



# Dr. med. Antoine Leimgruber

Spécialiste FMH en Médecine Nucléaire  
Spécialiste FMH en Radiologie  
Physicien EPFL

## Sprachen

FR,EN,ES

## Berufserfahrung

seit 2021	Director of Development Swiss Medical Network, Nuclear Medicine
seit 2021	
seit 2019	Co-Founder, Biopsomic SA
2015–2021	Head of Nuclear Medicine and Oncology (Hopital Riviera-Chablais)
2007–2014	Fellowships, Lausanne University Hospital, Peter MacCallum Cancer Centre, Austin Health, Center for Molecular Imaging Research & Center for Systems Biology, Harvard Medical School
2001–2006	Research Associate, Molecular Modelling Group, Swiss Institute of Bioinformatics and Ludwig Institute Lausanne
2000	Project Engineer, Picture Archiving and Communication System, Service of Radiology, Lausanne University Hospital
1998–1999	Financial mathematics consultant, Time-Steps Ltd, Zurich

## Ausbildung

2007–2015	Specialist training: <ul style="list-style-type: none"><li>• Hybrid imaging fellow, Department of Cancer Imaging, Peter MacCallum Cancer Centre (Prof Hicks, Melbourne)</li><li>• Nuclear Medicine Registrar, Service of Nuclear Medicine &amp; Ludwig Institute (Prof Rowe and Scott, Melbourne Australia)</li><li>• Fellow, Service of Nuclear Medicine, Lausanne University Hospital (Prof Prior, Switzerland)</li><li>• Resident, Service of Radiology, Lausanne University Hospital (Prof Schnyder, Meuli, Switzerland)</li><li>• Postdoctoral Fellow, Center for Molecular Imaging Research &amp; Center for Systems Biology (Prof Pittet &amp; Weissleder, Harvard Medical School, USA)</li></ul>
2000–2007	Non-specialist training: <ul style="list-style-type: none"><li>• Lausanne University Hospital</li><li>• Massachusetts General Hospital (Boston USA)</li><li>• Oncology Institute of Oriental Bolivia (Santa Cruz Bolivia)</li><li>• Ambulatorio Dr David Espinoza Rojas (Nueva Esparta, Venezuela)</li></ul>

## Mitgliedschaften

- Fédération des médecins suisses (FMH)
- Société vaudoise de médecine (SVM)

- Société suisse de médecine nucléaire (SSMN)
- Société Suisse de radiologie (SSR) European Neuroendocrine Tumor Society
- Australian and New Zealand Society of Nuclear Medicine (ANZSNM)
- Radiological Society of North America (RSNA)
- European Neuroendocrine Tumor Society (ENETS)
- Vaud State Academic Society

## Publikationen

Lobb RJ, van Amerongen R, Wen Wen S, Wong CSF, Wiegmans AP, Hstie M, Norris E, Siva S, Everitt S, Fong K, Gorman J, **Leimgruber A** and Möller A, *An epithelial-to-mesenchymal transition induced multi-protein exosome signature prognosticates patient outcome in non-small cell lung cancer*, in prep.

Gatta R, Depeursinge A, Ratib O, Michielin O, **Leimgruber A**, *Integrating radiomics into holomics for personalised oncology: from algorithms to bedside*, European Radiology Exp, 2020 Feb 07;4(11) - ~10 citations

**Leimgruber A**, Hickson K, Lee ST, Gan HK, Cher LM, Sachinidis JLO, O'Keefe GJ, Scott AM, *Spatial and quantitative mapping of glycolysis and hypoxia in glioblastoma as a predictor of radiotherapy response and sites of relapse*, EJNMMI, 2020 Feb 5;47(1476-1485) - ~10 citations

Wen Wen S, Everitt SJ, Bedö J, Chabrot M, Ball DL, Solomon B, MacManus M, Hicks RJ, Möller A and **Leimgruber A**, *Spleen volume variation in patients with locally advanced non-small cell lung cancer receiving platinum-based chemo-radiotherapy*, PLoS One. 2015 Nov 24;10(11) - ~15 citations

Lobb RJ, Becker M, Wen Wen S, Wong CSF, Wiegmans AP, **Leimgruber A**, Möller A, *Optimized Exosome Isolation Protocol for Cell Culture Supernatant and Human Plasma*, J Extracell Vesicles. 2015 Jul 17;4 - ~800+ citations

**Leimgruber A**, Möller A, Everitt S, Chabrot M, Ball D, Solomon B, MacManus M and Hicks R, *Effect of platinum-based chemoradiotherapy on cellular proliferation in bone marrow and spleen, estimated by FLT-PET/CT in patients with locally advanced non-small cell lung cancer*, J Nucl Med. 2014 May 27;55(7) - ~30 citations & Alavi-Mandell award

**Leimgruber A**, Ferber M, Irving M, Hussain-Kahn H, Wieckowski S, Rufer N, Zoete V and Michielin O, *TCRep 3D: an automated in silico approach to study the structural properties of TCR repertoires*, PloS One. 2011;6(10) - ~20 citations

Gambarota G, Perazzolo C, **Leimgruber A**, Meuli R, Mangin P, Augsburg M and Grabherr S, *Non-invasive detection of dissolved cocaine in wine bottles by magnetic resonance spectroscopy*, Drug Test Anal. 2010 Sep 30.

**Leimgruber A**, Berger C, Cortez-Retamozo V, Etzrodt M, Newton A, Waterman P, Figueiredo J, Kohler R, Elpek N, Mempel T, Swirski F, Nahrendorf M, Weissleder R and Pittet M, *Behavior of endogenous tumor-associated macrophages assessed in vivo using a functionalized nanoparticle*, Neoplasia. 2009 May; 11(5) - ~100 citations & journal cover

Derré L, Bruyninx M, Baumgaertner P, Ferber M, Schmid D, **Leimgruber A**, Zoete V, Romero P, Michielin O, Speiser D and Rufer N, *Structurally distinct TCRs confer similar recognition of the tumor-specific epitope NY-ESO-1157-165 by interacting with its central Met/Trp residues*, Proc Natl Acad Sci U S A. 2008 Sep 30;105(39) - ~40 citations

Derré L, Ferber M, Touvrey C, Devevre E, Zoete V, **Leimgruber A**, Romero P, Michielin O, Lévy F and Speiser D, *A novel population of human melanoma-specific CD8 T cells recognizes Melan-AMART-1 immunodominant nonapeptide but not the corresponding decapeptide*, J Immunol, 2007 Dec 1;179(11) - ~30 citations

**Leimgruber A**, Ostermann S, Yeon EJ, Buff E, Maeder P, Stupp R and Meuli R, *Perfusion and diffusion MRI of glioblastoma progression in a four-year prospective temozolomide clinical trial*, Int J Radiat Oncol Biol Phys, 2006 Mar 1;64(3) - ~40 citations

## Akkreditierung

[Clinique de Genolier](#)

## Fachgebiete

[Nuklearmedizin](#)

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## Kontakt

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