27157

###### Industry/Government Appointments

 Consultant, Janssen Pharmaceutica, Beerse, Belgium 1986-1994

 Consultant, Mallinkrodt Medical, Brussels, Belgium 1987-1993

 Advisor, GE Medical Systems, Milwaukee 2000-present

 Advisor, Marconi Medical Systems, Cleveland 2000-2001

 Advisor, Siemens MS/CTI 2002-2004

 Health Canada Expert Advisor 2007-present

 Medical Director, MDS Nordion 2008-2011

 International Atomic Energy Agency (IAEA) 2016

**EDUCATIONAL ACTIVITIES**

Peer Reviewed Journals: 1990- present

Journal of Nuclear Medicine & Molecular Imaging, European Journal of Nuclear Medicine & Molecular Imaging, Alzheimer Disease, Gastroenterology, Seminars of Nuclear Medicine, Journal of the American Society of Nuclear Medicine

## Invited Lectures: 1990- present

Mayo Clinic, John Hopkins University, University of Iowa, Université of Colorado, Mont Sinaii Medical Center, Cleveland Clinic, Université of Liège, University of Ottawa, Fels Institute for Cancer Research, Johnson & Johnson, Glaxo Smith Kline, Mallinckrodt, Bracco, Health Canada, Canadian Association of Radiology, International Atomic Energy Agency, Colorectal Cancer Association, CNETS Canada, NC Nuc. Med. Technologists Fall Meeting,

NM Residency Director:

 Residency Training Program Director 2007-2010

 University of Western Ontario, London, ON

Editorial Activities:

 Co-Editor, Pangea-ePatient NM magazine 2016-present

**RESEARCH ACTIVITIES**

Clinical Studies:

 As Principal Investigator (10 protocols)

 As Co-investigator/Consultant (20 protocols)

Basic Sciences:

 As Principal Investigator (3 protocols)

 As co-Principal Investigator/consultant (3 protocols)

Funding

 As Principal Investigator: $300,000, GE Health System

 Role of MPS & CCTA in the assessment of CAD

 As co-Principal Investigator: $26,000,000, CIHR

 Hybrid Imaging Program, UWO

**COMMITTEES ACTIVITY**

University

 Medical School Telecommunication Interest Group

 Temple University 1995

 Medical Student Admission 2003

 University of Western Ontario

 Molecular Imaging task force 2005-present

 University of Western Ontario

 Chief/Chair of Cardiology selection committee 2006-2007

 University of Western Ontario

 Chief/Chair of Radiology selection committee 2008

 University of Western Ontario

Hospital

 Chair, PET/cyclotron task force 1990-1993

 CHGH University Affiliated Hospital

 PET task force 1993-1994

 Temple University Hospital

 Radiation Safety Committee 1999-2001

 Fox Chase Cancer Center

 Research Review Committee 1999-2001

 Fox Chase Cancer Center

 PET task force 1999-2001

 Fox Chase Cancer Center

 Chair, Cyclotron task force 2001-2003

 Cleveland Clinic Foundation

 Cyclotron task force 2003-2005

 Lawson Research Institute, London, ON

 Chair, Clinical Hybrid Imaging task force 2003-2006

 London Health Sciences Center, ON

 Adverse events policy task force 2004-2005

 St Joseph Health Center, London, ON

 Adverse events disclosure policy task force 2005-2008

 St Joseph Health Center, London, ON

 Medical Advisory Executive Committee 2006-2008

 London Hospitals, London, ON

 Medical Executive Committee 2011-2018

 Chair, Radiation & MR Safety Committee

 Chair, Bylaws Committee

 Deputy Associate Chief of Staff

 President, Medical Staff

 VA Medical Center, Lebanon, PA

 Wake Forest University Health Science 09/01/2019-

 Wake Forest Baptist Medical Center

 Chair Radiation Safety Committee

 Chair Radioactive Drug Research Committee

Departmental

 Quality Assurance

 Temple University Hospital 1993-1999

 Quality Assurance 1999-2001

 Fox Chase Cancer Center

 Chair, Finances Committee 2004-2008

 Department of Radiology/Nuclear Medicine, UWO

Regional

 Chairman, Bylaws Committee, SNM,

 Greater New-York Chapter, 1994-1999

 President, SNMMI 2010-2012

 Easter Great lake Chapter

National/International

 Chair, PET Council CANM 2004-2006

 Vice President, CANM 2004-2006

 Chair, CT standard guidelines task force, CANM 2005-2006

 President, Canadian Association of Nuclear Medicine 2006-2011

 Director, Federation of National Specialties 2006-2011

 Co-Chair, Waiting Time Alliance, CMA 2007-2011

 Expert Consultant, Health Canada 2007-present

 Chair Scientific Committee, CANM 2011-present

 Director & Vice President, CNETS 2007-present

 Executive, Quality Initiative, CMA 2014-2016

 Chair, SNMMI Global Initiative Committee on Theranostics 2018-

 President Elect, World Federation, NM&B 2019-2020

**LICENSURE**

 Pennsylvania, USA
 LT-000199-L 1992-1994

 MD-052894-L 1994-present

Ohio 2001-present

 35-079911

 New-York 2003-present

 227633-1

 Ontario

 80002 2003-present

 North Carolina 2018-present

 233191

**BOARD CERTIFICATION**

 Medicine

 Nuclear Medicine/CCTA

 ECFMG

 Academic Fellow Royal College of Physician of Canada

**AWARD**

 GE Radiant fund 2006

 Homi Jehangir Bhabba Award 2007

**NATIONAL & INTERNATIONAL MEETINGS PARTICIPATION**

Administrative/Scientific activities (>750 meetings/congresses/symposiums)

Oral Presentations at national and international venues (>1000 lectures)

**PROFESSIONAL ORGANIZATIONS**

 Society of Nuclear Medicine (SNM) 1984-present

 European Association of Nuclear Medicine (ESNM) 1986-present

 New-York Academy of Sciences (NYAS) 1992-2000

 American Association for the Advancement of Science (AAAS)1993-2009

 American Society of Nuclear Cardiology (ASNC) 1994-present

 American Society of Clinical Oncology (ASCO) 1999-2011

 Institute for Clinical PET 1999-2001

 Academy for Molecular Imaging (AMI) 2001-2009

 Radiological Society of North America (RSNA) 2000-present

 American Society Therapy & Radiation Oncology (ASTRO) 2001-2005

 American Heart Association (AHA) 2001-present

 American College of Physicians Executive (ACPE) 2003-present

 Canadian Association of Nuclear Medicine (CANM) 2003-present

 Personalized Medicine Coalition (PMC) 2011-present

PUBLICATIONS

Peer-Reviewed Articles

Impaired gastric emptying in diabetic patients with cardiac autonomic neuropathy.M

Buysschaert, M Moulart, JL Urbain, S Pauwels,L. De Roy, JM Ketelslegers, and AE Lambert.

Diabetes Care 10:448-452, 1987.

The biphasic nature of gastric emptying. JA Siegel, JL Urbain, AH Maurer, B Krevsky, NDCharkes, LC Knight, RS Fisher, LS Malmud. Gut 29:85-89, 1988.

Effect of Cisapride on gastric emptying in dyspeptic patients. JL Urbain, JA Siegel, NC

Debie, S Pauwels. Digestive Disease and Sciences 33:779-783, 1988.

The two-component stomach: effect of meal particle size on fundal and antral emptying.

JL Urbain, JA Siegel, ND Charkes, AH Maurer, RS Fisher, LS Malmud. Eur J. Nucl. Med.

15:254-259, 1989.

Effect of solid meal caloric content on gastric emptying kinetics of solids and liquids.

JL Urbain, JA Siegel, L Mortelmans, E Van Cutsem, V Van Den Maegdenberg, M De Roo.

Nuklear Medizin 28:120-123, 1989.

Assessment of the effect ot rt-PA on ventricular function and on infarct size by

scintigraphic and enzymatic methods. L Mortelmans, J. Vanhaeke, E. Lesaffre, J.L Urbain,

G. Willems, M. De Roo, H. De Geest, F. Van de Werf. Trends and Possibilities in Nuclear

Medicine.H Smidt and G. Buragge, Eds Schattauer Stuttgart. New-York 182-185, 1989.

Scintigrafische evaluatie van de maaglediging van een vloeibaar proteinerijk tussendoortje.

JL Urbain, V Van den Maegdenbergh, M De Roo. Tijdschrift voor voeding en Dietetiek.6: 7-10, 1989.

Abolition of gastric emptying discrimination between solids and liquids after intravenous

erythromycin. JL Urbain, L Mortelmans, V Van den maegdenbergh,J Janssens, G

Vantrappen, M De Roo. Trends and Possibilities in Nuclear Medicine. Quantitative

Analysis in Imaging and Function Eds Schattauer Stuttgart. New-York 400-402, 1990.

Improvement of gastric emptying in diabetes gastroparesis by Erythromycin: preliminary

studies. J Janssens, TL Peeters, G Vantrappen, J Tack, JL Urbain, M De Roo, E Muls, R

Bouillon. New England Journal of Medicine 15: 1028-1031, 1990.

Effect of solids caloric content on dual phase gastric emptying. V Van den maegdenbergh,

JL Urbain, JA Siegel, L Mortelmans, M De Roo.J. Nucl. Med. Tech.nology 18: 31-33, 1990.

Xamoterol in severe heart failure. The Xamoterol in severe heart failure study group. The

Lancet 336: 1-6, 1990

IV Erythomycin dramatically accelerates Gastric Emptying in Gastroparesis Diabeticorum

and normals and abolishes the emptying Discrimination between Solids and Liquids.

JL Urbain, E Van cutsem, J.Janssens, G. Vantrappen, M. De Roo.J.Nuc. Med.31: 1490-

1493, 1990.

Effect of proximal vagotomy and Roux-en-Y diversion on gastric emptying kinetics in

asymptomatic patients. JL Urbain, F Penninckx, J.A. Siegel, Ph Vandenborre, E Van

Cutsem, V Vandenmaegdenbergh, M De Roo. Clinical Nuclear Medicine 15:688-691,1990.

Post thrombolytic evaluation of infarct size and ventricular function by enzymatic,

scintigraphic and angiographic methods. L Mortelmans, J Vanhaecke, E Lesaffre, AER Arnold, JL Urbain , G Willems, M De Roo, H De Geest, F Van de Werf. Am Heart J 119: 1231-1237,1990

Visualisation and characterization of gastric contractions using the isotopic technique.

JL Urbain, E Van Cutsem, JA Siegel, S Mayeur, A Vandecruys, J Janssens, M De Roo, G Vantrappen. Am. J. Physiol 259: G1062-G1067, 1990.

Evaluation scintigraphique de la vidange gastrique d’une collation liquide hyperprotéinée.

JL Urbain, V Van den Maegdenbergh, M De Roo. Revue Belge de diététique 1990, 16; 17-23.

Visualisation of the Gastric Mechanical Systole using a new Scintigraphic Technique V Van den Maegdenbergh, A Vandecruys, JA Siegel, M De Roo, JL Urbain. J. Nucl. Med. Tech.18:248-251, 1990

Effect of Motilin on gastric emptying in patients with diabetic gastroparesis. TL Peeters, E Muls, J Janssens, JL Urbain,E Vancutsem, I Deportere, R Bouillon, M De Roo, G Vantrappen. Gastroenterology 102:97-101, 1992

Characterization of gastric antral motility disturbancies in diabetes using the scintigraphic technique. JL Urbain, MC Vekemans, R Bouillon, J Van Cauteren, M Bex, SM Mayeur, V Van den Maegdenberg, G Bataille, ND Charkes, LS Malmud, M De Roo. J. Nucl. Med.34:576-581, 1993.

Characterization of gastric antral motility in functional dyspepsia using digital antral scintigraphy. JL Urbain, MC Vekemans, H. Parkman, J Van Cauteren, SM Mayeur, V Van den Maegdenberg, ND Charkes, RS Fisher, LS Malmud, M De Roo.J. Nucl. Med.36: 1579-1586, 1995

Gastroduodenal Motility and Dysmotility: An Update on Techniques Available for Evaluation. HP Parkman, AD Harris, JL Urbain, AH Maurer, RS Fisher. American Journal of Gastroenterology. 90: 869-892, 1995.

Scintigraphic imaging of oncogenes with antisense probes: does it make sense? JL Urbain, S Shore, MC Vekemans, Sc Cossenza, K DeRiel, GV Patel, ND Charkes, LS Malmud, EP Reddy.European Journal of Nuclear Medicine. 22: 499-504, 1995.

Recent advances in gastric emptying scintigraphy. JL Urbain, N.D. Charkes. Seminars of

Nuclear Medicine. 4: 318-325, 1995.

Récents developements en scintigraphie gastrique.JL Urbain, S. Mayeur. Médecine

Nucléaire 20: 182-188, 1996.

Evidence for a circadian rhythm of insulin secretion.G Boden, J Ruiz , JL Urbain, X Chen.

Am. J. Physiol.271:E246-E252, 1996.

Evidence for a Circadian Rhythm of Insulin Sensitivity in Patients with NIDDM caused by

Cyclic Changes in Hepatic Glucose Production. G Boden, X Chen , JL Urbain. Diabetes 45: 1044-1050, 1996.

Regional Differences in gastric acidity and antacid distribution in the stomach: inaccuracy of measurements with single pH electrode. RS Fisher, DJ Sher, D Donahue, LC Knight, AH Maurer, JL Urbain, B Krevsky. Am. J. Gast. 92:263-270, 1997.

Electrogastrography and gastric emptying are complementary for assessment of dyspepsia. HP Parkman, MA Miller, D Trate, LC Knight, JL Urbain, AH Maurer, RS Fisher. J. Clin. Gastroenterology 24:214-219, 1997.

Comparison of Scintigraphy and Lactulose Breath Hydrogen Test for Assessment of Orocecal Transit. MA Miller, HP Parkman, JLC Urbain, KL Brown, DJ Donahue, LC Knight, AH Maurer, RS Fisher. Dig. Dis. Sc. 42: 10-18, 1997.

Nuclear Oncology and the Imagene Concept. JL Urbain, MC Vekemans, SK Lemieux, SC Cosenza, VK Senadhi, BN Milestone, EP Reddy. Acta Radiologica 38, suppl 412:21-28, 1997.

Effect of gastric acid suppressants on human gastric motility.HP Parkman, JL Urbain, LC Knight, KL Brown, DM Trate, MA Miller,AH Maurer, RS Fisher. Gut 42:243-250, 1998

Effects of in vitro versus in vivo red cell labeling on image quality in gastrointestinal bleeding studies AH Maurer, JL Urbain, B Krevsky, LC Knight, G Revesz, K Brown. J. Nucl. Med. Tech. 26:87-90, 1998

Oncogenes, Cancer and Imaging.JL Urbain. J. Nucl. Med. 40:499-504, 1999

Procedure guideline for gastric emptying and motility. KJ Donohoe, AH Maurer, HA Ziessman, JL Urbain, Royal HD. J. Nucl. Med. 40: 1236-1239, 1999

Quantitation of Regional Ventilation during the Washout Phase of Lung Scintigraphy in patients Before and after Bilateral LVRS. JM Travaline,JL Urbain,AH Maurer,ND Charkes, S Furukawa,GJ Criner. Chest 118: 721-727, 2000.

SPECT/PET ASSAYS for Tissue Oxygenation. JD Chapman, RF Schneider, JL Urbain, GE Hanks. Seminars in Radiation Oncology. 47-57, 2001.

Reporter Gene and Imagene. JL Urbain. J. Nucl. Med. 42:106-109, 2001

Defining a future Role for radiogenic Therapy. J Kaminsky, C Yang, JL Urbain, AP Dicker, DB Chism, B Peng, B Mosvas. Cancer Treat Rev. 2001 27(5):289-94.

Sense, Antisense and Common Sense. JL Urbain. J. Nucl. Med. 42: 1670-1672, 2001.

18F-FDG Positron Emission Tomography in the Evaluation of Distant Metastases from Renal Cell Carcinoma . NS Majhail, JL Urbain, JM Albani , MH Kanvinde MH, TW Rice, AC Novick, TM Mekhail, TE Olencki, P Elson, RM Bukowski . J Clin Oncol. 21:3995-4000, 2003.

Risk Factors related to delayed graft function after laparoscopic live donor nephrectomy (LDN) SC Abreu , DA Goldfarb, I Derweesh, J Thornton, JL Urbain, E Mascha , AP Steinberg, JH Kaouk , S Flechner, C Modlin, V Krishnamurthi , Ac Novick , IS Gill J Urol 171:61-62, 2004 .

Breast cancer screening, diagnostic accuracy and health care policies.. JL Urbain
CMAJ 172(2):210-1, 2005

Thyroid-stimulating hormone-stimulated fused positron emission tomography/computed tomography (PET/CT) in the evaluation of recurrence in 131I-negative papillary thyroid carcinoma. Saab G, Driedger AA, Pavlosky W, McDonald T, Wong CY, Yoo J, Urbain JL.

Thyroid. 2006 Mar;16(3):267-72

The Role of Nuclear Medicine & PET in the Management of Cutaneous Malignant Melanoma.
T Belhocine, AM Scott, E Even-Sapir, JL Urbain, R Essner Nucl Med. 2006 Jun;47(6):957-67. Review.

Detection of (99m)Tc-sestamibi uptake in brown adipose tissue with SPECT-CT. Belhocine T, Shastry A, Driedger A, Urbain JL. Eur J Nucl Med Mol Imaging. 2007 Jan;34(1):149. Epub 2006

Cervical Cancer and Nuclear Medicine: From Bench to Bedsite. T Belhocine, JL Urbain, TC Yen, PW Grisby. Current Research on Cancer 2007, 1: 123-144.

Complementary roles of low-dose SPECT-CT and high-resolution volume CT for detection of coronary artery disease. Akincioglu C, Belhocine T, Gambhir S, Romsa J, Chouraiki G, Kribs S, Elliot JA, Vezina W, Urbain JL. Clin Nucl Med. 2008 Apr; 33(4):285-7.

[Procedure guideline for adult solid-meal gastric-emptying study 3.0.](http://www.ncbi.nlm.nih.gov/pubmed/19692450) Donohoe KJ, Maurer AH, Ziessman HA, **Urbain JL**, Royal HD, Martin-Comin J; Society for Nuclear Medicine; American Neurogastroenterology and Motility Society.J Nucl Med Technol. 2009;37(3):196-200.

[Intensity modulated radiotherapy of non-small-cell lung cancer incorporating SPECT ventilation imaging.](http://www.ncbi.nlm.nih.gov/pubmed/20443508) Munawar I, Yaremko BP, Craig J, Oliver M, Gaede S, Rodrigues G, Yu E, Reid RH, Leung E, **Urbain JL**, Chen J, Wong E. Med Phys. 2010 Apr;37(4):1863-72.

SPECT/CT imaging of the lumbar spine in chronic low back pain: a case report

Michael H Carstensen\*, Mashael Al-Harbi, Jean-Luc Urbain, Tarik-Zine Belhocine Chiropractic & Manual Therapies 2011, 19:2

Added-value of SPECT/CT to lymphatic mapping and sentinel lymphadenectomy in gynaecological cancers. Tarik Z Belhocine; Michel Prefontaine; Dominique Lanvin; Monique Bertrand; Irina Rachinsky; Helen Ettler; Pamela Zabel; Larry W Stitt; Akira Sugimoto; Jean-Luc Urbain. Am J Nucl Med Mol Imaging 3, 182 (2013)

Clinical utility of FDG PET/CT in the staging of patients with potentially curable esophageal carcinoma. John J. You, MD, MSc,Rebecca K.S. Wong, Gail Darling, Karen Gulenchyn, Jean-Luc Urbain, and William K. Evans. *J Thorac Oncol.* 2013;8: 1563–1569

Very high coronary artery calcium score with normal myocardial perfusion SPECT imaging is associated with a moderate incidence of severe coronary artery disease. [Salem A. Yuoness](http://www.ncbi.nlm.nih.gov/pubmed/?term=Yuoness%20SA%5BAuthor%5D&cauthor=true&cauthor_uid=26138459), [Ahmed M. Goha](http://www.ncbi.nlm.nih.gov/pubmed/?term=Goha%20AM%5BAuthor%5D&cauthor=true&cauthor_uid=26138459), [Jonathan G. Romsa](http://www.ncbi.nlm.nih.gov/pubmed/?term=Romsa%20JG%5BAuthor%5D&cauthor=true&cauthor_uid=26138459), [Cigdem Akincioglu](http://www.ncbi.nlm.nih.gov/pubmed/?term=Akincioglu%20C%5BAuthor%5D&cauthor=true&cauthor_uid=26138459), [James C. Warrington](http://www.ncbi.nlm.nih.gov/pubmed/?term=Warrington%20JC%5BAuthor%5D&cauthor=true&cauthor_uid=26138459), [Sudip Datta](http://www.ncbi.nlm.nih.gov/pubmed/?term=Datta%20S%5BAuthor%5D&cauthor=true&cauthor_uid=26138459), [David R. Massel](http://www.ncbi.nlm.nih.gov/pubmed/?term=Massel%20DR%5BAuthor%5D&cauthor=true&cauthor_uid=26138459), [Rafael Martell](http://www.ncbi.nlm.nih.gov/pubmed/?term=Martell%20R%5BAuthor%5D&cauthor=true&cauthor_uid=26138459), [Sanjay Gambhir](http://www.ncbi.nlm.nih.gov/pubmed/?term=Gambhir%20S%5BAuthor%5D&cauthor=true&cauthor_uid=26138459), [Jean-Luc C. Urbain](http://www.ncbi.nlm.nih.gov/pubmed/?term=Urbain%20JL%5BAuthor%5D&cauthor=true&cauthor_uid=26138459), and [William C. Vezina](http://www.ncbi.nlm.nih.gov/pubmed/?term=Vezina%20WC%5BAuthor%5D&cauthor=true&cauthor_uid=26138459). Eur J Nucl Med Mol Imaging. 2015; 42(10): 1542–1550.

[Coagulation Factor and Theranostics: A New Paradigm in Molecular Imaging.](http://www.ncbi.nlm.nih.gov/pubmed/26405168) JLUrbain

J Nucl Med. 2016; 57(1):7-8.

The MPS/CCTA one stop shop for the assessment of coronary artery diseases (in preparation).

PET attenuation correction maps derived from MRI for PET/MR clinical applications (in preparation)

### Other Articles

### Advance in radio-imaging of neuro-endocrine tumors. MC Vekemans, JL Urbain, ND Charkes. Current Opinion in Oncology 1995, 7: 63-67.

### Advances in thyroid cancer imaging. M.C. Vekemans, JL Urbain, N.D. Charkes. New perspectives in cancer diagnosis and management 1997, 4:58-67.

Usefulness of White Cell Scintigraphy. JL Urbain. Le Patient 2015 (www.lepatient.ca)

The use of PET in Nuclear Medicine in Canada. JL Urbain, JN Talbot. Le Patient 2015

The 7 billion Educational Pangea. JL Urbain. Le Patient 2016

Theranostics: Nuclear Medicine at its best. JL Urbain. Le Patient 2017

Theranostics Series: The merging of drug therapy and diagnostics, Pangea-ePatient 2018

Books, Monographs, Chapters

The Esophagus.

JL Urbain, MC Vekemans.

in Principles of Nuclear Medicine 2nd Edition, 1995,

The Gastrointestinal system, 908-915

Editor: Henry N Wagner

Saunders Publishing, Philadelphia.

Gastric Emptying Disorders.
JL Urbain, AH Maurer.

in Principles of Nuclear Medicine 2nd Edition, 1995,

The Gastrointestinal system, 916-928

Editor: Henry N Wagner

Saunders Publishing, Philadelphia.

Scintigraphic Evaluation of Esophageal Transit, Gastroesophageal Reflux,

and Gastric Emptying.

JL Urbain, MC Vekemans, LS Malmud

in Diagnostic Nuclear Medicine, 3rd Edition, 1995

Section VII, 733-748.

Editor: MP Sandler et al

Williams and Wilkins, Philadelphia

Esophageal Transit, Gastroesophageal Reflux and Gastric Emptying.

JL Urbain, MC Vekemans, LS Malmud

in Nuclear Medicine: Principles and Practices 1995; p 948-965.

Editor: Robert Henkin

Mosby Year Book

Small Bowel and colon transit studies.

AH Maurer, JL Urbain
in Diagnostic Radiology, 3rd Edition; 1997; p1047-1052

Editors: Grainger and Allison

Churchill Livingstone

The Esophagus.

JL Urbain, MC Vekemans,H Parkman, LS Malmud

in Diagnostic Radiology, 3rd Edition; 1997; p 935-937

Editors: Grainger and Allison

Churchill Livingstone

Nuclear Oncology

JL Urbain, MC Vekemans, LS Malmud

in Diagnostic Radiology, 3rd Edition; 1997; p 2611-2619

Editors: Grainger and Allison

Churchill Livingstone

Radionuclide Imaging: General Principles.

AH Maurer, JL Urbain, Peters, Harcke, Miller

in Diagnostic Radiology, 3rd Edition, 1997; p 935-937

Editors: Grainger and Allison

Churchill Livingstone

The Stomach.

JL Urbain, H Parkman, MC Vekemans, LS Malmud

in Diagnostic Radiology, 3rd Edition; 1997; p 966-971

Editors: Grainger and Allison

Churchill Livingstone

The Liver.

JL Urbain, MC Vekemans, S. Mayeur, LS Malmud

in Diagnostic Radiology, 3rd Edition; 1997; p 1155-1199

Editors: Grainger and Allison

Churchill Livingstone

Molecular Biology in Nuclear Oncology.

JL Moretti, C Archer, JL Urbain

in Nuclear Medicine in Diagnosis and treatment, 2nd Edition; 1998; pp 893-910

Editors: Murray and Ell

Churchill Livingstone

Gastrointestinal Nuclear Medicine

JL Urbain, CL Jhonson, MC Vekemans

Diagnostic Nuclear Medicine, 2000; pp 123-134

Editor: Baert, Heuck and Youker,

Springer Verlag

Molecular Biology and Nuclear Oncology: the concept of Imagene

JL Urbain

in Nuclear Medicine in Diagnosis and treatment, 2nd Edition; 2004; pp 893-910

Editors: Gambhir and Ell

Churchill Livingstone

Molecular Imaging of Gastrointestinal Diseases (in press)

JL Urbain, CC Urbain, EP Reddy, LS Malmud

In Molecular Nuclear Medicine

Editor: Shreeve & Wagner

Springer Verlag

Scintigraphic Evaluation of Esophageal Transit and Gastric Emptying.

JL Urbain, MC Vekemans, LS Malmud

in Diagnostic Nuclear Medicine, 4rd Edition, in press

Editor: MP Sandler et al

Williams and Wilkins, Philadelphia

Esophageal Transit, Gastroesophageal Reflux and Gastric Emptying.

JL Urbain, MC Vekemans, LS Malmud

in Nuclear Medicine: Principles and Practices; in press.

Editor: Robert Henkin

Elsevier

CARDIAC SPECT/CT-CCTA textbook (in preparation)

Editor: Jean-Luc Urbain, Cigdem Akincioglu

Springer Verlag

AUDIOVISUAL TEACHING AIDS

Scintigraphic techniques and dyspepsia. JL Urbain, LS Malmud. Janssen Pharmaceutica 1991

Breast and Melanoma Lympho-scintigraphy CME Course Slides JL Urbain, Fox Chase Cancer Center 1999