## Curriculum vitae

Personal information	Name, surname: Martins Kalejs Birth date: 20th December 1981 Address: 13 Pilsonu Str., Riga, Latvia, LV-1002 e-mail: m.kalejs@gmail.com			
Education	2009. – 2014.	Doctoral programme (PhD studies) - Riga Stradins University (RSU), 16 Dzirciema str., Riga, Latvia. Thesis defended on 14th of May 2014: "Optimal Mechanical Parameters for Structural Components of Heart Valve Bioprostheses and Selection of a Matching Substitute Material".		
	2006. –2011.	Residency in cardiac surgery - University of Latvia, 3 Skolas str., Riga, Latvia. (site of training – Pauls Stradins Clinical University Hospital).		
	2000. – 2006.	M.D Riga Stradins University, Faculty of Medicine 16 Dzirciema str., Riga, Latvia.		
Additional long term training ( >1 month)	01.04.2008. – 30.09.2008.	Fellowship in clinical and experimental cardiac surgery. Centre Hospitalier Universitaire Vaudois (CHUV), 46 rue du Bugnon, Lausanne, Switzerland.		
	02.07.2003. – 04.08.2003.	Research work and training in molecular cytogenetics under tutorship of Prof. H. Scherthan. Max Plank Institute for Molecular Genetics, Berlin, Germany.		
	01.07.2002. – 30.08.2002.	Research work and training under tutorship of Dr. J. Arribas. Project: "Identification of proteases involved in the generation of soluble growth factors", Laboratori de Recerca Oncologica, Hospital Universitari Vall d'Hebron, Barcelona, Spain.		
Professional experience	2014 ongoing	Principal investigator – Laboratory of Biomechanical Research, Riga Stradins University, 5 Ratsupites str., Riga, Latvia		
	2011. – ongoing	Staff cardiac surgeon - Centre of Cardiac surgery, Pauls Stradins Clinical University hospital, 13 Pilsonu str., Riga, Latvia.		

- 2006. 2011. Resident in cardiac surgery Centre of Cardiac surgery, Pauls Stradins Clinical University hospital, 13 Pilsonu str., Riga, Latvia.
- 01.04.2008. Clinical consultant during development of Symetis 30.09.2008. ACURATE valve Symetis SA, Chemin de la Venoge 11, Ecublens, Switzerland.
- 01.04.2008. Resident Department of Cardiovascular surgery, Centre 30.09.2008. Hospitalier Universitaire Vaudois (CHUV), 46 rue du Bugnon, Lausanne, Switzerland.
- 2006. 2007. Consultant in molecular diagnostics J.I.M. Ltd., 45 Ilukstes str., Riga, Latvia.
- 2003. 2006. Assistant Laboratory of Tumour Cell, Latvian Biomedical Research and Study Centre, 1 Ratsupites str., Riga, Latvia.

Practical/	Except	•	The European Valve Repair Group: Aortic and Mitral
theorethical	scientific		Valve Repair Workshop, 30-31May, 2014, Kaunas,
courses attended	conferences and their		Lithuania;
	satellite workshops	•	The European Valve Repair Group: Aortic and Mitral

- Valve Repair Workshop, June 29, 2012, Kaunas, Lithuania;
  - European School Cardiac Level B, June 13-18, 2011, Bergamo, Italy;
  - The European Valve Repair Group: Aortic and Mitral Valve Repair Workshop, June 10-11, 2011, Kaunas, Lithuania;
  - European School Cardiac Level A, May 17-22, 2010, Bergamo, Italy;
  - CoreValve Training Programme November 30 December 1, 2009, Lausanne, Switzerland;
  - EDWARDS Sapien Training Programme, September 8-9, 2009, Rouen, France;
  - EACTS Academy: Open and endovascular aortic treatment, March 25-27, 2009, Bergamo, Italy;
  - "Radiation security and quality in medicine", certificate #0640, Riga Technical University, 2009;
  - Heart Valves, MV Repair and Atrial Fibrillation,

November 15, 2008, Budapest, Hungary;

- Heart Lab workshop, October 18-20, 2007, Zurich, Switzerland;
- Applied Science for Cardio-Thoracic Surgeons, April 19-21, 2007, Prague, Czech Republic.

Research<br/>activitiesResearch<br/>projects2014. – ongoing. State research programme in medicine<br/>"Research on personalized monitoring, diagnostics and<br/>treatment of processes caused by atherosclerosis", principal<br/>investigator.

2013. – ongoing. Grant of Latvian Science Council: "Research of cardiothropic viruses", investigator.

2010. – 2014. State research programme in medicine "Research on stem cells and biomaterials. Research on pathogenesis and clinical manifestations of atherosclerosis", investigator, coordinator.

2010. – 2012. ESF research project: "Creation of a new interdisciplinary scientific group for development of nanotechnology based approaches in cell biology with application in medicine", investigator.

State research programme in medicine 2006. - 2009. Project "Advancement of cardiac surgery in Latvia – development of new treatment methods and optimization of existing ones", investigator, coordinator.

Grant of Latvian Academy of Sciences Nr. 05.1634/ 05.1634.1 - "Signalling and repair of DNA double strand breaks and their relation to apoptosis in limfoblastoid cell lines with different radiation sensitivity", assistant.

Grant of Latvian Academy of Sciences Nr. 01.0245 - "Natural genotoxic resistance of tumours: mechanisms and prognosis", assistant.

PatentsMethod to create spatially ordered cell structures from adult<br/>living cells. Vladimirs Kozlovs, Andrejs Karpovs, Viktoija<br/>Priedite, Dace Avotiņa, Pēteris Stradiņš, Martiņš Kalejs,<br/>Vladimirs Kasjanovs, Vladimirs Mironovs. Latvian Patent<br/>Nr. P-12-78, Int. Cl. B01D 35/06, B03C 1/025.

Awards 2012 - Award of Latvian Academy of sciences to young researchers in cardiology for the work: "Studies of the mechanical properties of heart valve bioprostheses".
Award of Latvian Academy of sciences - "Best young scientist of the year 2005", for the work: "Study of mitotic catastrophe and it's consequences in radioresistant tumours, it's putative link with expression of meiotic genes after genotoxic treatment".

Languages	Latvian- native language;
spoken	Russian- fluent;
	English- fluent (TOEFL iBT score 116; IELTS – 7.5);
	German- fluent (Goethe-Zertifikat B2);
	French- basic knowledge.

26th June 2015