

Elections to EACVI Board and Sections 2016-2018

Application for the position:

**Nucleus Member
for the
Nuclear Cardiology & Cardiac CT
section**



1. Your Identity

| | |
|--------------------------------|---------------------------------------|
| Title: | PD Dr. med. |
| Family Name(s): | Büchel |
| First Name(s): | Ronny Ralf |
| Birth Date: | March 7th 1980 |
| Type of address: | Business |
| Institute/Organisation: | University Hospital Zürich |
| Department: | Department of Nuclear Medicine |
| Address: | C NUK 43 Rämistrasse 100 |
| Post Code/Zip: | 8091 |
| City: | Zürich |
| Country: | Switzerland |

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2. General Curriculum Vitae (300 words max)

Education and Training

| | |
|-------------|---|
| 1999 | Matura type B, Kantonsschule Olten, Switzerland |
| 2000 - 2006 | Medical School, University of Basel, Switzerland |
| 2006 | State Examination (M.D.), University of Basel, Switzerland |
| 2008 | Thesis (Dr. med.) Faculty of Medicine, University of Basel, Switzerland |
| 2007 - 2008 | Resident Internal Medicine, Kantonsspital Aarau, Switzerland |
| 2009 | Resident Nuclear Medicine, University Hospital Zurich, Switzerland |
| 2010 - 2012 | Resident Cardiology, University Hospital Basel, Switzerland |
| 2013 - 2014 | Good Clinical Practice diploma I-III |
| 2013 - 2015 | Resident Nuclear Medicine, University Hospital Zurich, Switzerland |
| since 2015 | Consultant Cardiac Imaging, University Hospital Zurich, Switzerland |
| 2015 | Venia legendi at the University Zurich (PD, Privatdozent) |

Board Certification

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|------|---------------------------------|
| 2012 | Swiss Board of Cardiology |
| 2016 | Swiss Board of Nuclear Medicine |

Honorary Appointments and Memberships

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|------------|---|
| since 2013 | Swiss Society of Cardiology |
| since 2014 | Swiss Society of Nuclear Medicine |
| since 2014 | Editorial board member of the Journal of Nuclear Cardiology |
| since 2015 | EACVI HIT (former Club 35) committee member and representative of the EACVI Nuclear Cardiology and Cardiac CT section |
| since 2016 | EANM/ESMIT Working Group for Level 2 education in cardiovascular imaging |

Research Activities

Currently 57 publications in PubMed, including 9 first and 6 last authorships.
<http://www.ncbi.nlm.nih.gov/pubmed/?term=buechel+rr>

Activities as a Reviewer

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|------------|---|
| since 2009 | Reviewer for "European Radiology" |
| since 2012 | Reviewer for "International Journal of Cardiovascular Imaging" |
| since 2015 | Reviewer for "European Heart Journal" , "European Heart Journal – Cardiovascular Imaging", "Journal of Cardiovascular CT", and "Swiss Medical Weekly" |
| since 2016 | Reviewer for "Academic Radiology" |

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3. Previous experience(s) in the EACVI or ESC or your National Bodies?

EACVI HIT committee member and representative for the EACVI Nuclear & CCT section
EACVI HIT ambassador for Switzerland

4. Are you a Board or Nucleus Member of another scientific organisation? If Yes, please specify

No.

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5. Publications (please list 10 max)

1. Gebhard C, **Buechel RR**, Stähli BE, Gransar H, Achenbach S, Berman DS, Budoff MJ, Callister TQ, Chow B, Dunning A, Al-Mallah MH, Cademartiri F, Chinnaiyan K, Rubinshtein R, Marques H, DeLago A, Villines TC, Hadamitzky M, Hausleiter J, Shaw LJ, Cury RC, Feuchtner G, Kim YJ, Maffei E, Raff G, Pontone G, Andreini D, Chang HJ, Leipsic J, Min JK, Kaufmann PA.
Impact of age and sex on left ventricular function determined by coronary computed tomographic angiography: results from the prospective multicentre CONFIRM study.
Eur Heart J Cardiovasc Imaging. 2016 Jul 26. [Epub ahead of print]
2. Nkoulou R, Fuchs TA, Pazhenkottil AP, Kuest SM, Ghadri JR, Stehli J, Fiechter M, Herzog BA, Gaemperli O, **Buechel RR**, Kaufmann PA.
Absolute Myocardial Blood Flow and Flow Reserve Assessed by Gated SPECT with Cadmium-Zinc-Telluride Detectors Using 99mTc-Tetrofosmin: Head to Head Comparison with 13N-Ammonia PET.
J Nucl Med. 2016 Jun 30. [Epub ahead of print] (shared last authorship)
3. Verberne HJ, Acampa W, Anagnostopoulos C, Ballinger J, Bengel F, De Bondt P, **Buechel RR**, Cuocolo A, van Eck-Smit BL, Flotats A, Hacker M, Hindorf C, Kaufmann PA, Lindner O, Ljungberg M, Lonsdale M, Manrique A, Minarik D, Scholte AJ, Slart RH, Trägårdh E, de Wit TC, Hesse B.
EANM procedural guidelines for radionuclide myocardial perfusion imaging with SPECT and SPECT/CT: 2015 revision.
Eur J Nucl Med Mol Imaging. 2015 Nov;42(12):1929-40.
4. Stehli J, Fuchs TA, Bull S, Clerc O, Possner M, **Buechel RR**, Gaemperli O, Kaufmann PA.
Accuracy of Coronary CT Angiography Using a Submillisievert Fraction of Radiation Exposure: Comparison With Invasive Coronary Angiography.
J Am Coll Cardiol. 2014 Aug 26;64(8):772-80
5. Fuchs TA, Stehli J, Bull S, Dougoud S, Clerc OF, Herzog BA, **Buechel RR**, Gaemperli O, Kaufmann PA.
Coronary computed tomography angiography with model-based iterative reconstruction using a radiation exposure similar to chest X-ray examination.
Eur Heart J. 2014 May;35(17):1131-6
6. **Buechel RR**, Sommer G, Bremerich J, Zellweger MJ, Kaufmann BA.
Head-to-head comparison of two- and three-dimensional echocardiographic methods for left atrial chamber quantification with magnetic resonance imaging.
J Am Soc Echocardiogr. 2013 Apr;26(4):428-35.

7. **Buechel RR**, Pazhenkottil AP, Herzog BA, Brueckner M, Nkoulou R, Ghadri JR, Küest SM, Wyss CA, Husmann L, Kaufmann PA.
Prognostic performance of low-dose CT coronary angiography with prospective ECG triggering.
Heart. 2011 Sep; 97(17):1385-90.
8. **Buechel RR**, Husmann L, Herzog BA, Pazhenkottil PA, Nkoulou R, Ghadri JR, Treyer V, von Schulthess P, Kaufmann PA.
Low-dose CT coronary angiography with prospective ECG triggering: Feasibility in a large population.
J Am Coll Cardiol. 2011 Jan; 57: 332-336.
9. **Buechel RR**, Herzog BA, Husmann L, Burger IA, Pazhenkottil PA, Gaemperli O, Treyer V, Valenta I, von Schulthess P, Wyss CA, Kaufmann PA.
Ultrafast nuclear myocardial perfusion imaging on a new gamma camera with semiconductor detector technique: first clinical validation.
Eur J Nucl Med Mol Imaging. 2010 Apr; 37(4): 773-8.
10. Herzog BA, **Buechel RR**, Katz R, Brueckner M, Husmann L, Burger IA, Pazhenkottil PA, Valenta I, Gaemperli O, Treyer V, Kaufmann PA.
Nuclear myocardial perfusion imaging with a novel cadmium-zinc-telluride detector technique: optimized protocol for scan time reduction.
J Nucl Med. 2010 Jan; 51(1):46-51. (shared first authorship)

6. Received Hirsch Index : Year / Index

h-index: **18**

(as of 09/2016, source: Thomson Reuters' Web of Science)

7. Received Impact Factor(s) : Year / IF

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|--|----------------|
| Current cumulative personal impact factor: | 296.742 |
| Received personal impact factor 2016: | 37.321 |
| Received personal impact factor 2015: | 46.239 |
| Received personal impact factor 2014: | 38.579 |

(as of 09/2016, using current journal impact factors)

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8. Why are you interested in joining the EACVI Board (150 words max)?

The request to become committee member and ambassador for the EACVI HIT community (former Club 35) back in 2015 has also offered me the enriching opportunity to repeatedly get an impression of the workings of the Nuclear Cardiology and Cardiac CT section of the EACVI. Witnessing first-hand the dedication of its nucleus members to promote education, research and clinical excellence is what has left a lasting impression with me and what has finally encouraged and prompted me to become part of this section.

I believe that my personal and professional background of being a board certified cardiologist and nuclear medicine physician with clinical and research experience in cardiac CT, nuclear cardiology, echocardiography, and cardiac MRI meets the requirements of a nucleus member and constitutes a resource that I would like to put at disposal while serving the cardiovascular imaging community.

Thank you very much for considering my application.