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New approaches for imaging bacteria and neutrophils for detection of occult infections

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Chapter 10

Curriculum vitae

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Education

Present: Ph.D. student in nuclear medicine at the University Medical Centre Groningen (UMCG), Groningen, The Netherlands. In affiliation with the Nuclear Medicine Unit, Faculty of Medicine and Psychology, Department of Medical-Surgical Sciences and of Translational Medicine, University “Sapienza” of Rome.

January 2017: Master degree in “Medical, cellular and molecular biotechnologies”, 110 cum Laude, Faculty of Medicine and Pharmacy, University “Sapienza” of Rome.

December 2014: Bachelor in “Biotechnology”, 110 cum Laude, Faculty of Medicine, University of L’Aquila.

Research experience

Present: Ph.D. student in nuclear medicine at the Nuclear Medicine Unit, University “Sapienza” of Rome, Italy. Involvement in basic and pre-clinical research on radiolabelling of monoclonal antibodies, peptides, antibiotics for molecular imaging of infectious and inflammatory diseases and cancer.

May 2015- in course: Participation to the research project “Imaging gastrointestinal inflammation in animal models of inflammatory bowel disease” and other projects.

May 2015- January 2017: Internship student at Nuclear Medicine Lab – Prof. A. Signore - University “Sapienza” of Rome, S. Andrea Hospital. The main focus of the research is the development of new radiopharmaceuticals for infection and inflammation, tumor microenvironment and in vivo small animal molecular imaging.

Publications

1. Varani M, Auletta S, Signore A, Galli F. State of the Art of Natural Killer Cell Imaging: A Systematic Review. *Cancers* 2019; 11.
2. Signore A, Lauri C, Auletta S, Anzola K, Galli F, Casali M, Versari A, Glaudemans AWJM. Immuno-imaging to predict treatment response in infection, inflammation and oncology. *J Clin Med* 2019; 8; 681; doi:10.3390/jcm8050681.
3. Auletta S, Riolo D, Varani M, Lauri C, Galli F, Signore A. Labelling and clinical performance of human leukocytes labelled with ^{99m}Tc-HMPAO using Leukokit® with Gelofusine versus Leukokit® with HES as sedimentation agent. *Contrast Media Mol Imaging* 2019; doi: 10.1155/2019/4368342.
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5. Auletta S, Iodice V, Galli F, Lepareur N, Devillers A, Signore A. Study of binding kinetics and specificity of ^{99m}Tc-SSS-complex and ^{99m}Tc- HMPAO to blood cells. *Contrast Media Mol Imaging* 2018; Article ID 560390;doi:10.1155/2018/5603902.
6. Varani M, Galli F, Auletta S, Signore A. Radiolabelled nanoparticles for cancer diagnosis. *Clin Transl Imaging* 2018; 6: 271-292.
7. Signore A, Anzola KL, Auletta S, Varani M, Petitti A, Pacilio M, Galli F, Lauri C. Current status of molecular imaging in inflammatory disorders. *Curr Pharm Design* 2018; 24: 1-11.
8. Catalano O, Maccioni F, Lauri C, Auletta S, Signore A. Hybrid imaging in Crohn's disease: from SPECT/CT to PET/MR and new image interpretation criteria. *Q J Nucl Med Mol Imaging*. 2018; 62: 40-55.
9. Auletta S, Bonfiglio R, Wunder A, Varani M, Galli F, Borri F, Scimeca M, Niessen HG, Schönberg T, Bonanno E. Animal models for the study of inflammatory bowel diseases: a meta-analysis on modalities for imaging inflammatory lesions. *Q J Nucl Med Mol Imaging* 2018; 62: 78-100.
10. Auletta S, Baldoni D, Varani M, Galli F, Hajar IA, Duatti A, Ferro-Flores G, Trampuz A, Signore A. Comparison of ^{99m}Tc-UBI 29-41, ^{99m}Tc-ciprofloxacin, ^{99m}Tc-ciprofloxacin dithiocarbamate and ¹¹¹In-biotin for targeting experimental *Staphylococcus aureus* and *Escherichia coli* foreign-body infections: an ex-vivo study. *Q J Nucl Med Mol Imaging* 2019; 63: 37-47.
11. Lauri C, Auletta S, Carideo L, Valabrega S, Pacilio M, Signore A, Galli F. Immunoscintigraphy for Therapy Decision Making and Follow-Up of Biological Therapies. *Intern J of Nucl Med Res* 2016; 3: 63-70.
12. Signore A, Galli F, Auletta S, Briganti E, Lauri C. Molecular imaging of cancer microenvironment. *Nucleus* 2016; 60: 18-2.
13. Auletta S, Galli F, Lauri C, Martinelli D, Santino I, Signore A. Imaging bacteria with radiolabelled quinolones, cephalosporins and siderophores for imaging infection: a systematic review. *Clin Transl Imaging* 2016; 4: 229-252.