



CURRICULUM VITAE

Yvan DEVAUX, PhD

47 years-old, married, two children



**LUXEMBOURG
INSTITUTE
OF HEALTH**
RESEARCH DEDICATED TO LIFE

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CURRENT POSITIONS

Head, [Cardiovascular Research Unit, Luxembourg Institute of Health \(L.I.H.\)](#)

Founder and President of [CARDIOLINC™](#) non-profit organisation: a consortium of >60 research centers worldwide focusing on the role of regulatory RNAs in the heart.

Chair of [CardioRNA COST Action](#): a consortium of 30 EU countries focusing on catalysing transcriptomics research in cardiovascular disease.

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Gustave Courbet High School, Belfort,	B.Sc.	1990	Biological Sciences
University of Medicine, Nancy, France	M.Sc.	1997	Biomedical Sciences
University of Medicine, Nancy, France	Ph.D.	2001	Biology and Health
University of Pittsburgh, PA, USA	Postdoctoral training	2001 - 2004	Biology and Health

DIPLOMAS

2017 « Autorisation à Diriger les Recherches (ADR) »
University of Luxembourg, Luxembourg

2007 « Habilitation à Diriger les Recherches (HDR) »
University Henri Poincare, Nancy, France

2006 University diploma of Animal Experimentation level I
University Henri Poincare, Nancy, France

2001 PhD thesis section Biology and Medical Engineering
University Henri Poincare, Nancy, France

PUBLICATION FACTS

99 publications in peer-reviewed journals, 17 review articles, 5 book chapters.

Cumulative impact factor: 515.334

Citations: 3001

H-index: 29

G-index: 41



POSITIONS & EMPLOYMENTS

2001 – 2004 Research Assistant: Department of Pulmonary and Critical Care Medicine, University of Pittsburgh, PA, USA

2004 – 2005 Research Assistant: INSERM U684, University of Medicine, Nancy, France

2005 – 2007 Researcher : Laboratory of Cardiovascular Research, Centre de Recherche Public de la Santé (CRP-Santé), Luxembourg

2007 – 2016 Associate Head: Laboratory of Cardiovascular Research, Centre de Recherche Public de la Santé (CRP-Santé), Luxembourg.

Since 2017 Head: [Cardiovascular Research Unit](#), Luxembourg Institute of Health (LIH), Luxembourg.

Since 2013 Funder and coordinator: [Cardiolinc™ network](#)

Since 2017 President: [Cardiolinc™ network](#) non-profit organization.

Since 2018 Chair: [CardioRNA COST Action](#): a consortium of 30 EU countries focusing on catalysing transcriptomics research in cardiovascular disease.

RESEARCH GRANTS (Principal Investigator)

- **“Role of the Adenosine-Adenosine A3 Receptor Axis in Left Ventricular Remodeling”**, Ministry of Culture, Higher Education and Research (Luxembourg), 2005-2008. Funding: 760 k€.
- **“Genetic Variants of the Matrix Metalloproteinase -9 Gene in Patients with Acute Myocardial Infarction”**, National Research Fund (Luxembourg), 2007-2009. Funding: 525 k€.
- **“Identification of New Biomarkers of Heart Failure by Proteomic Analysis of Plasma Proteins”**, National Research Fund (Luxembourg), 2009-2010. Funding: 533 k€.
- **“Study of the effects of adenosine on chemotaxis. Implication for left ventricular remodeling”**, Ministry of Culture, Higher Education and Research (Luxbg), 2009-2010. Funding: 413 k€.
- **“MicroRNAs as biomarkers and therapeutic targets of acute cardiac conditions”**, National Research Fund (Luxembourg), 2011-2013. Funding: 747 k€.
- **“Use of microRNAs to prevent the development of heart failure after myocardial infarction”**, Ministry of Higher Education and Research (Luxembourg), 2013-2016. Funding: 2,510 k€.
- **“MicroRNAs to predict neurological outcome after cardiac arrest”**, National Research Fund (Luxembourg), 2015-2016. Funding: 407 k€.
- **“Long noncoding RNAs to predict outcome after cardiac arrest”**, Personalized Medicine Consortium (Luxembourg), 2015. Funding: 50 k€.
- **“Prognostication after cardiac arrest”**, Ministry of Culture, Higher Education and Research (Luxembourg), 2017
- **“Prognostic miRNA-based test for left ventricular remodelling after acute myocardial Infarction”**, Eurostars, 2016-2019. Funding: 300 k€.
- **“Long non-coding RNAs to predict outcome after cardiac arrest”**, National Research Fund (Luxembourg), 2018-2020. Funding: 1,066 k€.
- **“Catalysing transcriptomics research in cardiovascular disease”**
European Union – COST ACTION CA17129



PhD THESIS SUPERVISED (Completed)

Emilie Velot, PhD thesis "Biologie Santé Environnement",
Henri Poincaré University, Nancy, France. 09/2006-12/2008.

Benjamin Haas, PhD thesis "Biologie Santé Environnement",
Henri Poincaré University, Nancy, France. 11/2008-12/2011.

Frédérique Leonard, PhD thesis «Biochimie, biologie cellulaire et microbiologie fondamentale»
Université catholique de Louvain, Belgique. 10/2007-01/2011.

Mélanie Bousquenaud, PhD thesis "Biologie Santé Environnement",
Henri Poincaré University, Nancy, France. 12/2008-07/2012.

Sarah-Lena Puhl, PhD thesis
"Universität des Saarlandes", Saarbrücken, Germany. 02/2008-06/2013.

Emeline Goretti, PhD thesis "Biologie Santé Environnement",
Henri Poincaré University, Nancy, France. 12/2010-10/2014.

Bénédicte Lenoir, PhD thesis « Sciences biomédicales »,
Université de Liège, Belgique. 12/2009-12/2014.

Jennifer Zangrando, PhD thesis " Biology, Health and Environment ",
Henri Poincaré University, Nancy, France. 07/2012-10/2015.

Pascal Stammet, PhD thesis "Medical Sciences",
University of Liège, Belgium. 01/2013-06/2016.

Adeline Boileau, PhD thesis "Biology, Health and Environment",
University of Lorraine, France. 01/2015 – 11/2018.

Torkia Lalem, PhD thesis "Biology, Health and Environment",
University of Lorraine, France. 10/2015 – 11/2018.

PhD THESIS SUPERVISED (Ongoing)

Francesca Maria Stefanizzi, PhD thesis "Biology, Health and Environment",
University of Lorraine, France (08/2018 –)



PhD THESIS EXAMINED

Emilie Velot, PhD thesis "Biologie Santé Environnement",
Henri Poincaré University, Nancy, France. December 2008.

Benjamin Haas, PhD thesis "Biologie Santé Environnement",
Henri Poincaré University, Nancy, France. December 2011.

Mélanie Bousquenaud, PhD thesis "Biologie Santé Environnement",
Henri Poincaré University, Nancy, France. July 2012.

Emeline Goretti, PhD thesis "Biologie Santé Environnement",
Henri Poincaré University, Nancy, France. October 2014.

Bénédicte Lenoir, PhD thesis « Sciences biomédicales »,
Université de Liège, Belgique. January 2015.

Mafalda Galhardo, PhD thesis « Systems biology »,
University of Luxembourg, Luxembourg. August 2015.

Pascal Stammel, PhD thesis "Medical Sciences",
University of Liège, Belgium. June 2016.

Eugenia Belcastro, PhD thesis "Biologie Santé Environnement",
University of Lorraine, Nancy, France. November 2016.

POST-DOC SUPERVISED

Sophie Rodius: 10/2007-11/2009
Genetic Variants of the MMP-9 Gene in Patients with Acute Myocardial Infarction.

Mélanie Kirchmeyer: 01/2008 – 04/2010
Effects of adenosine on mitochondrial energetic metabolism.

Marizela Saric: 01/2010 – 12/2011
Effects of adenosine on the different types of cardiomyocytes death.

Antonio Salgado-Somoza: 04/2015 – 03/2017
MicroRNAs to predict neurological outcome after cardiac arrest.

Clarissa Pedrosa da Costa Gomes: 01/2016 – 12/2018
MicroRNAs to predict outcome after myocardial infarction.



INVITED LECTURES

- 2012**
- MicroRNAs & Single Molecule Biology Europe - 2012 Symposium, Cambridge, UK.
Title of lecture: Biomarkers for the diagnosis of acute myocardial infarction
 - Annual meeting of the GREAT network, 2012, Barcelona, SP.
Title of lecture: MicroRNAs in acute conditions.
- 2013**
- 5th Annual International Congress of Cardiology, 2013, Rome, IT.
Title of lecture: Non-coding RNAs as biomarkers of myocardial infarction.
- 2014**
- Using Biomarkers to Predict Heart Failure & for Disease Management event, 2014 London, UK.
Title of lecture: Recent advances on the use of microRNAs as biomarkers of heart failure.
 - Department of Cardiovascular Sciences, Glenfield Hospital, Leicester, UK, Jan 27th 2014.
Title of lecture: Circulating MicroRNAs as Biomarkers of Acute Myocardial Infarction.
 - Annual meeting of the GREAT network, 2014, Helsinki, FI.
Title of lecture: MicroRNAs in acute conditions. Update 2014.
- 2015**
- 10th Annual Winter Research Meeting on Translational Basic Science -2015, Les Diablerets, CH.
Title of lecture: Long non-coding RNAs as biomarkers.
- 2016**
- International Academy of Cardiology – 21st World Congress on Heart Disease – Annual meeting, 2016, Boston, US.
Title of lecture: Short and long non-coding RNAs as biomarkers of acute cardiac conditions.
https://www.youtube.com/watch?v=_7e7uphpsNU
 - ESC Congress 2016, Rome, IT.
Title of lecture: The circular RNA MICRA is a novel biomarker of left ventricular dysfunction after acute myocardial infarction.
http://congress365.escardio.org/Search-Results?vnextkeyword=devaux#.V_QjE15LIU
 - Servier Laboratories, Paris, FR, Sept 15th, 2016.
Title of lecture: Non-coding RNAs as biomarkers of cardiovascular disease.
 - University of Lorraine, Nancy, FR, Oct 2016. Conference for the Master 2
Title of lecture: RNAES: Non-coding RNAs in cardiac development and pathology.
 - Cardshock study, Helsinki Hospital, FI, Oct 2016.
Title of lecture: Non-coding RNAs as cardiovascular biomarkers.
- 2017**
- Universitätsklinikum Leipzig, DE, April 26th, 2017.
Title of lecture: Non-coding RNAs in cardiovascular disease
- 2019**
- Printemps de la Cardiologie Lille, France, April 2019.
Title of lecture : Transcriptomics in cardiovascular disease
 - 9th international meeting on ageing “Epigenetics – playing with the game of life” Halle Germany, September 2019
Title of lecture: Non-coding RNAs in cardiovascular disease and ageing
XXI LIPID Meeting Leipzig, Germany, 12 – 14 December, 2019.



10 SELECTED PUBLICATIONS

(Selected from 98 peer-reviewed publications)

1. Stammet P, Wagner DR, Gilson G, **Devaux Y**.
[Modeling Serum Level of S100B and Bispectral Index to Predict Outcome After Cardiac Arrest.](#)
*J Am Coll Cardiol.*2013; 62(9):851-858.
2. Vausort M, Wagner DR, **Devaux Y**.
[Long Non-Coding RNAs in Patients with Acute Myocardial Infarction.](#)
*Circ Res.*2014; 115:668-677.
3. Goretti E, Wagner D.R., **Devaux Y**.
[miRNAs as biomarkers of myocardial infarction: a step forward towards personalized medicine?](#)
Trends Mol Med. 2014; 20(12):716-725.
4. **Devaux Y**, Mueller M, Haaf P, Goretti E, Twerenbold R, Zangrando J, Vausort M, Reichlin T, Wildi K, Moehring B, Wagner, DR, Mueller C.
[Diagnostic and prognostic value of circulating microRNAs in patients with acute chest pain.](#)
J Intern Med. 2015;277:260-271.
5. Stammet P, ... **Devaux Y**, ... Nielsen N and the TTM-trial investigators.
[Neuron specific enolase as predictor of death or poor neurological outcome after out-of hospital cardiac arrest and targeted temperature management at 33°C and 36°C.](#)
J Am Coll Cardiol. 2015;65(19): 2104-2114.
6. **Devaux Y**, Zangrando J, Schroen B, Creemers EE, Pedrazzini T, Chang CP, Dorn GW, Thum T, Heymans T for the Cardioline network.
[Long noncoding RNAs in cardiac development and ageing.](#)
Nat Rev Cardiol. 2015; 12(7):415-25.
7. **Devaux Y**, Stammet P, Friberg H, Hassager C, Kuiper M.A., Wise M.P. and Nielsen N.
[MicroRNAs: New Biomarkers and Therapeutic Targets After Cardiac Arrest ?](#)
Crit Care. 2015 Dec;19(1):54.
8. **Devaux Y**, ... Nielsen N and the TTM-trial investigators.
[Circulating miR-124-3p Predicts Outcome After Out of Hospital Cardiac Arrest.](#)
JAMA Cardiol. 2016;1(3):305-313.
9. Vausort M, Salgado-Somoza A, Zhang L, Leszek P, Scholz M, Teren A, Burkhardt R, Thiery J, Wagner DR, **Devaux Y**.
[MICRA: Myocardial Infarction-associated Circular RNA Predicting Left Ventricular Dysfunction.](#)
J Am Coll Cardiol. 2016;68(11):1247-8
10. **Devaux Y**, Creemers EE, Boon RA, Werfel S, Thum T, Engelhardt S, Dimmeler S, Squire I; Cardioline network.
[Circular RNAs in heart failure.](#)
Eur J Heart Fail. 2017 ;19(6):701-709.



JOURNAL REVIEWS

Has reviewed for > 40 different journals including AJP – Heart; Heart; JMCC; Circ Cardiovasc Genet; ATVB; Epigenetics; Hypertension; RNA Biology; JCI; JMCC; EJHF; Physiol Rev; JACC; Nat Commun; Expert Opin Ther Pat; Cardiovasc Res; Circulation; Neurosci Biobehav Rev; Brain Res Bull.

EDITORIAL ACTIVITIES

Editorial Boards member: Canadian Journal of Cardiology; Disease markers; Journal of Cardiology and Therapy; Journal of Geriatric Cardiology

Editor of Special Issues: Guest Editor of Topical Collection in Non-Coding RNA Journal: “Regulatory RNAs in Cardiovascular Development and Disease”; Co-Guest Editor of Special Issue in International Journal of Molecular Science: “RNAs in Cardiovascular Diseases-- CardioRNA EU COST Action“

GRANT APPLICATION REVIEWS

- Guy’s and St Thomas’ Charity (United Kingdom) 2010
- Agence Nationale pour la Recherche (ANR, France) 2012
- Internal Grant Agency of the Ministry of Health (IGA-MH, Czech Republic) 2012
- Israel Science Foundation (Israel) 2013
- Experimental and Translational Medicine Research Committee (Scotland) 2013
- Czech Health Research Council (Czech Republic) 2012, 2015, 2018
- Health Research Council (New Zealand) 2015
- The Wellcome Trust/ DBT India Alliance (UK-India) 2016
- Kidney Research (UK) 2016
- Programme Emergence Ville de Paris (France) 2016
- Newcastle upon Tyne Hospitals NHS Foundation Trust (NuTH) & Newcastle University (UK) 2017
- Biotechnology and Biological Sciences Research Council (UK) 2017
- Earth and Life sciences division, Netherlands Organisation for Scientific Research (NWO, The Netherlands) 2017
- ZonMw Vidi programme (The Netherlands) 2017
- Deutsche Forschungsgemeinschaft (German Research Foundation) 2018
- Fonds Baillet Latour (Fund for Scientific Research–FNRS, Belgium) 2018 Review panel member for COST (Cooperation in Science and Technology) 2019 – ongoing.



SCIENTIFIC ADVISORY BOARDS

- International Academy of Cardiology and World Congress on Heart Disease: 2015 –
- European Research Area Network on Cardiovascular Diseases (ERA-CVD): 2016, 2018
- HFA Winter Meeting on Basic and Translational Research: 2019 – .

MEMBERSHIPS

- American Heart Association (AHA)
- Cardioline™ network
- ESC working group on Myocardial Function
- European Society of Cardiology (ESC)
- European Society of Cardiology (ESC)
- Society of Cardiology of Luxembourg
- GREAT network on acute cardiac conditions
- International Society for Heart Research (ISHR)
- Society of Leukocyte Biology (SLB)

PATENTS

- **BIOMARKERS (VEGFB)**
Inventors : Yvan Devaux, Daniel Wagner, Francisco Azuaje, Mélanie Vausort
WO2010049538 (pending EP, CA, IN, US; granted JP, RU)
- **Compositions and Methods for Evaluating Heart Failure (miRNAs)**
Inventors : Yvan Devaux, Daniel Wagner, Mélanie Vausort, Lu Zhang, Iain B.Squire
WO2014083081 (granted EP, pending US)
- **Biomarkers for heart failure (MICRA)**
Inventors : Yvan Devaux, Mélanie Vausort, Lu Zhang
WO2017046203
- **Diagnostic, prognostic and therapeutic uses of long noncoding RNAs for pathologies and toxicities inducing heart disorders**
Inventors : Hueseyin Firat, Sabrina Danilin, Yvan Devaux, Lu Zhang, Przemyslaw Leszek, Eric Schordan, Samir Ounzain, Thierry Pedrazzini
WO2018229046
- **Novel circular RNAs biomarkers for heart failure (circRNAs-2)**
Inventors : Yvan Devaux, Lu Zhang
WO2018220185