

Curriculum vitae

Name	Ruth Frikke-Schmidt (RFS)	Work	Dept. Clinical Biochemistry, KB 3-01-1
Title	Chief Physician, Professor, Dr. med., PhD.		Rigshospitalet, Blegdamsvej 9 DK-2100 Copenhagen
DOB	April 24th 1967		
Address	Nordre Strandvej 275B, Ålsgårde	Phone	+45 2281 2081 (cell) +45 3545 4348 (work)
Private	Married; one daughter and one son	Email	ruth.frikke-schmidt@regionh.dk

EDUCATION AND ACADEMIC DEGREES

1986: High school graduation (matematisk-fysisk studentereksamen, Rosborg Gymnasium, Vejle).

1988: Start Medical School, University of Copenhagen.

1994: Six months research leave as a medical student.

1995: Graduation from Medical School, University of Copenhagen.

2001: PhD from the University of Copenhagen.

2005: Specialist in Clinical Biochemistry.

2009: DMSc from the University of Copenhagen.

2011: Capital Region of Denmark: Leader talent program.

2015: Capital Region of Denmark: Research leader program.

POSITIONS

Start	End	Position	Department/Hospital
01-07-1995	30-09-1995	Research assistant	Dept. Clin. Biochem., Rigshospitalet
01-10-1995	31-03-1996	Internship	Dept. Internal Medicine, Herlev Hospital
01-04-1996	30-09-1996	Internship	Dept. Ortopaedic Surgery, Herlev Hospital
01-10-1996	31-03-1997	Internship	General Practice, Herlev
01-04-1997	31-12-1997	Registrar	Dept. Clin. Biochem., Herlev Hospital
01-01-1998	31-12-1999	Registrar, spec. training	Dept. Clin. Biochem., Herlev Hospital
01-01-2000	30-09-2001	Senior registrar, spec. training	Dept. Clin. Biochem., Rigshospitalet
01-10-2001	30-04-2002	Maternity leave	
01-05-2002	30-04-2004	Post doc.	Dept. Clin. Biochem., Rigshospitalet
01-05-2004	31-01-2005	Senior registrar, spec. training	Dept. Clin. Biochem., Herlev Hospital
01-02-2005	31-07-2005	Registrar, spec. training	Dept. Hematology, Rigshospitalet
01-08-2005	31-03-2008	Senior scientist/consultant	Dept. Clin. Biochem., Rigshospitalet
01-04-2008	31-07-2012	Consultant	Dept. Clin. Biochem., Rigshospitalet
01-08-2012	Present	Chief Physician	Dept. Clin. Biochem., Rigshospitalet
01-08-2013	31-07-2018	Clin. Research Ass. Professor	Dept. Clin. Medicine, Univ. of Copenhagen
01-04-2017	Present	Deputy Head	Dept. Clin. Medicine, Univ. of Copenhagen
01-08-2018	31-07-2023	Professor	Dept. Clin. Medicine, Univ. of Copenhagen

MOST IMPORTANT GRANTS FROM 2010 AND ONWARDS – PRINCIPAL INVESTIGATOR

2010: 6,004,183 DKK "Genes, age-related disease and longevity in the general population" (Sapere Aude Research Leader grant from the Danish Council for Independent Research | Medical Sciences, contract # 10-081618).

2012: 1,608,000 DKK "APOE, age-related diseases and longevity in the general population" (Research Fund at Rigshospitalet). 3-year research fellowship to PhD student, MD Katrine Laura Rasmussen.

2013: 773,250 DKK "Identifying novel genes for dementia – targeted prevention and treatment" (M.L. Jørgensen & Gunnar Hansen's Fund).

2013: 500,000 DKK "Identifying novel genes for dementia" (Lundbeck Foundation).

2013: 500,000 DKK "Identifying novel genes for dementia" (The Danish Alzheimer Research Foundation).

2014: 120,000 DKK "Genetic variation in clusterin and risk of dementia" (Internationalisation Fund, Dept. Clinical Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, contract # 250138). 12 months scholarship to medical student Liv Tybjerg Nordestgaard.

2014: 1,500,000 DKK "Identifying novel genes for dementia – targeted prevention and treatment" (Research Fund at the Capital Region of Denmark, contract # R139-A5237-B3855).

2015: 550,000 DKK "Improving risk prediction for dementia" (Research Fund at Rigshospitalet). 1-year introductory fellowship to PhD student, MD Ida Juul Rasmussen.

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- 2016: 2,000,000 DKK. "Fluispotter – clinical validation of a new innovative device for wearable automated 24-hour blood sampling" (Innovation Fund Denmark, contract # 5164-00008B). One of four principal investigators. Total grant 5,800,000 DKK.
- 2016: 500,000 DKK. "Identifying novel genes for dementia – improving risk prediction" (Lundbeck Foundation, contract # R211-2015-3977).
- 2016: 900,000 DKK "Risk-prediction score for dementia – identification of high-risk groups and targeted prevention" (Research Fund at Rigshospitalet).
- 2016: 150,000 DKK "Association between functional genetic variants in ABCA7 and risk of dementia and cerebrovascular disease in the general population" (Independent Research fund Denmark, contract # 6120-00075B). 12 months scholarship to medical student Emilie Westerlin Kjeldsen.
- 2017: 773,250 DKK "Identifying novel genes for dementia – targeted prevention and treatment" (M.L. Jørgensen & Gunnar Hansen's Fund).
- 2018: 90,000 DKK "Genetically determined plasma C-Reactive Protein levels and risk of dementia in the general population" (Independent Research Fund Denmark, contract # 124404). 6 months scholarship to medical student Sharif Hegazy.
- 2018: 10,000,000 DKK "Personalised medicine in dementia – risk prediction, prognosis and causal pathways" (Lundbeck Foundation, contract # R278-2018-804).
- 2019: 2,500,000 DKK "The cholesterol constellation" (Leducq Foundation).
- 2019: 3,300,000 DKK "PREADAPT" (Joint Partners in Neurodegenerative Disease (JPND) – under the EU-umbrella).

For 1995-2010 collectively received 6 mill DKK from the Danish Council for Independent Research, The Research Fund at Rigshospitalet, The Research Fund at the Capital Region of Denmark, The Hartmann Foundation, John og Birthe Meyers' Fund, A.P. Møller's and Wife Chastine McKinney Møller's Fund, The Beckett Foundation, Johan Boserup and Lise Boserup's Fund and the Danish Heart Foundation, and various smaller foundations.

SCIENTIFIC CHAIRS

1. Executive Committee member of the European Atherosclerosis Society (EAS). Four-year term starting January 1st 2017.
2. Chairman of the Scientific Programme Committee for the EAS 2020 congress in Geneva. Faculty member of EAS congresses in 2010 (Hamburg), 2011 (Gothenburg), 2012 (Milano), 2015 (Glasgow), 2017 (Prague), and member of the scientific committee in 2014 (Madrid) and 2018 (Maastricht). Invited chairman or invited speaker at these conferences.
3. Chair of the EAS Award Committee. Four-year term 2021-2024.
4. Member of the steering committee for the Copenhagen General Population Study: A study of 110,000 participants from the general population.
5. Member of the steering committee for the Copenhagen Baby Heart study: General population study of 25,000 newborns. RFS and co-workers have developed the logistic 24/7 setup for collection of umbilical cord blood for the biobank.
6. Member of the leadership of Copenhagen Center for Health Technology (CACHET).
7. Member of the organizing committee (board) of the European Lipoprotein Club. Four-year term starting January 1st 2018.
8. Member of the PERSIMUNE biobank/lab Scientific Interest Group leadership.
9. Chairman of the Scandinavian Society for Atherosclerosis Research 2006-2011 and main organizer of five Annual Scandinavian Atherosclerosis Conferences.
10. Editorial board member of the journal *Atherosclerosis*.

OTHER CHAIRS OR COMMITTEE WORK

1. Board member of Johan Boserup and Lise Boserup's Fund.
2. Member of the board of the National Institute of Public Health, University of Southern Denmark.
3. Member of the Innovation Working Group, Faculty of Health and Medical Sciences, University of Copenhagen. Representing the Department of Medicine at the Faculty. Regular meetings on research and innovation topics related to the Faculty.
4. Member of the steering committee for the Bio- and GenomeBank of the Danish Regions (Regionernes Bio- og GenomBank (RBGB)).

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5. Member of the scientific council for the initiative Healthy Brain (projekt Hjernesund ved Alzheimer foreningen).

INTERNATIONAL AND NATIONAL SCIENTIFIC COLLABORATIONS

1. Collaborator on “Genomic Approaches to Common Chronic Disease”, contract # P50-GM065509 from the National Institute of General Medical Science (NIGMS) and National Institute of Health (NIH). Principal investigator: Professor Charles F. Sing, Department of Human Genetics, University of Michigan, Ann Arbor, USA. RFS initiated the collaboration with professor Sing in 2001 with 1 month post doc stay, followed by stays in 2002, 2004, 2005, and 2006. This collaboration has resulted in nine original articles, the latest published in International Journal of Epidemiology (reference 82). This latter work illustrates a new statistical method for precision medicine by identifying high-risk subgroups using a multi-model data mining approach.
2. Collaborator on two European Union grants: “HDLomics”, European Union, Sixth Framework Programme Priority [FP-2005-LIFESCIHEALTH-6], contract # 037631, and “Transcard”, European Union, Seventh Framework Program Priority [FP-HEALTH-2013-INNOVATION-1], contract # 603091.
3. Collaborator in Emerging Risk Factors Collaboration, CHARGE, CARE and GIANT consortia.
4. Collaborating with professor Janne Tolstrup, National Institute of Public Health, University of Southern Denmark. We collaborate on large-scale epidemiological projects including national registries and population studies with special focus on dementia, cardiovascular diseases and other co-morbidities.
5. Member of the steering committee and Danish representative of the European Alzheimer DNA Biobank (EADB). The overarching aim is to discover and describe the genomic architecture of dementia.
6. Collaboration with professor Sarah Huxley, The George Institute for Global Health, University of Sydney, Sydney, and School of Public Health, Curtin University, Perth, Australia, in a consortium on prospective studies to examine the relationship between major vascular risk factors with incident dementia and its subtypes.
7. Collaboration with professor Gunnar Gislason, The Danish Heart Foundation.
8. Collaboration with professor Steen Gregers Hasselbalch, senior scientist Anja Hviid Simonsen, and professor Gunhild Waldemar from the Danish Dementia Research Centre.
9. Collaboration with eight European groups within the PREADAPT consortium. We investigate the complex impact of systemic and local brain inflammation for dementia and thrive to discover novel blood-based biomarkers for risk prediction and prognosis.
10. Collaboration with four American and four European groups within a Leducq Foundation sponsored project entitled “The cholesterol constellation”. We are eight PIs, one from each group.

AWARDS

1998: Young Investigator’s Award, World Heart Federation, XIII World Congress of Cardiology, Rio de Janeiro.
1999: Young Investigator’s Award, Scandinavian Society for Atherosclerosis Research, 6th Annual Scandinavian Atherosclerosis Conference, Humlebæk.
1999: Finalist (1 of 3) in Elizabeth Barrett-Connor Research Award in Epidemiology and Prevention for Investigators in Training, American Heart Association, 72nd Scientific Sessions, Atlanta.
2000: 2nd prize in the Astrup competition; 15,000 DKK, XXVII Nordic Congress of Clinical Chemistry, Bergen.
2001: Boserup award; 75,000 DKK for excellent research in Clinical Biochemistry, Copenhagen.
2007: Award for best oral presentation; 15,000 DKK, Danish Society for Clinical Biochemistry, Copenhagen.
2018: Nikkilä Memorial Lecture, The Scandinavian Society for Atherosclerosis Research.

SUPERVISION OF STUDENTS

Start	Name	Type of student	Role
2004	Maria Stene, MSc	PhD student	Project supervisor
2005	Marianne Nørskov, MSc	PhD student	Project supervisor
2008	Christiane L. Haase, MSc	PhD student	Project supervisor
2009	Jesper Schou, MSc	PhD student	Project supervisor
2010	Mette Christoffersen, MSc	PhD student (now post doc)	Project supervisor
2010	Anders Berg Jørgensen, MD	PhD student	Project supervisor
2010	Louise Stig Hornstrup, MD	PhD student	Project supervisor
2010	Stefan Stender, MD	PhD student	Project supervisor
2012	Katrine Laura Rasmussen, MD	PhD student (now post doc)	Principal supervisor

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2012	Bo Kobberø Lauridsen, MD	PhD student	Project supervisor
2014	Liv Tybjerg Nordestgaard, MD student	MD student (now PhD student)	Principal supervisor
2015	Faiza Qayyum, MD	PhD student	Project supervisor
2016	Ida Juul Rasmussen, MD	PhD student (now post doc)	Principal supervisor
2016	Jesper Qvist Thomassen, MSc	PhD student (now post doc)	Principal supervisor
2016	Emilie Westerlin Kjeldsen, MD student	MD student (now PhD student)	Principal supervisor
2018	Sharif Hegazy	MD student (now MD)	Principal supervisor
2018	Sofie Taageby Nielsen	MD student (now MD)	Principal supervisor
2018	Rikke Mohr Lytsen	MD student	Principal supervisor
2019	Natasja Schytte	MD student	Principal supervisor
2019	Jonas Isaksen, MSc	PhD student	Project supervisor
2019	Francesco Russo, MSc	Post doc, BRIDGE	Mentor

Summary: Current supervision: 3 post docs, 3 PhD students (2 principal and 1 project supervisor), 2 MDs, and 2 MD students. Twelve successfully finalized PhDs (3 principal and 9 project supervisor).

ADDITIONAL SUPERVISION

Official clinical supervisor of three, and day-to-day supervision of >20, MDs under specialist training in Clinical Biochemistry.

EVALUATION OF PHD DISSERTATIONS

År	Name of PhD student	University	Role
2007	Janne Schurmann Tolstrup	University of Copenhagen	Opponent
2008	Majken Karoline Jensen	University of Aarhus	Opponent
2010	Rachel Brace	University of Otago, New Zealand	Opponent
2011	Julie Lee	University of Copenhagen	Opponent
2012	Birgitte Fischer Sode	University of Copenhagen	Opponent
2012	Jacob Stegger	University of Aarhus	Opponent
2013	Jolanta Klovaite	University of Copenhagen	Committee chairman
2014	Peter Brøndum Jacobsen	University of Copenhagen	Committee chairman
2014	Pernille Mathiesen Tørring	University of Southern Denmark	Opponent
2015	Anna Axelsson	University of Copenhagen	Committee chairman
2015	Helle Bergholdt	University of Copenhagen	Committee chairman
2015	Christin Løth Hertz	University of Copenhagen	Committee chairman
2016	Karen Søbey	University of Copenhagen	Committee chairman
2016	Anders Gammelmark	University of Aalborg	Opponent
2017	Anna Tikka	University of Helsinki	Opponent
2018	Lisanne Blauw	University of Leiden	Opponent
2018	Martin Schultz	University of Copenhagen	Committee chairman
2019	Christine Falk Klein	University of Copenhagen	Committee chairman

EVALUATION AND EXAMINATION OF MD/MSc DISSERTATIONS

Start	Name	Type of student	Role
2008	Jesper Schou	MSc thesis	Faculty assigned examiner
2013	Nihada Corajevic	MD MSc thesis	Faculty assigned examiner
2014	Mio Hellstrand	MD MSc thesis	Faculty assigned examiner
2014	Dunia Ahmed	MD MSc thesis	Faculty assigned examiner
2015	Anne Hedengran Nedergaard	MD MSc thesis	Censor
2015	Liv Tybjerg Nordestgaard	MD MSc thesis	Faculty assigned examiner
2017	Emilie Westerlin Kjeldsen	MD MSc thesis	

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2019	Sofie Taageby Nielsen	MD MSc Thesis	Faculty assigned examiner
2019	Sharif Hegazy	MD MSc Thesis	Faculty assigned examiner Faculty assigned examiner

Jesper Schou from Roskilde University. All other students from Faculty of Health and Medical Sciences, University of Copenhagen.

INVITED TALKS FROM 2012 AND ONWARDS

Year	Congress/Institution	Title
2012	The National Research Council member conference, Copenhagen, Denmark	Genes, age-related diseases and longevity in the general population. Can the study of the general population increase our understanding of disease?
2013	Danish Studygroup for diabetes in children, Copenhagen, Denmark	Diabetes, dyslipidemia, and cardiovascular disease – new genetic aspects.
2014	4th Workshop of Genetic Epidemiology, Grainau, Germany	Genomic and epidemiological aspects of dementia in the general population - Key note lecture.
2015	European Atherosclerosis Congress, Glasgow, UK	Genetic regulation of cholesterol transport and risk of cardiovascular disease, diabetes, and dementia.
2015	International Symposium on Atherosclerosis, Amsterdam, Holland	How are cardiovascular disease and dementia linked: A tale of two conditions?
2015	Annual Meeting of the Scandinavian Society of Physiology, Aarhus, Denmark	The use of genetic variation to predict age-related diseases as cardiovascular disease and dementia.
2015	XIX Lipid Meeting, Leipzig, Germany	Link between cardiovascular disease and dementia – genetics and lipid metabolism.
2016	22 nd Annual Scandinavian Atherosclerosis Conference, Humlebæk, Denmark	Lipid genes in the brain – implications for dementia and cerebrovascular disease.
2016	Gordon Research Conference, New Hampshire, USA	Crossroad between dementia and cardiovascular disease – shared genes of lipid metabolism.
2016	American Heart Association, Scientific Sessions, New Orleans, USA	HDL cholesterol concentration and type 2 diabetes risk.
2017	Biomarker Agora 2017, Copenhagen	Key note lecture: New lipid biomarkers for dementia.
2017	American Heart Association , Scientific Sessions, Los Angeles, USA	Shared lipid genes in cardiovascular disease and dementia.
2017	Department of Human Genetics, University of California, Los Angeles, USA	Shared risk factors for cardiovascular disease and dementia – epidemiologic, genetic, and causal aspects.
2018	Scandinavian Society for Atherosclerosis Research	Nikkilä Memorial Lecture – Shared risk factors for cardiovascular disease and dementia – epidemiologic, genetic, and causal aspects.
2018	European Society of Cardiology, Munich, Germany	Should we address other lipid/lipoproteins besides LDL-C?
2018	Hellenic and Turkish Society of Atherosclerosis, Greece	Shared risk factors for cardiovascular disease and dementia – epidemiologic, genetic, and causal aspects.
2019	University of Helsinki, Biomedicum. Featured seminars.	Shared risk factors for cardiovascular disease and dementia – epidemiologic, genetic, and causal aspects.
2019	University of Milan, HDL beyond atheroprotection.	HDL morbidity and mortality.
2019	European Atherosclerosis Society, Maastricht, The Netherlands	Genes, phenotypes or epigenetics?

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2019	Dansk Selskab for Klinisk Biokemi, Århus, Danmark.	Kausalitet i præcisionsmedicin – strategier med brug af internationale og nationale kohorter.
2020	Turkish Society of Cardiology, Antalya, Turkey. Joint session with European Atherosclerosis Society.	Genetics determine our risk of CVD.
2020	European Society of Cardiology, virtual	Atherogenic lipoproteins from newborn to adulthood – impact on lifetime risk.
2020	Austrian Atherosclerosis Society, virtual	Impact of cardiovascular risk factors and polygenetic risk score for dementia.
2020	European Atherosclerosis Society, virtual	The role of triglyceride-rich lipoproteins in atherosclerosis.
2020	Hellenic Atherosclerosis Society, virtual	What is new in genetics?
2021	Lipidklubben, Norway, virtual	Impact of lipids, genetics and cardiovascular risk factors for dementia and vascular disease.
2021	Neurology department, Rigshospitalet	Mod målrettet demensforebyggelsen – kardiovaskulære risikofaktorer, biomarkører og genetik.
2021	European Society of Cardiology, virtual	Preventing risk factors from occurring in early childhood – Impact on ASCVD and related diseases.

Additional >150 presentations at international congresses.

PRE- AND POST GRADUATE TEACHING

Formal pedagogical training

Introduction to University Pedagogy course (37 hours, Faculty of Science, University of Copenhagen).

Pregraduate

Continuously from 1997 and onwards teaching medical students. 1997-2000 Herlev Hospital: 3-5 lectures per semester for medical students in Clinical Biochemistry (e.g. hematology, toxicology, PH, ions). 2000-2010 Rigshospitalet: 3-5 lectures per semester for medical students in Clinical Biochemistry (cardiac markers, kidney- and liver parameters, PH, ions, atherosclerosis, diet and cholesterol metabolism). From 2009-2013 teaching MSc students in molecular medicine and human biology in hematology, genetic concepts and cardiovascular pathology. Since 2014 organized the Clinical Biochemistry part of the course in Diagnostics together with professors and associate professors in Clinical Biochemistry and matching exam on the 6th semester bachelor for medical students at the University of Copenhagen. Since 2017 teacher on a course in clinical technical medicine.

Postgraduate

National Board of Health: Course leader at "Cardiovascular Diseases" in 2005 and 2009, teacher at "Course in Molecular Biology" in 2014, as well as teacher at "The Professional Role of a Clinical Biochemist/Laboratory Doctor" in 2015 for MDs under specialist training in Clinical Biochemistry. Teaching at the PhD course "Genetic Epidemiology" in 2006 and 2008, the PhD course "Atherothrombosis" in 2010, the PhD course "Cardiovascular Physiology" in 2012, and the PhD course "Lipids and Atherosclerosis" in 2014 all at the University of Copenhagen.

EVALUATOR OF SCIENTIFIC POSITIONS

Associate professor, Aalborg University (1).

Professor, University of Copenhagen (2 full, 1 affiliate).

Assistant professor, University of Southern Denmark (1).

AD HOC REVIEWER – SCIENTIFIC ARTICLES

Nature Rev Cardiol, British Medical Journal, Lancet Diabetes Endocrinol, European Heart Journal, Journal of the American College of Cardiology, Circulation, Diabetes Care, Alzheimer's and Dementia, Arterioscler Thromb Vasc Biol, Hum Mol Genet, Cir Cardiovasc Genet, J Intern Med, J Clin Endocrinol Metab, PlosOne, Atherosclerosis, and Ann Hum Genet.

AD HOC REVIEWER – FUNDING BODIES

Curriculum vitae

Welcome Trust, UK, The Netherlands Organisation for Health Research and Development (ZonMw), The Dutch Diabetes Research Foundation, ERA-CVD-JTC (EU funding body), Medical Research Council, UK, La Caiza Foundation, Spain.

NATIONAL AND INTERNATIONAL MEDIA APPEARANCE

2015: Publication of *Plasma levels of apolipoprotein E and risk of dementia in the general population in Annals of Neurology* 2015;77:301-311. Interviewed in TV2-nyhederne.

2017: Publication of *Plasma apolipoprotein E levels and risk of dementia – A Mendelian randomization study of 106,562 individuals in Alzheimer’s & Dementia* 2018;14:71-80. Interviewed in DR-nyhederne. Radiointerviews were continuously broadcasted throughout the day in DR P1 and P4. Interviewed by Ritzau, and the story subsequently broadly published by national and local newspapers and online newsmedia.

2020: Publication of *Impact of cardiovascular risk factors and genetics on 10-year absolute risk of dementia: risk charts for targeted prevention in European Heart Journal* 2020;41:4024-4033. Live interview on TV2 News and radiointerview in P1. The study was subsequently broadly published by national and international newspapers and online newsmedia. Young Investigator Awards from the European Atherosclerosis Society and the Scandinavian Society for Atherosclerosis Research has been awarded for this paper to the first author, Ida Juul Rasmussen, with subsequent press releases and media coverage.

COMMUNICATION AND OUTREACH

Communicating research highlights from the journal *Atherosclerosis* (journal of the European Society of Atherosclerosis) to the UNIVADIS medical science internet portal that makes the news assessable in seven different languages.

DISSERTATIONS

THESIS DOCTOR PHILOSOPHIAE (ph.d.):

Frikke-Schmidt R. *Context dependent and invariant associations between APOE genotype and levels of lipoproteins and risk of ischemic heart disease, Copenhagen 2001, and Scand J Clin Lab Invest* 2000;60 Suppl 233:3-26.

THESIS DOCTOR MEDICINAE (dr. med.):

Frikke-Schmidt R. *Genetic variation in the ABCA1 gene, HDL cholesterol, and risk of ischemic heart disease in the general population, Copenhagen 2009, and Atherosclerosis* 2010;208:305-316.

PUBLICATION SUMMARY

ORCID: 0000-0003-4084-5027

In total 163 publications (144 original articles, 8 reviews, 10 letters/commentaries, 1 patent).

Authorship: 15 first authorships, 26 second, and 28 last authorships.

H-index (Web of Science): 49 (search terms: Frikke-Schmidt R* OR (Rader AND Schmidt RF) OR Frikkeschmidt R*).

Number of citations: 17,986 (17,620 without self-citations).

Average impact factor for original articles: 15.04.

Number of original articles with impact factor above 20: 40.

Number of original articles with impact factor between 10 and 20: 15.